Pro-face Operator Interface and Controller Products

Product Guide

The GP/GLC Series of HMI operator interfaces feature:

A) Real-time monitoring of discrete and process automation system information
B) Recipe/Batch Management
C) Scripting to create custom applications
D) Data Logging
E) Alarm Management Active and Historical
F) Data sharing and Web-enabled Capabilities
G) Built-in Logic Controller for GLC units
H) Built-in Ethernet for GP/GLC2000 Series

From Simple HMI to Integrated Control
Complete Operator Interface Scalability

XYCOM™
a PRO-FACE America Company

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ST SERIES

Powerful Data Sharing HMI Graphical Touch Screens

- Amber Touch Screens with Six configurable functions buttons
- Lowest Cost HMIs
- Select unit based on your Serial or Ethernet communication requirements

3.8" LOW COST LED BACKLIT GRAPHIC TOUCH SCREEN

ST40x Series Amber LCD UL Listed Class I Div 2

Select unit based on RS-422/485, RS-232 or Siemens MPI 485 Serial Requirements

Selection Guide	ST400	ST401	ST402
3.8" 320 x 240 Resolution	√	√	√
Dual Color LED Backlit Amber/Red	No	No	No
RS-422/RS-485 Com Port 9 pin D-sub	√		
RS-232 Port 9 pin D-sub		√	
Siemens MPI 485 Interface Only			√
Secondary Port for scripting or Bar Code Reader input (RS-422 type Serial Port, not for PLC interfacing)			√
Supports Communication Modules	No	No	No
Compact Flash Socket	No	No	No
Application Memory	640KB	640KB	640KB
Certifications : CE, UL/cUL CL I Div 2	√	√	√
Software Compatibility	GPPro-03	GPPro-03	GPPro-03

Order Number	Description
ST400-AG41-24V	3.8" Amber, 640KB Mem. 1 RS-422/485 Serial Port, 24VDC, UL, CE
ST401-AG41-24V	3.8" Amber, 640KB Mem. 1 RS-232 Serial Port, 24VDC, UL, CE
ST402-AG41-24V	3.8" Amber, 640KB Mem. 1 Siemens MPI485 Port, Bar code port, 24V, UL, CE

3.8" ETHERNET AND RS-232 12V POWERED GRAPHIC TOUCH SCREEN

ST403 Ethernet and RS-232/RS-422 Serial communications

ST401 RS-232 12V Powered

Selection Guide	ST401 12V-XY1	ST403 Ethernet
3.8" 320 x 240 Resolution	√	√
Dual Color LED Backlit Amber/Red		√
Ethernet 10-BaseT		√
RS-232 Port 9 pin D-sub Only	√	
RS-232/RS-485 Secondary Port 9 pin D-sub Software configurable for PLC interfacing		√
Supports Communication Modules	No	No
Compact Flash Socket	No	No
Certifications : CE, UL/cUL CL I Div 2	√	√
Software Compatibility	Pro-Designer V4.2.10	GPPro-03 Pro-Designer V4.2.10

Order Number	Description
ST401-AG41-12V-XY1	3.8" Amber, ***Pro-Designer Only***, 1 RS-232 Port, 12VDC
ST403-AG41-24V	3.8" Dual Color Amber/Red LED, Ethernet, RS-232/422 Port, 24V, UL, CE

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ST SERIES

Powerful Data Sharing HMI Graphical Touch Screens

- Amber Touch Screens with Six configurable functions buttons
- Lowest Cost HMI's
- Select unit based on your Serial or Ethernet communication requirements

ST40x SERIES QUICK START KITS

ST40x Quick Start Kits

Includes:

- ST40x unit
- GP-Pro 03 HMI Development Software (Latest Release)
- GPW-CB02 RS-232 or GPW-CB03 USB Download Cable
- Generic or PLC specific communication Cable

ST40x QUICK START KITS

Order Number	Description
QS400-AG41-24V-CB02	ST400 w/ GP PRO-03, RS-232 Download Cable and HMI-CAB-ST001
QS400-AG41-24V-CB03	ST400 w/ GP PRO-03, USB Download Cable and HMI-CAB-ST001
QS401-AG41-24V-CB02	ST401 w/ GP PRO-03, RS-232 Download Cable and HMI-CAB-ST001
QS401-AG41-24V-CB03	ST401 w/ GP PRO-03, USB Download Cable and HMI-CAB-ST001
QS401-AG41-24V-CB03-ST106	ST401 w/ GP PRO-03, USB Cable and HMI-CAB-ST106
QS401-AG41-24V-CB03-ST52	ST401 w/ GP PRO-03, USB Cable and HMI-CAB-ST52
QS402-AG41-24V-CB02	ST402 w/ GP PRO-03, RS-232 Download Cable and HMI-CAB-ST001
QS402-AG41-24V-CB03	ST402 w/ GP PRO-03, USB Download Cable and HMI-CAB-ST001
QS403-AG41-24V-CB03-ETH	ST403 w/ GP PRO-03, CB03 USB Download Cable and HMI-CAB-ETH

ST40x PLC CABLES

Order Number	Description
HMI-CAB-ST001	Generic PLC communication cable: Connects to ST40x Serial Port and has 9 conductor open ended wires for connecting to 3rd party screw terminal devices.
HMI-CAB-ST52	Cable ST401 to AB SLC503/504, Siemens S7-300 MPI, 10 feet
HMI-CAB-ST52-30x	Cable ST401 to AB SLC503/504, Siemens S7-300 MPI, 30 feet
HMI-CAB-ST52-50x	Cable ST401 to AB SLC503/504, Siemens S7-300 MPI, 50 feet
HMI-CAB-ST106	Micrologix Cable ST401, ST403 to Rockwell Micrologix PLC
CA3-CBLSYS-01	RS-232C cable, 5M, connects to ST401 to Omron SYSMAC
CA3-CBL232/5M-01	RS-232C cable, 5M, connects to ST401, other end is 25pin D-sub male
CA3-CBL422/5M-01	RS-422 cable, 5M, connects ST400/402, other end is 6 wire spade lug
CA3-CBLFX/1M-01	MITSUBISHI FX Series cable, 1M, connects ST400 to FX via 8 pin mini-DIN
CA3-CBLFX/5M-01	MITSUBISHI FX Series cable, 5M, connects ST400 to FX via 8 pin mini-DIN
CA3-CBLA-01	MITSUBISHI A Cable, RS-422, 5M, connects ST400 to MITSUBSHI A PLC
CA3-CBLQ-01	MITSUBISHI Q Connection RS-232C cable, 5M, use with ST401

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GP2000 Series
Full Featured HMI
Graphic Touch Screens

- **Monochrome, STN, TFT Operator Interfaces**
- **Ethernet**
- **Siemens MPI Support**
- **RS-232/RS-422 Ports**
- **Compact Flash**
- **Supports Optional Communication Modules**
- **Compatible with GP-PRO C-Package03 Software**
- **Compatible with Pro-Designer Software**

NOTE: This section includes GP477R models which are not compatible with Pro-Designer software.

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Powerful Data Sharing HMI Graphical Touch Screens

- Monochrome, Amber, STN and TFT Full Featured HMI Solutions
- Available in 5.7", 7.4", 9.1", 10.4" and 12.1" Screen sizes
- Largest Selection of Protocols available!

FACTORY GATEWAY HMI AND SERIAL TO ETHERNET PROTOCOL CONVERTER

- **PLC To PLC Protocol Converter (Rockwell PLC to Omron PLC for example)**
- **Supports Peer to Peer Communications via one Gateway to another**
- **Ideal for factory retrofits (interfacing 3rd party serial devices to Ethernet communication networks)**

Selection Guide	FGW
Create HMI screens and view remotely via Pro-Server and GP-Web Software	√
Convert One vendor PLC protocol to another vendors	√
Peer to Peer Communication via FGW to another FGW	√
Ethernet 10-BaseT	√
One RS-232/RS-422 Com Port 25pin D-sub	√
Application Memory	4MB
Certifications : CE, UL/cUL	√
Software Compatibility	GPPro-03, Pro-Designer

Order Number	Description
FGW-SE41-24V	Ethernet w/ RS-232/RS-422 Serial Port, 4MB mem, 24VDC, UL/cUL, CE

UL certifications are general safety certifications for non-hazardous locations

See Panel Cutout Dimensions Near back of Book

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Powerful Data Sharing HMI Graphical Touch Screens

- Monochrome, Amber, STN and TFT Full Featured HMI Solutions
- Available in 5.7", 7.4", 9.1", 10.4" and 12.1" Screen sizes
- Largest Selection of Protocols available!

5.7" LOW COST GRAPHIC TOUCH SCREEN

GP37W2/W3 Series 5.7" Blue/White LCD (Serial Protocols Only)
Low Cost Basic Feature Serial Protocol HMIs

Selection Guide	GP37W2	GP37W3
5.7" 320 x 240 Resolution	√	√
Ethernet 10-BaseT	No	No
RS-232/RS-422 Com Port 25pin D-sub	√	√
Secondary RS-232 Port 9 pin D-sub	No	No
Supports Communication Modules	No	No
Compact Flash Socket	No	No
Application Memory	1MB	4MB
Certifications : CE, UL/cUL	√	√
Software Compatibility	GPPro-03	Pro-Designer

Order Number	Description
GP37W2-BG41-24V	6" Blue/White LCD, 1 Serial port, 1MB mem 24VDC, UL, CE
GP37W3-BG41-24V	6" Blue/White LCD, 1 Serial port, 4MB memory 24VDC, UL, CE

UL certifications are general safety certifications for non-hazardous locations

5.7" GRAPHIC TOUCH SCREEN

GP2300/01 Series 5.7" Monochrome and Color STN, TFT LCD
UL Recognized Class I Div 2

Selection Guide	GP2300 Models	GP2301 Models
5.7" 320 x 240 Resolution	√	√
Ethernet 10-BaseT	√	
RS-232/RS-422 Com Port 25pin D-sub	√	√
Secondary RS-232 Port 9 pin D-sub	√	
Supports Communication Modules	√	√
Compact Flash Socket	√	√
Application Memory[1]	2MB	1MB
Certifications : CE, UL/cUL CL I Div 2	√	√
Software Compatibility	GPPro-03 Pro-Designer	GPPro-03 Pro-Designer

Order Number	Description
GP2300-TC41-24V	5.7" TFT Color, Ethernet, CF, 2 Serial, 2MB mem, 24VDC, UL CL I Div 2, CE
GP2300-SC41-24V	5.7" STN Color, Ethernet, CF, 2 Serial, 2MB mem, 24VDC, UL CL I Div 2, CE
GP2300-LG41-24V	5.7" Mono, Ethernet, CF, 2 Serial, 2MB memory, 24VDC, UL CL I Div 2, CE
GP2301-TC41-24V	5.7" TFT Color, CF, 1 Serial, 1MB memory, 24VDC, UL CL I Div 2, CE
GP2301-SC41-24V	5.7" STN Color, CF,1 serial, 1MB memory, 24VDC, UL CL I Div 2, CE
GP2301-LG41-24V	5.7" Monochrome, CF, 1 Serial, 1MB memory, 24VDC, UL CL I Div 2, CE

[1] Memory size refers to GP-PRO 03 Applications.

See Panel Cutout Dimensions Near back of Book

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Powerful Data Sharing HMI Graphical Touch Screens

- Monochrome, Amber, STN and TFT Full Featured HMI Solutions
- Available in 5.7", 7.4", 9.1", 10.4" and 12.1" Screen sizes
- Largest Selection of Protocols available

7.4" GRAPHIC TOUCH SCREENS

GP2400/01 Series 7.4" Color TFT LCD Ethernet
UL Listed Class I Div 2

Selection Guide	GP2400 Models	GP2401 Models
7.4" TFT Color 640 x 480 Resolution	√	√
Ethernet 10-BaseT	√	
RS-232/RS-422 Com Port 25pin D-sub	√	√
Secondary RS-232 Port 9 pin D-sub	√	
Supports Communication Modules	√	√
Compact Flash Socket	√	√
Application Memory[1]	4MB	2MB
Sound Output	√	
Certifications : CE, UL/cUL CL I Div 2	√	√
Software Compatibility	GPPro-03 Pro-Designer	GPPro-03 Pro-Designer

Order Number	Description
GP2400-TC41-24V	7.4" TFT Color, Ethernet, CF, 2 Serial, 4MB mem, 24VDC, UL CL I Div 2, CE
GP2401-TC41-24V	7.4" TFT Color, 1 serial, CF, 2MB mem, 24VDC, UL CL I Div 2, CE

[1] Memory size refers to GP-PRO 03 Applications.

9.1" GRAPHIC TOUCH SCREENS

GP477R Series 9.1" Electroluminescent Amber LCD Serial Only
24V Unit is UL Listed Class I Div 2

Selection Guide	GP477R 24VDC	GP477R 120VAC
9.1" Amber Color 640 x 400 Resolution	√	√
Ethernet 10-BaseT	No	No
RS-232/RS-422 Com Port 25pin D-sub	√	√
Secondary RS-232 Port 9 pin D-sub	No	No
Supports Communication Modules	√	√
Compact Flash Socket	No	No
Application Memory	2MB	2MB
Sound Output	No	No
Certifications : CE, UL/cUL CL I Div 2	√	No
Software Compatibility	GPPro-03	GPPro-03

Order Number	Description
GP477R-EG41-24VP	9.1" Amber EL, 1 Serial port, 2MB memory, 24VDC, UL CL I Div 2, CE
GP477R-EG11	9.1" Amber EL, 1 Serial port, 2MB memory, 120VAC

See Panel Cutout Dimensions Near back of Book

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Powerful Data Sharing HMI Graphical Touch Screens

- Monochrome, Amber, STN and TFT Full Featured HMI Solutions
- Available in 5.7", 7.4", 9.1", 10.4" and 12.1" Screen sizes
- Largest Selection of Protocols available

10.4" GRAPHIC TOUCH SCREENS

GP2500/01 Series 10.4" Monochrome /Color STN, TFT LCD
UL Listed Class I Div 2

Selection Guide	GP2500 Models	GP2501 Models
10.4" 640 x 480 Resolution	√	√
Ethernet 10-BaseT	√	
RS-232/RS-422 Com Port 25pin D-sub	√	√
Secondary RS-232 Port 9 pin D-sub	√	
Supports Communication Modules	√	√
Compact Flash Socket	√	√
Application Memory[1]	4MB	2MB
Sound Output	√	
Optional Video Support	√	
Certifications : CE, UL/cUL CL I Div 2	√	√
Software Compatibility	GPPro-03 Pro-Designer	GPPro-03 Pro-Designer

Order Number	Description
GP2500-TC41-24V	10.4" TFT Color, Ethernet, CF, 2 Serial, 4MB mem, 24VDC, UL CL I Div 2, CE
GP2500-TC11	10.4" TFT Color, Ethernet, CF, 2 Serial, 4MB mem, 120VAC UL CL I Div 2, CE
GP2500-SC41-24V	10.4" STN Color, Ethernet, CF, 2 Serial, 4MB mem, 24VDC UL CL I Div 2, CE
GP2500-LG41-24V	10.4" Mono, Ethernet, CF, 2 Serial, 4MB mem, 24VDC, UL CL I Div 2, CE
GP2501-TC11	10.4" TFT Color, 1 Serial, CF, 2MB mem, 120VAC, UL CL I Div 2, CE
GP2501-SC11	10.4" STN Color, 1 Serial, CF, 2MB mem, 120VAC, UL CL I Div 2, CE
GP2501-LG41-24V	10.4" Mono, 1 Serial, CF, 2MB mem, 24VDC, UL Class IDiv 2, CE

12.1" GRAPHIC TOUCH SCREENS

GP2600/01 Series 12.1"Color TFT LCD Units
UL Listed Class I Div 2

Selection Guide	GP2600 Models	GP2601 Models
12.1" TFT 800 x 600 Resolution Color	√	√
Ethernet 10-BaseT	√	
RS-232/RS-422 Com Port 25pin D-sub	√	√
Secondary RS-232 Port 9 pin D-sub	√	
Supports Communication Modules	√	√
Compact Flash Socket	√	√
Application Memory[1]	4MB	4MB
Sound Output	√	
Optional Video Support	√	
Certifications : CE, UL/cUL CL I Div 2	√	√
Software Compatibility	GPPro-03 Pro-Designer	GPPro-03 Pro-Designer

Order Number	Description
GP2600-TC41-24V	12.1" TFT, 2 serial, Ethernet, CF, 4MB mem, 24VDC, UL CL I Div 2, CE
GP2600-TC11	12.1" TFT, 2 serial, Ethernet, CF, 4MB mem, 120VAC, UL CL I Div 2, CE
GP2601-TC11	12.1" TFT, 1 serial, CF, 4MB mem, 120VAC, UL CL I Div 2, CE

[1] Memory size refers to GP-PRO 03 Applications.

See Panel Cutout Dimensions Near back of Book

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Powerful Data Sharing HMI Graphical Touch Screens

- Monochrome, Amber, STN and TFT Full Featured HMI Solutions
- Available in 5.7", 7.4", 9.1", 10.4" and 12.1" Screen sizes
- Largest Selection of Protocols available

5.7" AND 6.5" HANDHELD GRAPHIC TOUCH SCREEN

GP2301H and GP2401H Monochrome and STN, TFT Color LCD

GP2401H TFT

GP2301H Mono or STN

Selection Guide	GP2301H Models	GP2401H Models
5.7" 320 x 240 Resolution	√	
6.5" 640 x 480 Resolution		√
Ethernet 10-BaseT	No	No
RS-232/RS-422 Com Port	√	√
3-position enable switch & vibration Alert	√	√
Two Open Collector Discrete Output	√	√
Two normally closed one normal open Emergency Shutdown Switch Output	√	√
One Buzzer Output	√	√
Compact Flash Socket	√	√
Application Memory	1MB	2MB
Certifications : CE, UL/cUL Recognized	√	√
Software Compatibility	GPPro-03 Pro-Designer	GPPro-03 Pro-Designer

Order Number	Description
GP2301H-LG41-24V	5.7" Mono LCD, CF, 1MB Mem, 320x240 res, 24VDC, UL, CE
GP2301H-SC41-24V	5.7" STN Color LCD CF, 1MB Mem, 320x240 res., 24VDC, UL, CE
GP2401H-TC41-24V	6.5" TFT Color LCD, CF, 2MB Mem, 640x480 res., 24VDC, UL, CE

GP2000H HANDHELD CABLES AND ACCESSORIES

Order Number	Description
GP2000H-EMGD11	Replacement emergency switch guard for GP2000H
GP2000H-STRAP11	Neck Strap for GP2000H
GP2000H-C232-3M	RS-232 cable, 3m, connects to handheld, other end is open wires
GP2000H-C232-10M	RS-232 cable, 10m, connects to handheld, other end is open wires
GP2000H-D232-3M	RS-232 cable, 3m, D-Sub connector, connects handheld to GP2000H-AP232
GP2000H-D232-10M	RS-232 cable, 10m, D-Sub connector, connects handheld to GP2000H-AP232
GP2000H-AP232	RS-232 Breakout adaptor for use GP2000H –D232-xx cables
GP2000H-C422-3M	RS-422 cable, 10m, connects to handheld, other end is open wires
GP2000H-C422-10M	RS-422 cable, 10m, connects to handheld, other end is open wires
GP2000H-D422-3M	RS-422 cable, 3m, D-Sub connector, connects handheld to GP2000H-AP232
GP2000H-D422-10M	RS-422 cable, 10m, D-Sub connector, connects handheld to GP2000H-AP232
GP2000H-AP422	RS-422 Breakout adaptor for use GP2000H –D422-xx cables
GP2000H-AP70CB-D232-3M	RS-232 cable, 3m, connects GP2000H to GPH70 AP232-O Adapter
GP2000H-AP70CB-D422-3M	RS-422 cable, 3m, connects GP2000H to GPH70 AP232-O Adapter

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GLC2000 Series
Full Featured HMI
Graphic Logic Controllers

- **5.7, 7.4, 10.4, 12.1 TFT Touch Screens**
- **Ethernet**
- **Siemens MPI Support**
- **RS-232/RS-422/RS485 Ports**
- **Compact Flash**
- **Distributed I/O modules Support**
- **Compatible with GP-PRO 03 Software**

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GLC2000 Series High Performance Graphic Logic Controllers

- All-In-One Box Full Featured HMI/PLC Solution
- Ideal for Distributed I/O Monitoring and Control Applications
- Combine with FN I/O modules to fit application requirements

5.7" GRAPHIC LOGIC CONTROLLER (Distributed I/O)

GLC2300 Series 5.7" Monochrome/TFT (Use with FN-xxx I/O Modules)
Built-in Logic Controller, Ethernet, UL Recognized Class I Div 2

Selection Guide	GLC2300 Models
5.7" 320 x 240 Resolution	√
Ethernet 10-BaseT	√
RS-232/RS-422 Com Port 25pin D-sub	√
Secondary RS-232 Port 9 pin D-sub	√
Supports Communication Modules	√
Compact Flash Socket	√
Application Memory	2MB
Support Flex Network Modules FN-xxx	√
Certifications : CE, UL/cUL CL I Div 2	√
Software Compatibility	GPPro-03

Order Number	Description
GLC2300-TC41-24V	5.7" TFT Color, Integrated Logic Control, Ethernet, CF, 2 Serial, 24VDC, UL, CE
GLC2300-LG41-24V	5.7" Mono, Integrated Logic Control, Ethernet, CF, 2 Serial, 24VDC, UL, CE

7.4" GRAPHIC LOGIC CONTROLLER (Distributed I/O)

GLC2400 Series 7.4" Color TFT (Use with FN-xxx I/O Modules)
Built-in Logic Controller, Ethernet, UL Listed Class I Div 2

Selection Guide	GLC2400 Models
7.4" TFT 256 Color 640 x 480 Resolution	√
Ethernet 10-BaseT	√
RS-232/RS-422 Com Port 25pin D-sub	√
Secondary RS-232 Port 9 pin D-sub	√
Supports Communication Modules	√
Compact Flash Socket	√
Application Memory	4MB
Sound Output	√
Support Flex Network Modules FN-xxx	√
Certifications : CE, UL/cUL CL I Div 2	√
Software Compatibility	GPPro-03

Order Number	Description
GLC2400-TC41-24V	7.4" TFT Color, Integrated Logic Control, Ethernet, CF, 2 Serial, 24VDC, UL, CE

See Panel Cutout Dimensions Near back of Book

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- Combine with FN I/O modules to fit application requirements

10.4" GRAPHIC LOGIC CONTROLLER (Distributed I/O)

GLC2500 Series 10.4" Color TFT (Use with FN-xxx I/O Modules)
Built-in Logic Controller, Ethernet, UL Class I Div 2

Selection Guide	GLC2500 24VDC	GLC2500 120VAC
10.4" 640 x 480 Resolution	√	√
Ethernet 10-BaseT	√	√
RS-232/RS-422 Com Port 25pin D-sub	√	√
Secondary RS-232 Port 9 pin D-sub	√	√
Supports Communication Modules	√	√
Compact Flash Socket	√	√
Application Memory	4MB	4MB
Support Flex Network Modules FN-xxx	√	√
Sound Output	√	√
Optional Video Support	√	√
Certifications : CE, UL/cUL CL I Div 2	UL Listed	UL Recognized
Software Compatibility	GPPro-03	GPPro-03

Order Number	Description
GLC2500-TC41-24V	10.4" TFT Color, Integrated Logic Control, Ethernet, CF, 2 Serial, 24VDC, UL
GLC2500-TC41-200V	10.4" TFT Color, Integrated Logic Control, Ethernet, CF, 2 Serial, 120VAC UL

12.1" GRAPHIC LOGIC CONTROLLER (Distributed I/O)

GLC2600 Series 12.1" Color TFT (Use with FN-xxx I/O Modules)
Built-in Logic Controller, Ethernet, UL Class I Div 2

Selection Guide	GLC2600 24VDC	GLC2600 120VAC
12.1" TFT 800 x 600 Resolution Color	√	√
Ethernet 10-BaseT	√	√
RS-232/RS-422 Com Port 25pin D-sub	√	√
Secondary RS-232 Port 9 pin D-sub	√	√
Supports Communication Modules	√	√
Compact Flash Socket	√	√
Application Memory	4MB	4MB
Support Flex Network Modules FN-xxx	√	√
Sound Output	√	√
Optional Video Support	√	√
Certifications : CE, UL/cUL CL I Div 2	UL Listed	UL Recognized
Software Compatibility	GPPro-03	GPPro-03

Order Number	Description
GLC2600-TC41-24V	12.1" TFT Color, Integrated Logic Control, Ethernet, CF, 2 Serial, 24VDC, UL
GLC2600-TC41-200V	12.1" TFT Color, Integrated Logic Control, Ethernet, CF, 2 Serial, 120VAC UL

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GLC150 Series
Stand-Alone HMI
Graphic Logic Controllers

LT Series(GLC150) Product Summary:

These units are intended for low cost stand-alone HMI Controller applications.

Some models feature a Flex Network interface, which support the various FN-xxxx distributed analog and discrete I/O modules. Combine GLC150 units supporting a Flex Network interface along with any combination of the FN-xxxx modules to match the I/O requirements of your application.

The GLC150 units are well suited to simplify a control panel design while maintaining system flexibility. The majority of these units include 16 discrete inputs and 16 discrete outputs. Various models as shown in the table below are design to match OEM machine requirements with emphasis on reducing wiring and installation time. Significant savings is achieved with the GLC150 units due to integrating the graphic touch screen, built-in I/O, and logic control all in one unit.

These units are not recommended for applications with data collection or data logging requirements.

General Overview

	Type A	Type B	Type B+	Type C	Type D	Type H
Serial (232/422)				✓		
DC24V 16In/16Out	✓		✓			✓
Flex Network Interface		✓	✓	✓		
Counter/Pulse Output						✓
Analog (AD/DA)						✓
Thermocouple Input						✓
Pt100 Input (RTD)						✓
DeviceNet Master					✓	

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GLC150 Series 5.7" Low Cost Graphic Logic Controllers

- 5.7" Blue/White displays and STN Color displays
- All-In-One Box HMI/PLC Solution, Ideal for small OEM machines
- Various Models for Integrated and Distributed I/O Applications
- Select Model based on I/O requirements and communication requirements

5.7" LT Type A1 & A2 INTEGRATED DISCRETE I/O GRAPHIC LOGIC CONTROLLER

GLC150 Series 5.7" Blue/White and STN Color
LT Type A1 and A2 Integrated Discrete I/O only UL Listed Class I Div 2

Selection Guide	-XY32SK- Models	-XY32SC- Models
5.7" 320 x 240 Resolution	√	√
16 24V Rated Discrete Inputs	√	√
16 24V Rated Discrete Outputs	√ (Sink)	√ (Source)
Communication ports: Download/Barcode input	via Tool Port Only	via Tool Port Only
Support Flex Network Modules FN-xxx	No	No
Supports Communication Modules	No	No
Compact Flash Socket	No	No
Application Memory	1MB	1MB
Certifications : CE, UL/cUL CL I Div 2	√	√
Software Compatibility	GPPro-03	GPPro-03

Order Number	Description
GLC150-BG41-XY32SK-24V	6" Blue/White, Type A1, 16 in, 16 out (sink), 24VDC, UL, CE
GLC150-BG41-XY32SC-24V	6" Blue/White, Type A2, 16 in, 16 out (source), 24VDC, UL, CE
GLC150-SC41-XY32SK-24V	6" STN Color, Type A1, 16 in, 16 out (sink), 24VDC, UL, CE

5.7" LT TYPE B & C DISTRIBUTED I/O GRAPHIC LOGIC CONTROLLER

GLC150 Series 5.7" Blue/White LCD UL Listed Class I Div 2
LT Type B Distributed I/O (use with FN-XXX modules)
LT Type C Distributed I/O (use with FN-XXX modules) plus RS-232/RS-422 Serial

FLEX Model side view

RSFL Model side view

Selection Guide	-FLEX- Models	-RSFL- Models
5.7" 320 x 240 Resolution	√	√
Discrete Inputs/Outputs	None	None
RS-232/RS-422 Com Port 25pin D-sub	No	Yes
Communication Ports: Download/Barcode input	via Tool Port Only	via Tool Port Only
Support Flex Network Modules FN-xxx	Yes	Yes
Supports Communication Modules	No	No
Compact Flash Socket	No	No
Application Memory	1MB	1MB
Certifications : CE, UL/cUL CL I Div 2	√	√
Software Compatibility	GPPro-03	GPPro-03

Order Number	Description
GLC150-BG41-FLEX-24V	6" Blue/White, Type B, FN port, 24VDC, UL, CE
GLC150-BG41-RSFL-24V	6" Blue/White, Type C, FN port, RS-232/422, 24VDC, UL, CE

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- Various Models for Integrated and Distributed I/O Applications
- Select Model based on I/O requirements and communication requirements

5.7” LT TYPE B+ GRAPHIC LOGIC CONTROLLER (Integrated and Distributed I/O)

GLC150 Series 5.7” Blue/White and STN Color UL Listed Class I Div 2
Type B+ Integrated Discrete I/O and Distributed I/O (use with FN-XXX modules)

Selection Guide	-XY32KF- Models
5.7” 320 x 240 Resolution	√
16 24V Rated Discrete Inputs	√
16 24V Rated Discrete Outputs (Sink)	√
Communication Ports: Download/Barcode input	via Tool Port Only
Support Flex Network Modules FN-xxx	Yes
Supports Communication Modules	No
Compact Flash Socket	No
Application Memory	1MB
Certifications : CE, UL/cUL CL I Div 2	√
Software Compatibility	GPPro-03

Order Number	Description
GLC150-BG41-XY32KF-24V	6” Blue/White, Type B+, FN port, 32DIO (sink), 24VDC, UL, CE
GLC150-SC41-XY32KF-24V	6” STN Color, Type B+, FN port, 32DIO (sink), 24VDC, UL, CE

5.7” LT TYPE D DeviceNet™ MASTER GRAPHIC LOGIC CONTROLLER

GLC150 Series 5.7” Blue/White CE, UL
Type D Distributed Discrete I/O via DeviceNet

Selection Guide	-DNM- Models
5.7” 320 x 240 Resolution	√
Discrete Inputs	None
Discrete Outputs	None
Communication Ports: Download/Barcode input	via Tool Port Only
Support Flex Network Modules FN-xxx	No
Supports Communication Modules	No
Compact Flash Socket	No
Application Memory	1MB
Certifications : CE, UL	√
Software Compatibility	GPPro-03

Order Number	Description
GLC150-BG41-DNM-24V	6” Blue/White, Type D, DeviceNet, 32 DIO (sink), 24VDC

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GLC150 Series 5.7” Low Cost Graphic Logic Controllers

- 5.7” Blue/White displays and STN Color displays
- All-In-One Box HMI/PLC Solution, Ideal for small OEM machines
- Various Models for Integrated and Distributed I/O Applications
- Select Model based on I/O requirements and communication requirements

5.7” LT TYPE H1 & H2 ANALOG & DISCRETE I/O GRAPHIC LOGIC CONTROLLER

GLC150 Series 5.7” Blue/White and STN Color UL Listed Class I Div 2
Type H1 and H2 Integrated Analog/Discrete I/O

Selection Guide	Type H1 ADK Models	Type H2 ADC Models
5.7” 320 x 240 Resolution	√	√
16 Discrete Inputs Supports up to four 10Kpps inputs	√	√
16 Discrete Outputs, Supports up to four 5Khz pulse or 2.5KHz PWM outputs	√ (Sink)	√ (Source)
Two Analog Inputs and One Analog Output 0-20mA / 0-10VDC configurable	√	√
Communication Ports: Download/Barcode input	via Tool Port Only	via Tool Port Only
Support Flex Network Modules FN-xxx	No	No
Compact Flash Socket	No	No
Application Memory	1MB	1MB
Certifications : CE, UL/cUL CL I Div 2	√	√
Software Compatibility	GPPro-03	GPPro-03

Order Number	Description
GLC150-BG41-ADC-24V	6” Blue/White, Type H2, Ain/out, 32DIO (source), 24VDC
GLC150-BG41-ADK-24V	6” Blue/White, Type H1, Ain/out, 32DIO (sink), 24VDC
GLC150-SC41-ADK-24V	6” STN 64 Color, Type H1, Ain/out, 32DIO (sink), 24VDC

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GLC150 Series 5.7" Low Cost Graphic Logic Controllers

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- Various Models for Integrated and Distributed I/O Applications
- Select Model based on I/O requirements and communication requirements

5.7" LT TYPE H1 & H2 RTD TEMPERATURE GRAPHIC LOGIC CONTROLLER

GLC150 Series 5.7" Blue/White and STN Color UL Listed Class I Div 2
Type H1 and H2 Integrated Analog/Discrete/RTD I/O

Selection Guide	Type H1 ADPK Models	Type H2 ADPC Models
5.7" 320 x 240 Resolution	√	√
16 Discrete Inputs Supports up to four 10Kpps inputs	√	√
16 Discrete Outputs, Supports up to four 5Khz pulse or 2.5KHz PWM outputs	√ (Sink)	√ (Source)
Analog Inputs(2 pt) and Outputs(2 pt) 0-20mA / 0-10VDC configurable	√	√
RTD PT100 3-wire input (2pt)	√	√
Communication Ports: Download/Barcode input	via Tool Port Only	via Tool Port Only
Application Memory	1MB	1MB
Software Compatibility	GPPro-03	GPPro-03

Order Number	Description
GLC150-BG41-ADPC-24V	6" Blue/White, Type H2, Ain/out, PT100 32DIO (source), 24VDC
GLC150-BG41-ADPK-24V	6" Blue/White, Type H1, Ain/out, PT100, 32 DIO (sink), 24VDC
GLC150-SC41-ADPC-24V	6" STN 64 Color, Type H2, Ain/out, PT100, 32 DIO (source), 24VDC
GLC150-SC41-ADPK-24V	6" STN 64 Color, Type H1, Ain/out, PT100, 32 DIO (sink), 24VDC

5.7" LT TYPE H1 & H2 THERMOCOUPLE TEMPERATURE GRAPHIC LOGIC CONTROLLER

GLC150 Series 5.7" Blue/White and STN Color UL Listed Class I Div 2
Type H1 and H2 Integrated Analog/Discrete/Thermocouple I/O

Selection Guide	Type H1 ADTK Models	Type H2 ADTC Models
5.7" 320 x 240 Resolution	√	√
16 Discrete Inputs Supports up to four 10Kpps inputs	√	√
16 Discrete Outputs, Supports up to four 5Khz pulse or 2.5KHz PWM outputs	√ (Sink)	√ (Source)
Analog Inputs(2 pt) and Outputs(2 pt) 0-20mA / 0-10VDC configurable	√	√
Type J/K Thermocouple input (3pt)	√	√
Communication Ports: Download/Barcode input	via Tool Port Only	via Tool Port Only
Application Memory	1MB	1MB
Software Compatibility	GPPro-03	GPPro-03

Order Number	Description
GLC150-BG41-ADTC-24V	6" Blue/White, Type H2, Ain/out, TC, 32DIO (source), 24VDC
GLC150-BG41-ADTK-24V	6" Blue/White, Type H1, Ain/out, TC, 32 DIO (sink), 24VDC
GLC150-SC41-ADTK-24V	6" STN 64 Color, Type H1, Ain/out, TC, 32 DIO (sink), 24VDC

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FLEX NETWORK I/O FN-XXXX Modules For Distributed I/O Applications

- **Compatible with any GLC2000 or GLC150 that supports a Flex Network Interface**
- **Up to 63 FN modules can be connected to one GLC unit**
- **Support up to 1008 Flex network I/O points per GLC unit**
- **Supported by GP-PRO 03 HMI configuration software**
- **Requires the use of at least one of the following cables**
  - **FN-CABLE-2010-31-MS** 10 Meter Flex Network Cable
  - **FN-CABLE-2050-31-MS** 50 Meter Flex Network Cable
  - **FN-CABLE-2200-31-MS** 200 Meter Flex Network Cable

Note: These cables do not use connectors and can be cut to length

Flex Network modules For GLC2000 Series and Select GLC150 Series units

Distributed I/O Modules – Mix and Match

Analog –Discrete – High Speed Counter – Single Axis Positioning

400m

Order Number	Description
Discrete I/O Modules	
FN-X16TS41	16 point Discrete Input (CE/UL/cUL)
FN-X32TS41	32 point Discrete Input (CE/UL/cUL)
FN-Y08RL41	8 Relay Discrete Output, 1 Common (CE/UL/cUL)
FN-Y16SK41	16 point Discrete Sink Output (CE/UL/cUL)
FN-Y16SC41	16 point Discrete Source Output (CE/UL/cUL)
FN-XY08TS41	8 point Discrete Input, 8 point Sink Transistor Output Unit (CE/UL/cUL)
FN-XY16SK41	16 point Discrete Input, 16 point Sink Transistor Output (CE/UL/cUL)
FN-XY16SC41	16 point Discrete Input, 16 point Source Transistor Output (CE/UL/cUL)
FN-XY32SKS41	32 point Discrete Input, 32 point Sink Transistor Output (CE/UL/cUL)
Analog I/O Modules	
FN-AD02AH41	2-Channel Analog Input: 0-10VDC 0-20ma, 4-20ma (CE/UL/cUL)
FN-AD04AH11	4-Channel Analog Input: 0-10VDC, +/-10VDC, 0-20ma, 4-20ma
FN-DA02AH41	2-Channel Analog Output: 0-10VDC 0-20ma, 4-20ma (CE/UL/cUL)
FN-DA04AH11	4-Channel Analog Output 0-10VDC, +/-10VDC, 0-20ma, 4-20ma
Specialty I/O Modules	
FN-HC10SK41	High-speed Counter input (200Khz) w/ comparator outputs (CE/UL/cUL)
FN-PC10SK41	Single-Axis Positioning Unit, Main Unit (CE/UL/cUL)
FN-PC10CB01	Motor Driver Connection Cable for Single-Axis Positioning
FN-PC10LD41	Handheld Teach/Loader for Single-Axis Positioning unit, CE/UL/cUL
FN-LD10CBL	Cable for Handheld Teach/Loader Unit

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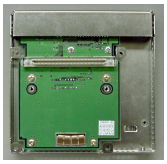
Communication Modules for GP477R, GP2000 and GLC2000

Communication modules interface GP477R, GP2000/01 and GLC2000 Series to various popular industrial networks. The GLC150 series of graphic logic controllers are not compatible. These communication modules mount directly to the backside of the GP or GLC Series unit via supplied mounting screws. ***It is necessary to check UL approval ratings for hazardous locations when combining communication modules with an HMI or Graphic Logic Controller unit***.

GP477R Compatible Communication Modules

Order Number	Description
QPI-ABD-201	AB Data Highway Plus comm module, UL1604, CE
QPI-ABR-201	AB 1771 Remote I/O comm module, UL1604, CE
QPI-MBP-XA1	Modicon Modbus Plus comm module, UL1604, CE
GP070-PF11	Profibus DP Slave comm module, no certifications
GP070-IB41	Interbus-S Slave comm module, UL, CE
GP070-CL11	Mitsubishi CC Link comm module, no certifications
GP070-DN41	DeviceNet Slave comm module, UL, CE
GP077-MLTE41	GP477R Multi Unit E with Ethernet, sound, Compact Flash

GP2300, GP2301, GLC2300 Compatible Communication Modules



PSM-CONV00 Adapter

Order Number	Description
QPJ-ABD-201*	AB Data Highway Plus comm module , UL1604, CE
QPJ-ABR-201*	AB 1771 Remote I/O comm module, UL1604, CE
CA3-MBPALL-41	Modbus Plus comm. Module, UL, CE
CA1-PFSALL-21	Profibus DP Slave comm module, CE only
CA2-PFMALL-21	Profibus DP Master comm module CE only, for GLC2000 models only
CA2-PFMALL-UTIL	Profibus DP Master configuration software for use with CA2-PFMALL-21
CA1-DNSALL-21	DeviceNet Slave comm module, CE only
CA2-DNMALL-41	DeviceNet Master comm module, UL, CE for GLC2000 models only
CA1-COSALL-21	CANopen Slave comm module, CE only
***PSM-CONV00**	**Required adapter for GP230x and GLC2300 when using QPJ comm. modules**

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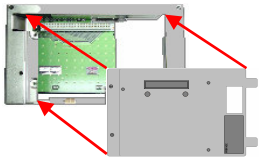
Communication Modules for GP/GLC 2400, 2500, 2600 Series

Communication modules interface GP2000/01 and GLC2000 Series to various popular industrial networks. The GLC150 series of graphic logic controllers are not compatible. These communication modules mount directly to the backside of the GP or GLC Series unit via supplied mounting screws. ***It is necessary to check UL approval ratings for hazardous locations when combining communication modules with an HMI or Graphic Logic Controller unit***.

GP2400, GP2401, GLC2400
GP2500, GP2501, GLC2500
GP2600, GP2601, GLC2600

Compatible Communication Modules

PSL-CONV00



Order Number	Description
QPI-ABD-201*	AB Data Highway Plus comm module, UL1604, CE
QPI-ABR-201*	AB 1771 Remote I/O comm module, UL1604, CE
CA3-MBPALL-41	Modbus Plus comm module, UL, CE
CA1-PFSALL-21	Profibus DP Slave comm module, CE only
CA2-PFMALL-21	Profibus DP Master comm module, CE only for GLC2000 models only
CA2-PFMALL-UTIL	Profibus DP Master configuration software for use with CA2-PFMALL-21
CA1-DNSALL-21	DeviceNet Slave comm module, CE only
CA2-DNMALL-41	DeviceNet Master comm module, UL, CE for GLC2000 models only
CA1-COSALL-21	CANopen Slave comm module, CE only
***PSL-CONV00**	**Required adapter for QPI comm. modules with GP2000 and GLC2000 units**

VIDEO MIX UNIT FOR GP2500T, GP2600T, GLC2500T, GLC2600T

Supports up to 4 Video Camera Inputs on Select HMIs (see line above)

Selection Guide	GP2000-VM41
Four NTSC/PAL Video Inputs	√
One VGA/SVGA Input 15 pin D-sub	√
One RGB Output for Remote Monitor	√
JPEG Screen Capture to CF card	√
Full Screen, ¼, 1/16 image sizes	√
Mounts Backside of HMI unit	√
10 and 12 inch TFT GP/GLC2000 units compatibility only	√
Software Compatibility	GPPro-03

Order Number	Description
GP2000-VM41	Video Mix unit for GP/GLC or 2500T/2600T,(requires GP PRO/PBIII V5.05 or higher)

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GP-PRO/PBIII C-Package03 Configuration Software

Windows-based software with graphical editor for configuration of all GP, ST, LT, GLC Series HMIs. GP-PRO/PBIII C-Package03 offers a comprehensive set of panel operators, including: push buttons, selector switches, pilot lights, text and numeric data display, bar-graph displays, static and dynamic bit-mapped or object oriented images.

Key Features include:

- Trend Graphing up to 65000 data points with playback
- Multi-language tables activated via touch of a screen button
- Alarm History acknowledge and Recovery
- CSV data transfer to compact flash and Recipe modification
- Extended SIO communication scripting for communication to serial field devices

Order Number	Description
GPPRO-CNT01W-P03	GP-PRO/PBIII C-Package 03 Config. Software
GPPRO-03-SW-SUITE	GP-PRO 03 Software Suite: Includes: GPPRO 03, Pro-Server, GP Web Part numbers:GPPRO-CNT01W-P03 PSW-ED01-V45, and GW-CJ01-V16

Pro-Server with Pro-Studio Data Collection

Pro-Server with Pro-Studio is a data collection software package that allows production site data to be collected and sent to information management PCs in real-time. Pro-Server automatically records and accumulates production data, for immediate playback of either past or present line operating conditions.

Key Features Include:

- Importing /Exporting directly into Excel without programming or thru DDE
- User's defined triggers to generate reports and print reports
- Share PLC/Field I/O device data with MES systems
- Playback of accumulated data for analysis
- Remote Screen capturing
- Alert multiple departments of critical events for fast information sharing

Order Number	Description
PSW-ED01-V45	Pro-Server with Pro-Studio Version 4.1, CD-Rom with PDF manual Note: Must be used with GP-PRO/PBIII C-Package01 or later.
PSW-GV01-V11	GP Viewer Version 1.1 add-on pack to Pro Server for Data Playback

GP-Web Remote Access Internet Software

GP-Web software allows remote monitoring of GP units via your Internet web browser. This software is ideal for applications in which production data needs to be monitored by various management groups.

Key Features Include:

- Useful tool for remote diagnostics and system support
- Full Q-Tag Support, M-Tag Support Also
- Trend Graph Display into Excel remotely

Order Number	Description
GW-CJ01-V16	GP-Web Version 1.6, includes 3 concurrent Client Licenses and PDF manuals Note: Must be used with Pro-Server
GW-CJ01-CLTUL	Unlimited GP-Web Client Licenses

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PRO-DESIGNER MULT-PLATFORM HMI CONFIGURATION SOFTWARE

Pro-Designer is a multi-platform HMI configuration software. This software allows you to create your HMI application and download the application to various targets.
Note GLC products currently not supported with this software.

Note: Not Compatible with GLC2000, GLC150 LT units GP477R, and select ST40x units.

Features

- **Offline Development Environment**
- **Standard HMI Features:**
  - Button, lamps, meters, and graphics
  - Recipes
  - Alarming
  - Trending: real time and historical
  - Popup keypads
  - Extensive symbol library
  - Graphic file import: BMP, JPG, EMF, PNG, and Pro-face graphics format DPD
- **Advanced HMI Features:**
  - Simultaneous multi-protocol support
  - Multi-platform support
  - Data sharing between units over Ethernet with ease1
  - Download via Ethernet, serial port, or CompactFlash™ 1
  - Remote monitoring via optional Pro-eView software1
  - Java-based scripting
  - Wide range of animations
  - Simultaneous support of multiple languages at runtime
  - Sound Ouput1 with .WAV and .DAF import
  - Printing1
  - Bar code reader support
  - Real-time simulation on development PC, including variable data value

PRO-DESIGNER CONFIGURATION SOFTWARE

Order Number	Description
PS-DWE01-V4210	Pro-Designer HMI Development software Version 4.2
PS-DWE01-5Pack	Pro-Designer V4.2.10, Five individually licensed software packages.
PS-DWE01-10Pack	Pro-Designer V4.2.10, Ten individually licensed software packages.

PRO-DESIGNER RUNTIME LICENSE PER PC OR HMI UNIT

Order Number	Description
PS-DCR01*	Pro-Designer PC Runtime License (PC/AT)
PS-ECR01*	Pro-eView PC Web-enabled Runtime License (PC/AT)
PS-EPR01	Pro-eView GP/GLC2000, Factory Gateway Web-enabled Runtime License

*For PC with touchscreen units only, Keypad and mouse is not supported.
Note: No Development Runtime License needed for GP or Factory Gateway. Web-enabled Pro-eView requires a runtime license per HMI unit.

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PRO-DESIGNER PC WORKSTATIONS

3112T-PDWS

Pro-Designer Multi-Platform Pre-Loaded!

Features

- 12.1" SVGA (800x600) flat panel TFT color display
- Analog resistive touchscreen
- Preloaded with Pro-face Pro-Designer HMI Runtime software
- Intel® Socket 370 Celeron® 1.2 GHz CPU, 256 KB cache,100 MHz system bus
- 256 MB SDRAM
- AGP graphics controller with BIOS-selectable video RAM up to 64 MB (uses DRAM)
- VGA port for remote monitor
- Supports using remote monitor and built-in display simultaneously
- Preloaded with Windows® 2000 operating system
- 20 GB internal hard drive
- Side accessible 1.44 MB floppy drive and CD-ROM drive
- Type I CompactFlash™ card slot
- Two RS-232 ports
- One configurable RS-232/422/485 port
- Two SPP/EPP/ECP parallel ports
- 10/100Base-T Ethernet
- Audio input/output/mic
- PS/2 keyboard/mouse port (Y-cable included)
- Mounted with mounting CL Ips or standard 75/100 mm VESA arm
- Power cable and drivers included
- 100-240 V AC power supply
- NEMA 4/4X/12, IP65 front panel
- 1-year warranty

Order Number	Description
3112T-PDWS	12.1” SVGA Pro-Designer Pre-loaded WorkStation

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GP2000 and GP37W2/3 Quick Start Kits – Configurable

Each Kit Includes:

- Any GP unit listed below
- GP Pro HMI or Pro-Designer development software
- User-specified Programming Cable
- User-Specified PLC Cable

**Model No. QS-_ _ _ _

GLC2000 and GLC150 Series Quick Start Kits – Configurable

Quick Start Kits Include:

- Any GLC2000 or GLC150 unit listed below
- GP Pro HMI development software
- User-specified Download Program Cable
- User-Specified PLC or I/O Cable

**Model No. QSGLC-_ _ _ _

Pro-face Cables and Cable Accessories:

PROGRAMMING CABLES, PRINTER CABLES and SERIAL PORT ISOLATORS

Order Number	Description
GPW-CB02	RS-232 HMI Programming Cable: Connects HMI to PC Port 9 pin D-Sub
GPW-CB03	USB HMI Programming Cable: Connect HMI to PC USB port
HMI-CAB-ETH	Ethernet crossover cable 6 ft: HMI to PLC Ethernet port or to program HMI
PSM-PRCB00	Serial Printer Cable for GP/GLC 2400, 2500, 2600 series units
HMI-CAB-C99	Parallel Printer Cable for GPx77series units
CA2-ISOALL232-01	RS-232 Port Isolator for GP and GLC HMI 25Pin D-sub serial ports
CA2-ISOALL422-01	RS-422 Port Isolator for GP and GLC HMI 25Pin D-sub serial ports

Pro-face Flex Network Cables and GLC150 Cable Accessories:

Order Number	Description
142055	Replacement DeviceNet Master Connector for GLC150 Type D or CA2-DNMALL-41
142720	Terminal Block, 32 point I/O for GLC150 Type A1, A2 and B+
142722	I/O Cable 1m, connects terminal block (142720) to GLC150 Type A1, A2 or B+
142723	I/O Cable 2m, connects terminal block (142720) to GLC150 Type A1, A2 or B+
GLC100-DIOCON01	DIO Connector/cover for GLC150 Type A1 and A2 (qty 5)
GLC000-DIOCB11-MS	DIO cable 3m, open end for GLC150 Type A1 and A2
FN-IFCN01	Flex Network Connector for GLC150 Type B, B+ and C (5 sets)
GLC2300-FNCN01	Flex Network Connector for GLC2300 (5 sets)
GPL-AXCN01	Flex Network AUX Connector for GLC2500, GLC2600 (Qty 1)
GPM-AXCN01	Flex Network AUX Connector for GLC2400 (Qty 1)
FN-CABLE-2010-31-MS	10 Meter Flex Network Cable
FN-CABLE-2050-31-MS	50 Meter Flex Network Cable
FN-CABLE-2200-31-MS	200 Meter Flex Network Cable

GPH70 HANDHELD CABLES AND ACCESSORIES

Order Number	Description
GPH70-C232-O	RS-232C Cable, 3m, Connects to GP-H70 Handhelds other end is open wires
GPH70-C232-MS	RS-232C Cable, 10m, Connects to GP-H70 Handhelds other end is open wires
GPH70-D232-MS	RS-232C Cable, 10m, D-Sub connector, connects handheld to GPH70-AP232-O
GPH70-AP232-O	RS-232C GPH70 Breakout adaptor for use with GPH70-D232-MS
GPH70-C422-O	RS-422 Cable, 3m, Connects to GP-H70 Handhelds other end is open wires
GPH70-D422-MS	RS-422 Cable, 10m, D-Sub connector, connects handheld to GPH70-AP232-O
GPH70-AP422-O	RS-422 GPH70 Breakout adaptor for use with GPH70-D422-MS
HMI-CAB-A02	RS-232C/RS-422 cable, 12', connects GPH70 handheld to HMI-JBX-201
HMI-CAB-A02-25X	RS-232C/RS-422 cable, 25', connects GPH70 handheld to HMI-JBX-201
HMI-CAB-A02-50X	RS-232C/RS-422 cable, 50', connects GPH70 handheld to HMI-JBX-201
HMI-JBX-201*	RS-232C/RS-422 breakout adaptor for use with HMI-CAB-A02 cables

***Check Availability**

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PLC CABLES FOR GP/GLC With RS-232/RS-422 25 PIN D-Sub SERIAL PORTS

All Cables 10 Feet in length unless noted otherwise.
Extended length cables identified by "-20x, -30x, -50x" where number denotes length in feet

PLC Manu.	Description	Order Number
Generic PLC Cables and Adapters		
RS-232	Connects GP/GLC to PLC RS-232 port via open wires	**HMI-CAB-C232**
RS-232C	Cross Type 25 pin D-sub connector both ends (5M)	**GP410-IS00-O**
RS-232C	Straight Cable with 25 pin D-sub both ends (5M)	**GP410-IS01-O**
RS-422	Connects GP/GLC to PLC RS-422 port via open wires	**HMI-CAB-C422**
RS-422 Serial	25 pin D-sub connector to 9 pin D-sub (5M)	**GP230-IS11-O**
RS-422	Multi-link 25 pin D-sub connector to 9 pin D-sub (5M)	**GP230-IS12-O**
Adapter	RS-422 25 Pin D-sub to screw terminal adapter	**GP070-CN10-O**
Allen Bradley		
SLC 500, 5/01	Connects GP/GLC to SLC DH485 Program Port via	**HMI-CAB-C83**
5/02, 5/03	8 pin RJ45 modular phone connector	**HMI-CAB-C83-20x**
SLC 500, 5/01	Connects GP/GLC to SLC DH485 Program Port via	**HMI-CAB-C84**
5/02, 5/03	8 pin RJ45 modular phone connector plus includes 8 pin Socket modular phone, 6 foot	**HMI-CAB-C84-20X**
	Similar to C84 cable, For GP2000/GLC2000 Units (not for use in multi-drop configurations)	**HMI-CAB-XY84**
SLC 5/03, 5/04	Connects GP/GLC to SLC RS-232 9 pin D-sub port	**HMI-CAB-C52** **HMI-CAB-C52-30X** **HMI-CAB-C52-50X**
PLC-5	Connects GP/GLC to PLC-5 RS-232 25 pin D-sub port	**HMI-CAB-C53**
PLC-2	Connects GP/GLC to PLC-2 RS-422 15 pin D-sub Program port	**HMI-CAB-C90**
Micrologix	Connects GP/GLC to Micrologix RS-232 8 pin circular DIN port	**HMI-CAB-C106**
Remote I/O		**See Communication Modules**
Data Highway Plus		**See Communication Modules**
AIC+ Port 3	Connects GP/GLC to AIC Port 3 via open end wires	**HMI-CAB-C117A**
Aromat (Panasonic/Matsushita)		
FP1 (MEWNET)	Connects GP/GLC to Aromat PLC via RS-232 9 pin D-sub	**HMI-CAB-C111**
ASCII Single Drop		
	Connects GP/GLC to 3rd party RS-232 screw terminal serial port	**HMI-CAB-C232**
	Connects GP/GLC to 3rd party RS-422 screw terminal serial port	**HMI-CAB-C422**
GE Fanuc		
90/30, 90/70	Connects GP/GLC to PLC RS-422 Program port via 15 pin D-sub	**HMI-CAB-C82**
SNP protocol	Connects GP/GLC to PLC CMM Module via RS-232 25 pin D-sub	**HMI-CAB-C53**
	Connects GP/GLC to PLC CMM Module via RS-422 25 pin D-sub	**HMI-CAB-C93**
90/30 CPU351/352/363	Connects GP/GLC to PLC RS-232 port via RJ11	**HMI-CAB-C120***
VersaMax Micro/Nano	Connects GP/GLC to PLC RS-232 port via RJ45	**HMI-CAB-C119***
VersaMax CPU001/002/005	Connects GP/GLC to PLC RS-232 port via 9 pin D-sub	**HMI-CAB-C111**

*** Check Availability**

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PLC CABLES FOR GP/GLC WITH RS-232/RS-422 25 PIN D-Sub SERIAL PORTS

All Cables 10 Feet in length unless noted otherwise.

Extended length cables identified by "-20x, -30x, -50x" where number denotes length in feet

PLC Manu.	Description	Order Number
IDEC		
Micro-1, FA	Connects GP/GLC to PLC RS-232 25 pin D-sub port via link Adapter	**HMI-CAB-C53**
Micro 3	GP/GLC to Micro 3 PLC RS-232 9 pin D-sub port	**HMI-CAB-C109**
Keyence		
KV-L2 Port 1	Connects GP/GLC to PLC Port 1 via RS-232 25 pin D-sub	**HMI-CAB-C53**
Koyo/PLC Direct		
DL430, 440 P2	Connects GP/GLC to PLC RS-232 25 pin D-sub port	**HMI-CAB-C53**
D4-DCM	Connects GP/GLC to PLC RS-232 25 pin D-sub port	**HMI-CAB-C53**
DL330	Connects GP/GLC to PLC RS-232 25 pin D-sub port	**HMI-CAB-C53**
DL330P	Connects GP/GLC to PLC RS-232 25 pin D-sub port with use of D3-232-DCU	**HMI-CAB-C53**
DL350 Port 2	Connects GP/GLC to PLC RS-232 port via 25 pin D-sub	**HMI-CAB-C53**
DL450P Port A	Connects GP/GLC to PLC RS-232 port via 25 pin D-sub	**HMI-CAB-C53**
DL250 Port 1	Connects GP/GLC to PLC RS-232 via 6-pin Modular Phone	**HMI-CAB-C86**
DL350 Port 1	Connects GP/GLC to PLC RS-232 via 6-pin Modular Phone	**HMI-CAB-C86**
DL240 Port 2	Connects GP/GLC to PLC RS-232 via 6-pin Modular Phone	**HMI-CAB-C86**
Mitsubishi		
2 Port Adapter II	A/QnA/FX series for GP2000 / GLC2000	**GP070-MD11**
Adapter cable	RS-422, 5m, for 2 Port Adapter II (GP070-MD11)	**GP070-MDCB11**
Series A1S	Connects GP/GLC to PLC A1SJ71C24-R2 via RS-232 9 pin D-sub	**HMI-CAB-C88**
Series A	Connects GP/GLC to PLC computer interface RS-232 25 pin D-sub	**HMI-CAB-C53**
FX, FXO	Connects GP/GLC to PLC program port FX, FXO via RS-422 25 pin D-sub (note: FXO requires Adapter)	**GP2000-CBLFX/1M-01** **GP2000-CBLFX/5M-01** **HMI-CAB-C91**
	Connects GP/GLC to Mitsubishi Programming Port	**GP430-IP10-O**
	Connects GP/GLC to Mitsubishi FX Programming Port	**GP430-IP11-O**
Modicon		
984 A, B, X	Connects GP/GLC to PLC RS-232 port via 25 pin D-sub	**HMI-CAB-C53**
984 Slot /compact	Connects GP/GLC to PLC RS-232 port via 9 pin D-sub	**HMI-CAB-C58**
984 Micro	Connects GP/GLC to PLC RS-232 port via RJ45	**HMI-CAB-C102**
Omron		
CS1	Omron CS1 Cable, Connects to GP/GLC via 25 pin D-sub	**GP000-IS03-MS**
C200H	Connects GP/GLC to PLC RS-232 port via 25 pin D-sub	**HMI-CAB-C53**
C20H, CQM1	Connects GP/GLC to PLC RS-232 port via 9 pin D-sub	**HMI-CAB-C67**
Reliance		
Automate program port, R-net gateway	Connects GP/GLC to PLC RS-232 port via 25 pin D-sub	**HMI-CAB-C53**

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PLC CABLES FOR GP/GLC WITH RS-232/RS-422 25 PIN D-Sub SERIAL PORTS

All Cables 10 Feet in length unless noted otherwise.

Extended length cables identified by "-20x, -30x, -50x" where number denotes length in feet

PLC Manu.	Description	Order Number
Siemens		
MPI Cable	Connects GP/GLC to Siemens PLC via MPI connection	**GP070-MPI-41**
S5 family	Connects GP/GLC to Siemens S5 via TTY converter, 5m	**GP000-IS11-O**
S5 family	Connects GP/GLC to PLC program port via 15 pin current loop	**HMI-CAB-C76**
3964R 928B RS-232 Sub Module	Connects GP/GLC to PLC RS-232 port via 25 pin D-sub	**HMI-CAB-C53**
S7-200 PPI	Connects GP/GLC to PLC RS-422 port via 9 pin D-sub	**HMI-CAB-C110** **HMI-CAB-C110-20X**
S7-300 MPI	Connects GP/GLC to PLC RS-232 port via 9 pin D-sub	**HMI-CAB-C52** **HMI-CAB-C52-30X** **HMI-CAB-C52-50X**
Simatic TI		
305 w/RS-232 DCU	Connects GP/GLC to PLC Port 1 via RS-232 25 pin D-sub	**HMI-CAB-C53**
405 series	Connects GP/GLC to PLC Port 1 via RS-232 25 pin D-sub	**HMI-CAB-C53**
500 series	Connects GP/GLC to PLC Program Port via RS-232 25 pin D-sub	**HMI-CAB-C53**
500 series	Connects GP/GLC to PLC Program Port via RS-232 9 pin D-sub	**HMI-CAB-C101**
500 series	Connects GP/GLC to PLC RS-422 port via 9 pin D-sub	**HMI-CAB-C92**
TI545-1102	Connects GP/GLC to PLC Program Port via RS-422 9 pin D-sub	**HMI-CAB-C100**
Square D		
Symax 100 and greater	Connects GP/GLC to PLC RS-422 port via 9 pin D-sub	**HMI-CAB-C94**
Symax 50 via link adapter	Connects GP/GLC to PLC Port 1 via RS-232 25 pin D-sub	**HMI-CAB-C53**
Toyopuc		
Toyopuc PC1	Connects GP/GLC to PLC RS-422 port via half duplex 3-plated wires	**HMI-CAB-C113**
Toyopuc PC2F	GP/GLC to PLC RS-422 port via half duplex 4 spade lug wires	**HMI-CAB-C114**
Uni-Telway		
TSX37 Series	Connects GP/GLC to PLC via 8 pin Mini DIN connector	**HMI-CAB-C116**

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Pro-face Accessories – Maintenance and Replacement Components

HMI MOUNTING ACCESSORIES

Order Number	Description
GP070-AT01	Installation Mounting Fasteners, 1 set of 4 fasteners for all HMI and GLC units
CA1-STDLRG-01	Desktop Stand for GP250x and GP260x units
CA1-WMALRG-01	Wall Mount Adaptor for GP2000H handhelds, GP250x and GP260x units

COMPACT FLASH CARDS AND ACCESSORIES

Number	Description
CA3-CFCALL/64MB-01	64MB Compact Flash card for GP2000, GP2001 and IT2400
CA3-CFCALL/256MB-01	256MB Compact Flash card for GP2000, GP2001 and IT2400
CA3-CFCALL/512MB-01	512MB Compact Flash card for GP2000, GP2001 and IT2400
GP077-CFAD10	Adapter: Compact Flash card PCMCIA adapter
GP077-CFFM10	Front Access Panel Mount CF Card Maintenance Unit for GP2500/2600

CLEAR PROTECTIVE TOUCH SCREEN OVERLAYS

Order Number	Description
ST400-DF01	ST40x Touch Screen Protection Sheet (Qty 5)
GP470/477-COVER-10P	GP470/477R Touch Screen Soft Protection Sheet (Qty 10)
GP470/477-DF10	GP470/477R Touch Screen Hard Protection Sheet (Qty 5)
GP37W2-DF00	GP37W2, GP37W3, GLC150 Series Screen Protection Sheet (Qty 5)
PS300-DF00	GP2300, GP2301, GLC2300 Touch Screen Protection Sheet (Qty 5)
PS400-DF00	GP2400, GP2401, GLC2400 Touch Screen Protection Sheet (Qty 5)
PSL-DF00	GP2500, GP2501, GLC2500, GLC2600 Touch Screen Protection Sht (Qty 5)
GP2000H-DF10	GP2000H Handheld Touch Screen Protection Sheet (Qty 5)
GPH70-DF10-O	GPH70 Handheld Touch Screen Protection Sheet (Qty 10)

POWER SUPPLIES

Order Number	Description
510-1000-004	24VDC, 1Amp power supply, Din Rail Mount Class I Div 2
510-1000-041	24VDC, 2Amp power supply, Din Rail Mount Class I Div 2

MISCELLANEOUS ACCESSORIES

Order Number	Description
GP077-SDAD10	Multi Unit Pin Jack Adapter for GP/GLC with sound output

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

Pro-face Accessories – Maintenance and Replacement Components

BACKLIGHTS FOR GP AND GLC HMI UNITS

Number	Description
PS300-BU00*	GP2300/GP2301/GLC2300 Replacement backlight Mono or STN Color
PS400-BU00-MS	GP2400, GP2401, GLC2400 Replacement backlight TFT Color
PS501S-BU00	GP2501S Replacement backlight STN Color
PS500S-BU00	GP2500S, Replacement backlight STN Color
GP577RT-BL00-MS*	GP2500T, GP2501T, GLC2500, Replacement backlight TFT Color
PS600-BU00-MS	GP2600, GP2601, GLC2600 Replacement backlight TFT Color

STAINLESS STEEL BEZELS (Special Order Call for Availability)

Order Number	Description
HMI-BEZ-202	Stainless Steel NEMA 4X Bezel for GP477R 9” EL
HMI-BEZ-403	Stainless Steel NEMA 4X Bezel for GP250x 10.5”
HMI-BEZ-405	Stainless Steel NEMA 4X Bezel for GP260x 12.1”
HMI-BEZ-406	Stainless Steel NEMA 4X Bezel for GP240x 7.4”

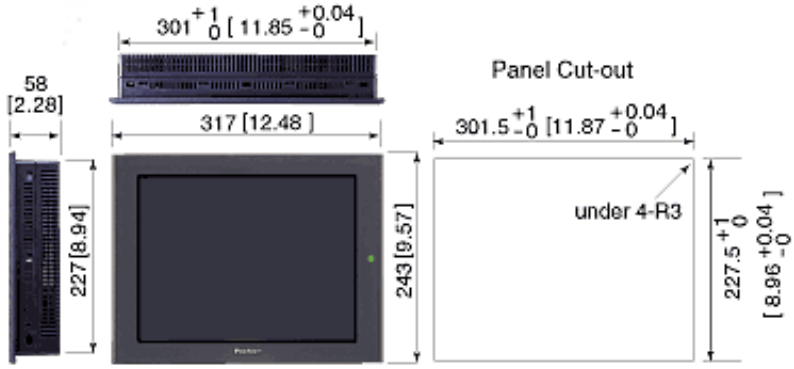
MANUALS

Manuals are also available for download free of charge from www.xycom.com web site.

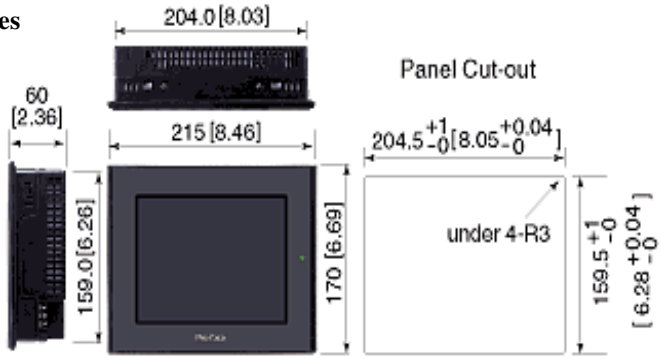
Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

GP/GLC Panel Cutout Dimensions

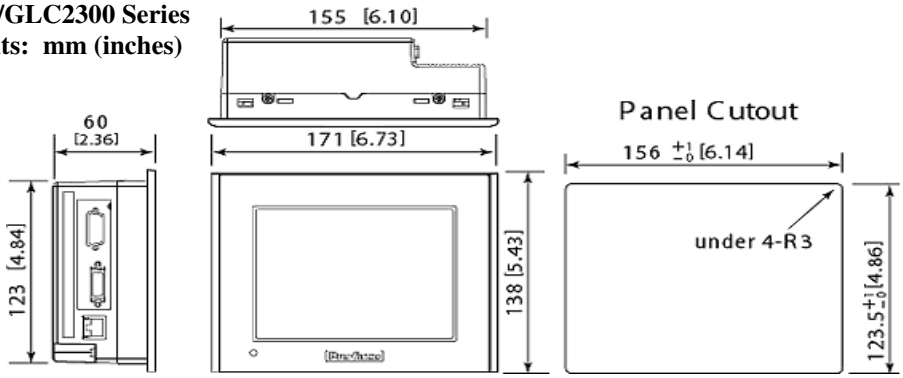
GP/GLC 2600/2500 Series
Units: mm (inches)



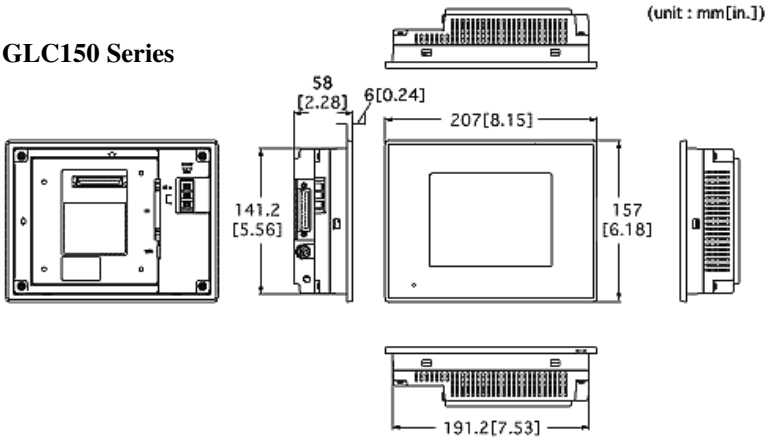
GP/GLC 2400T Series
Units: mm (inches)



GP/GLC2300 Series
Units: mm (inches)



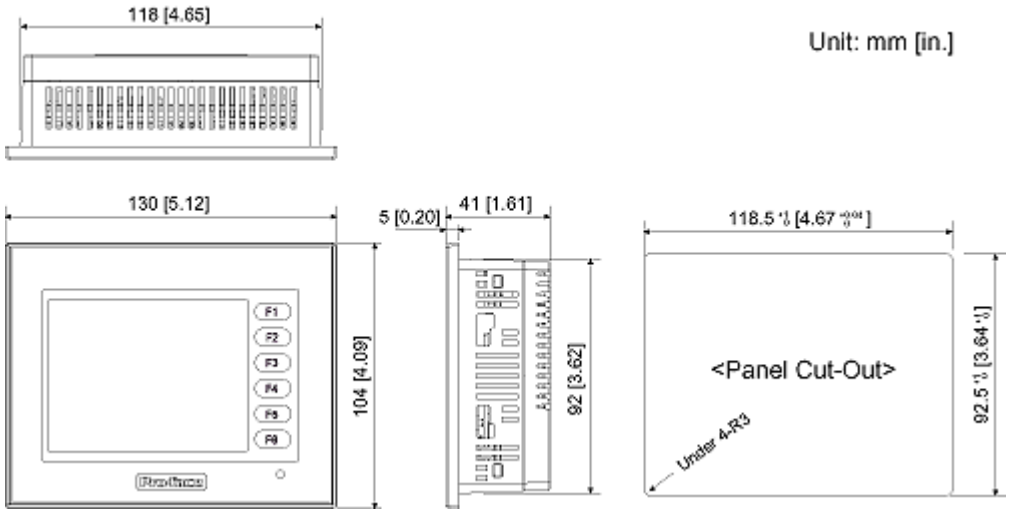
GP37W2/W3/ GLC150 Series



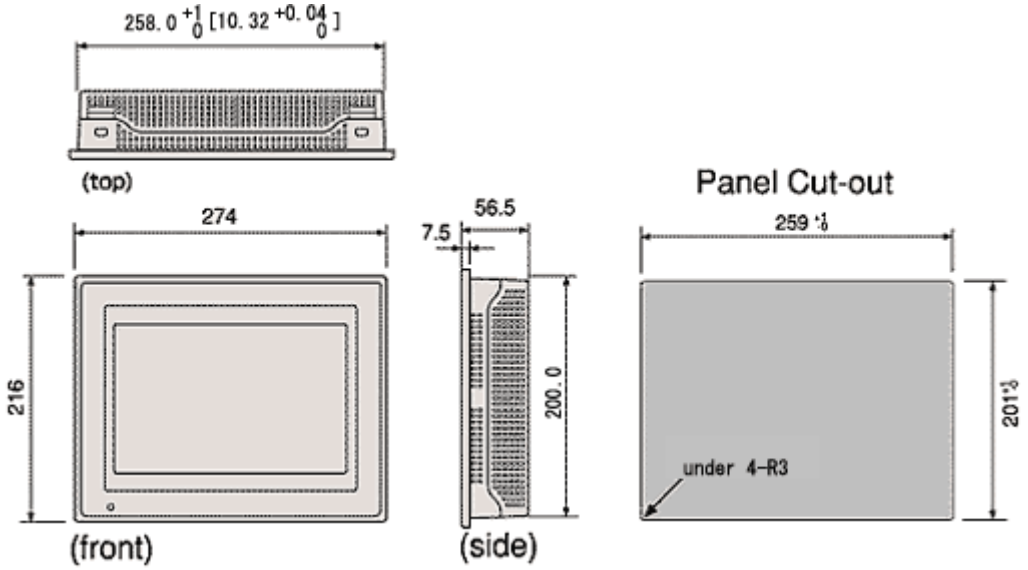
Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

GP/GLC Panel Cutout Dimensions

ST40x Models



GP477R Models
Units: mm



Xycom Automation
750 North Maple Rd.
Saline, MI 48176-1292
Phone: 734-944-0482
Fax: 734-429-1010
http://www.xycom.com

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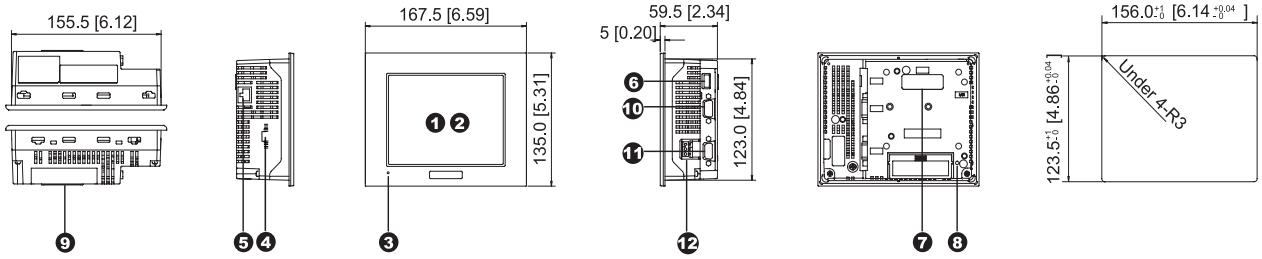
AGP3300-L1-D24-D81K
AGP3300-L1-D24-D81C

AGP3300L D81K/D81C Integrated HMI Controller

5.7" Integrated Control Operator Interface with Built-In Discrete I/O

- All-in-One HMI and PLC with Built-in 6 discrete inputs and 2 discrete outputs
- Crisp, Clear, Bright 320x240 Resolution Monochrome Display
- 64-bit RISC 133Mhz CPU for Ultra-Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Two Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 10/100 Base-T Ethernet, USB, Serial (MPI) and CompactFlash™ Communication Interfaces
- High-Definition Part Images and Multi-Language Support

PRODUCT OVERVIEW



AGP-3300T(AC type) unit shown.

❶ **Display**

❷ **Touch Panel**

❸ **Status LED**

❹ **Discrete I/O Interface**
6 Discrete Inputs, 2 Discrete Outputs Built-in.

❺ **10/100 Base-T Ethernet Interface (LAN)** (RJ45)

❻ **USB 1.1 Type A Interface (Host)**
One Port for download, bar-code, printer or other USB device

❼ **Optional Communication Module Interface 2**

❽ **CF Card Access LED**

❾ **CompactFlash™ Card Access Cover**
(CF cards up to 512MB available)

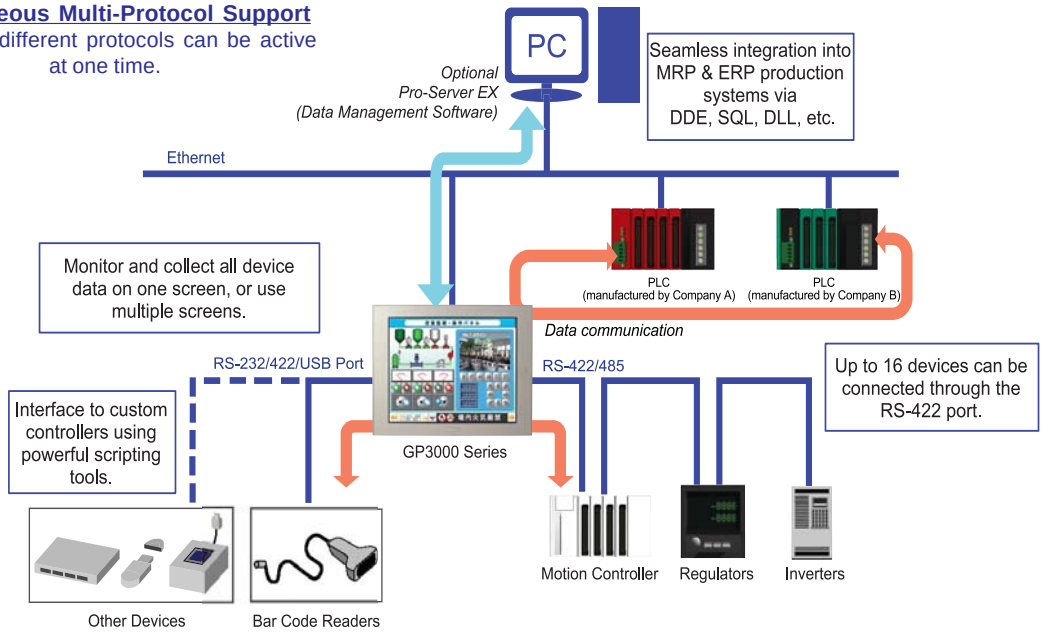
❿ **Serial Interface (COM1)**
RS-232C/RS-422 serial interface.
D-sub 9-pin plug type connector. Communication method is switched via software.

⓫ **Serial Interface (COM2)**
RS-422/RS-485 MPI (187kbps)
serial interface. D-sub 9-pin socket type connector.

⓬ **Power Plug Connector**

COMMUNICATION CAPABILITY

Simultaneous Multi-Protocol Support
Up to two different protocols can be active at one time.



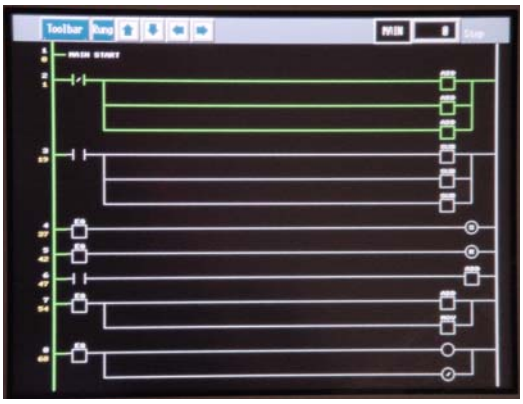
Pro-face XYCOM

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

AGP3300L D81K/D81C CONTINUED

INTEGRATED MONITOR CONTROL

ONLINE LOGIC PROGRAM MONITORING FEATURE

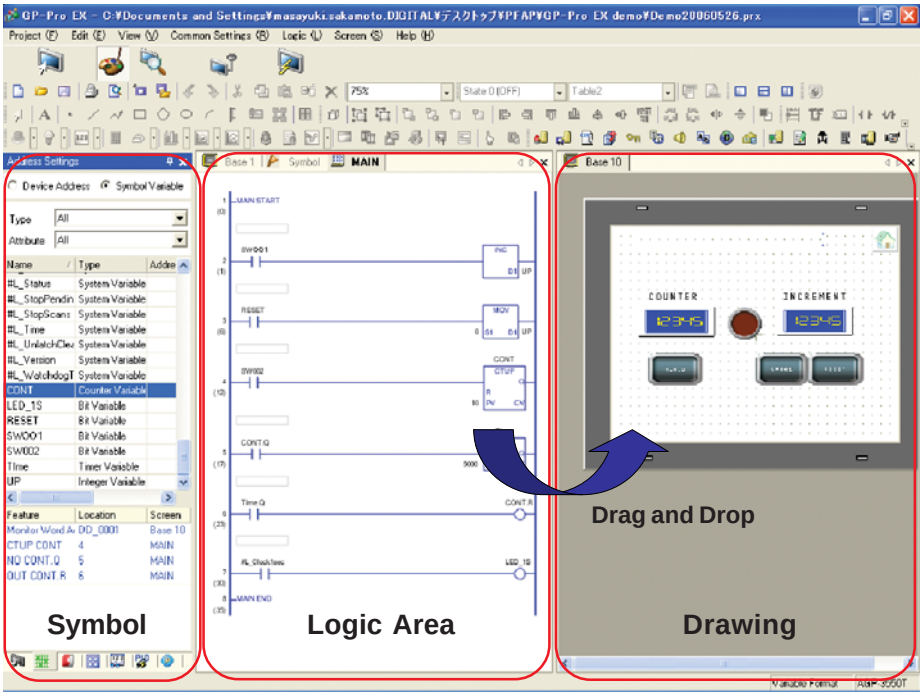


Detect Problems Faster

- View logic Programming on HMI while running. "No need for a laptop!"
- Verify current values of all variables live
- Quickly identify sequential logic faults
- Helps optimize Programming & Processes
- View logic in English or Japanese

POWERFUL LOGIC PROGRAMMING

With GP-Pro EX, you can develop logic programs as well as screen creation. You can also import existing logic programs created with the GP-PRO/PBIII C-Package.



Time Saving Steps

Drag and Drop

Drag contact or coil to quickly create a graphical switch or lamp.

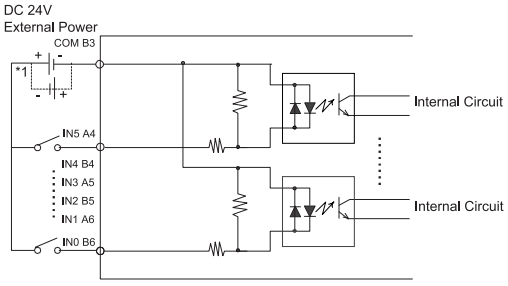
Re-usable sub-routines

Reduce steps for product programming development and maintenance using sub-routines.

Screen Editor GP-Pro EX

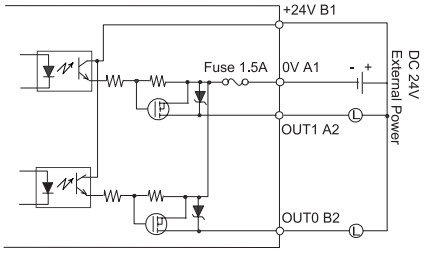
BUILT-IN DISCRETE I/O

6 Discrete Inputs, 2 Discrete Outputs Per Model

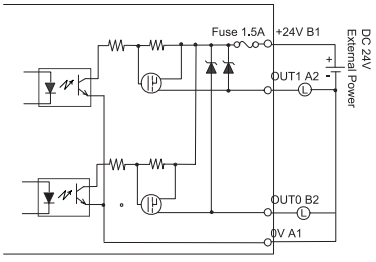


*1 Dotted line shows connection to sink output type.

Discrete Input Connection



Discrete Output Connection (Sink Configuration)



Discrete Output Connection (Source Configuration)

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AGP3300L D81K/D81C SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

Model		AGP3300-L1-D24-D81K/D81C
Display	Type	Monochrome LCD
	Colors	Black and White (16 shades)
	Backlight	CCFL Service life: 58,000 hrs. or more at 25°C (77°F) and 24 hrs. operation
	Resolution	320 x 240 pixels
	Brightness & Contrast Controls	8 levels of adjustment available via touch panel
	Touch Panel	Resistive film analog 1024 x 1024 resolution
Memory	Application	6 MB FEPROM
	Data Backup	320KB SRAM
Interfaces	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin D-sub plug, Data Transmission Speed: 2400 to 115.2 Kbps
	Serial (COM 2) Interface	RS-422/485, 9 pin D-sub socket, Data Transmission Speed: 2400 to 115.2 Kbps (MPI Direct 187.5 Kbps)
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)
	Communication Module Interface	Interface port for optional communication modules.
	USB Interface	1 Port USB1.1 Host I/F, USB TYPE-A connector
	Discrete 6 In 2 Out Interface	Connect to an I/O device. 6 Input pts. 24VDC, Rated:5.7 mA. 2 Outputs 24V DC, Rated:24VDC @ 200mA/pt.
	CF Card Interface	1 slot CompactFlash™, TYPE II

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24V DC
	Rated Voltage Range	19.2V DC to 28.8V DC
	Power Consumption	26W or less
Environmental	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)
	Storage Temperature	-20°C (-4°F) to 60°C (140°F)
	Storage Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)
	Altitude Operation	800hPa to 1114hPa (2000 meters or lower)
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s^2, X,Y, Z directions for 10 times (80min.)
Structural	Ratings	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Coolant Spraying and Splashing")
	Certifications	CE, CSA, UL listed Cl 1 Div 2
	External Dimensions	W167.4mm[6.59in.] x H135mm [5.31in.] x D59.5mm [2.34in.]
	Weight	1.0kg (2.2lb) or less

CUT-OUT COMPATIBILITY

16 Years of Cut-Out Compatibility

Old model

AGP3000 model "Drop-in"

Panel cutout dimensions

Size (mm) / Series	156x123.5 mm
GP77R Series	GP377R Series
GP2000 Series	GP2300/ GP2301 Series
GP3000 Series	GP-3300 Series

Investment Protection

SOFTWARE COMPATIBILITY

POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software

(V.1.10 or higher)

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3300-L1-D24-D81K	5.7" Monochrome, 2 Serial, 1 USB, Ethernet, Discrete 6 in 2 Out (Sink), 24VDC
AGP3300-L1-D24-D81C	5.7" Monochrome, 2 Serial, 1 USB, Ethernet, Discrete 6 in 2 Out (Source), 24VDC

OPTIONAL ACCESSORIES

HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
CA3-DFS6-01	Overlay Screen protection sheet (5 sheets/pack)
PLC Cables & Accessories	*See AGP3000 Connectivity Document*

Xycom Automation
Ph: 734-429-4971
Fax: 734-429-1010
http://www.xycom.com

Customer Support Hotline:
734-944-0482

Pro-face XYCOM

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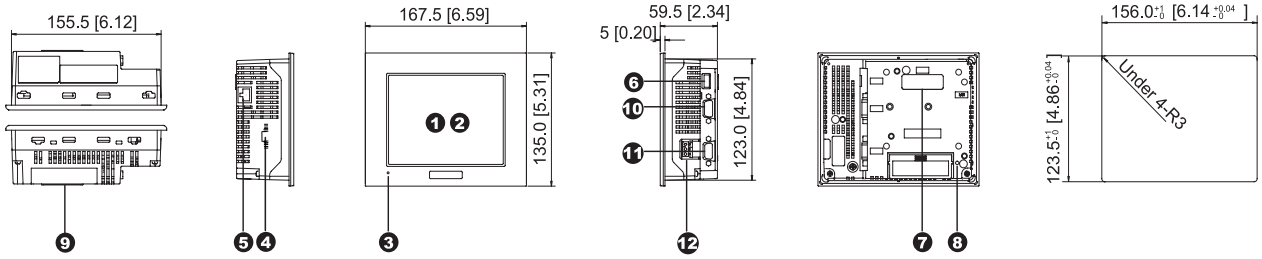
AGP3300-L1-D24-FN1M

AGP3300L FN1M Integrated HMI Controller

5.7" Integrated Control Operator Interface with Dual Channel Flex Network Port

- Crisp, Clear, Bright 320x240 Resolution Monochrome Display
- 64-bit RISC 133Mhz CPU for Ultra-Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Two Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 10/100 Base-T Ethernet, USB, Serial (MPI) and CompactFlash™ Communication Interfaces
- High-Definition Part Images and Multi-Language Support

PRODUCT OVERVIEW

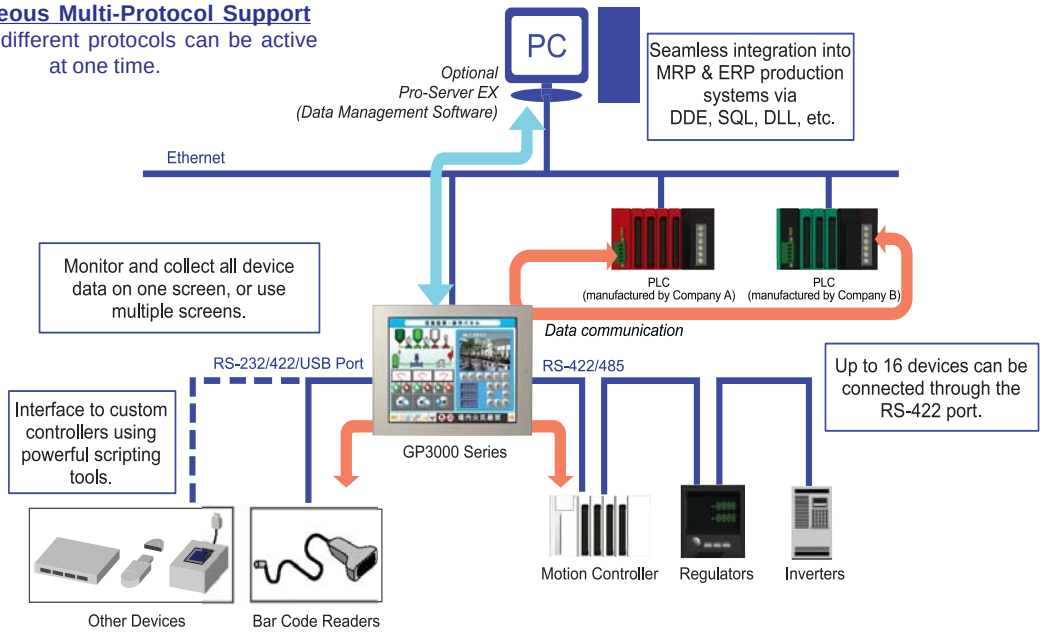


AGP-3300T(AC type) unit shown.

1. **Display**
2. **Touch Panel**
3. **Status LED**
4. **FLEX NETWORK Interface**
   2 ch. Flex Network interface for use with FN-xxx distributed I/O modules.
5. **10/100 Base-T Ethernet Interface (LAN)** (RJ45)
6. **USB 1.1 Type A Interface (Host)**
   One Port for download, bar-code, printer or other USB device
7. **Optional Communication Module Interface 2**
8. **CF Card Access LED**
9. **CompactFlash™ Card Access Cover**
   (CF cards up to 512MB available)
10. **Serial Interface (COM1)**
    RS-232C/RS-422 serial interface.
    D-sub 9-pin plug type connector. Communication method is switched via software.
11. **Serial Interface (COM2)**
    RS-422/RS-485 MPI (187kbps)
    serial interface. D-sub 9-pin socket type connector.
12. **Power Plug Connector**

COMMUNICATION CAPABILITY

Simultaneous Multi-Protocol Support
Up to four different protocols can be active at one time.



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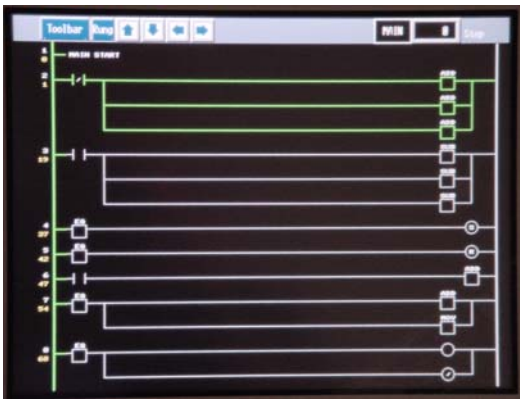
AGP3300L FN1M CONTINUED

INTEGRATED MONITOR CONTROL

ONLINE LOGIC PROGRAM MONITORING FEATURE



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- Verify current values of all variables live
- Quickly identify sequential logic faults
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- View logic in English or Japanese

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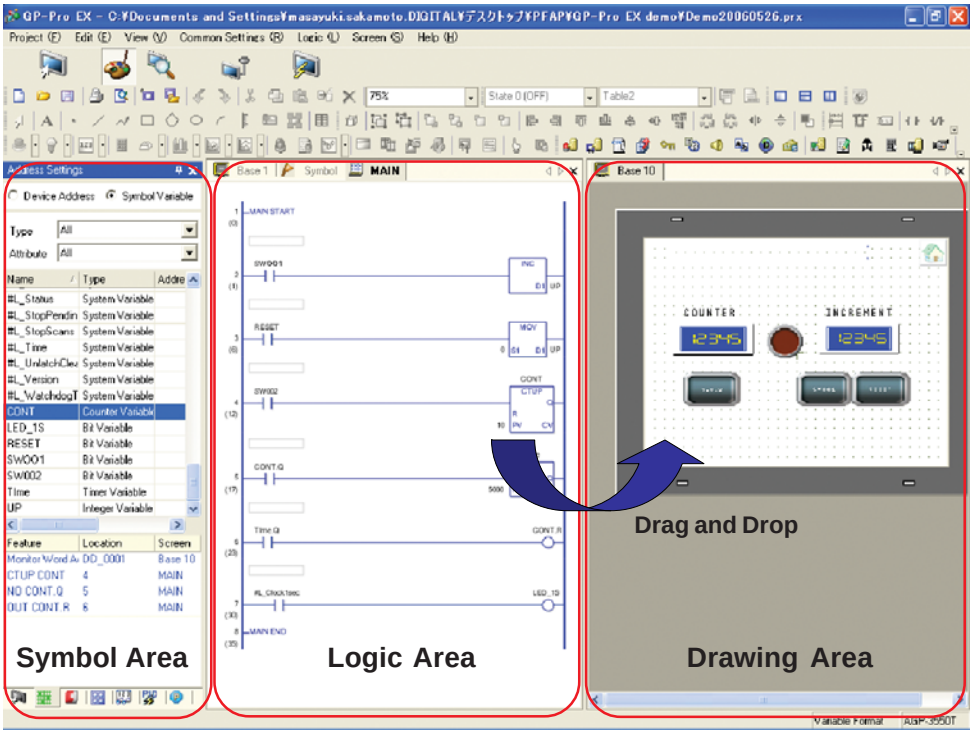


Time Saving Steps

Drag and Drop

Drag contact or coil to quickly create a graphical switch or lamp.

Re-usable sub-routines

Reduce steps for product programming development and maintenance using sub-routines.

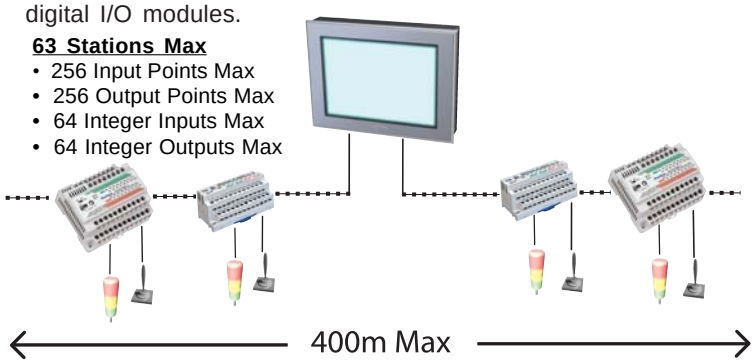
Screen Editor GP-Pro EX

DISTRIBUTED I/O MODULES

Features include: timers, counters, logical operations, mathmatical, bit operation, etc. Mix and match any combination of analog and digital I/O modules.

63 Stations Max

- 256 Input Points Max
- 256 Output Points Max
- 64 Integer Inputs Max
- 64 Integer Outputs Max



FLEX NETWORK MODULES

Monitor & Control

- For distributed I/O applications.
- Supports the Flex Network Analog and Discrete I/O Modules.

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AGP3300L FN1M SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

Model		AGP3300-L1-D24-FN1M
Display	Type	Monochrome LCD
	Colors	Black and White (16 shades)
	Backlight	CCFL Service life: 58,000 hrs. or more at 25°C (77°F) and 24 hrs. operation
	Resolution	320 x 240 pixels
	Brightness & Contrast Controls	8 levels of adjustment available via touch panel
	Touch Panel	Resistive film analog 1024 x 1024 resolution
Memory	Application	6 MB FEPROM
	Data Backup	320KB SRAM
Interfaces	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin D-sub plug, Data Transmission Speed: 2400 to 115.2 kbps
	Serial (COM 2) Interface	RS-422/485, 9 pin D-sub socket, Data Transmission Speed: 2400 to 115.2 kbps (MPI Direct 187.5 kbps)
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)
	USB Interface	1 Port USB1.1 Host I/F, USB TYPE-A connector
	Flex Network Interface	Connect to Flex Network distributed I/O modules: 2 channel, 200m per channel. Speed: 6Mbs, 12Mbs. Bit variable Input/Output: 512pts max. Integer Variable Input/Output: 128 pts max.
	CF Card Interface	1 slot CompactFlash™, TYPE II

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24V DC
	Rated Voltage Range	19.2V DC to 28.8V DC
	Power Consumption	26W or less
Environmental	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)
	Storage Temperature	-20°C (-4°F) to 60°C (140°F)
	Storage Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)
	Altitude Operation	800hPa to 1114hPa (2000 meters or lower)
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s^2, X,Y, Z directions for 10 times (80min.)
Structural	Ratings	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Coolant Spraying and Splashing")
	Certifications	CE, CSA, UL listed Cl 1 Div 2
	External Dimensions	W167.4mm[6.59in.] x H135mm [5.31in.] x D59.5mm [2.34in.]
	Weight	1.0kg (2.2lb) or less

CUT-OUT COMPATIBILITY

16 Years of Cut-Out Compatibility

Old model

AGP3000 model "Drop-in"

Panel cutout dimensions

Size (mm) / Series	156x123.5 mm
GP77R Series	GP377R Series
GP2000 Series	GP2300/ GP2301 Series
GP3000 Series	GP-3300 Series

Investment Protection

SOFTWARE COMPATIBILITY

POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3300-L1-D24-FN1M	5.7" Monochrome, 2 Serial, 1 USB, Ethernet, Flex Network, 24VDC

OPTIONAL ACCESSORIES

HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
CA3-DFS6-01	Overlay Screen protection sheet (5 sheets/pack)
PLC Cables & Accessories	*See AGP3000 Connectivity Document*

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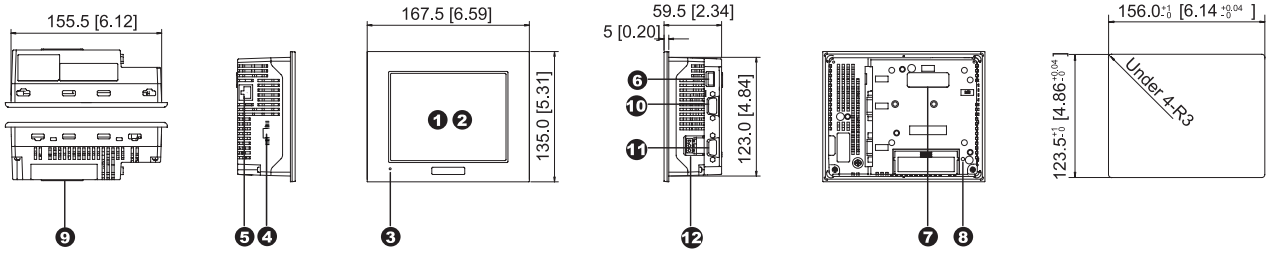
AGP3300-S1-D24-D81K
AGP3300-S1-D24-D81C

AGP3300S D81K/D81C Integrated HMI Controller

5.7" Integrated Control Operator Interface with Built-In Discrete I/O

- All-in-One HMI and PLC with Built-in 6 discrete inputs and 2 discrete outputs
- 4096 Colors TFT, Clear, Bright, High-Resolution STN Display
- 64-bit RISC 133Mhz CPU for Ultra-Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Two Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 10/100 Base-T Ethernet, USB, Serial (MPI) and CompactFlash™ Communication Interfaces
- High-Definition Part Images and Multi-Language Support

PRODUCT OVERVIEW



AGP-3300T(AC type) unit shown.

❶ **Display**

❷ **Touch Panel**

❸ **Status LED**

❹ **Discrete I/O Interface**
6 Discrete Inputs, 2 Discrete Outputs Built-in.

❺ **10/100 Base-T Ethernet Interface (LAN)** (RJ45)

❻ **USB 1.1 Type A Interface (Host)**
One Port for download, bar-code, printer or other USB device

❼ **Optional Communication Module Interface 2**

❽ **CF Card Access LED**

❾ **CompactFlash™ Card Access Cover**
(CF cards up to 512MB available)

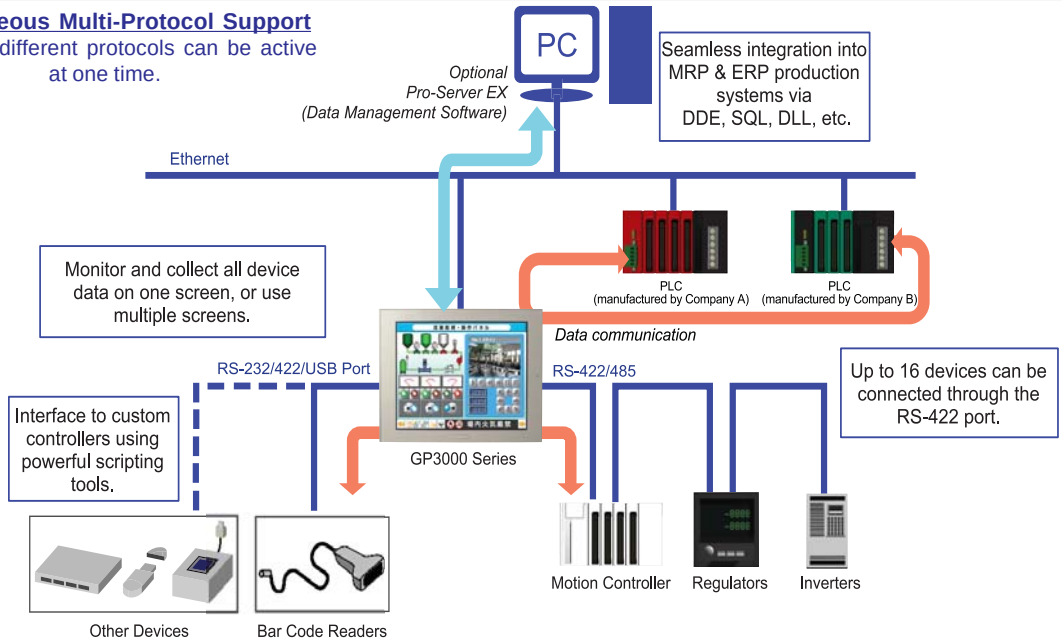
❿ **Serial Interface (COM1)**
RS-232C/RS-422 serial interface.
D-sub 9-pin plug type connector. Communication method is switched via software.

⓫ **Serial Interface (COM2)**
RS-422/RS-485 MPI (187kbps) serial interface. D-sub 9-pin socket type connector.

⓬ **Power Plug Connector**

COMMUNICATION CAPABILITY

Simultaneous Multi-Protocol Support
Up to two different protocols can be active at one time.



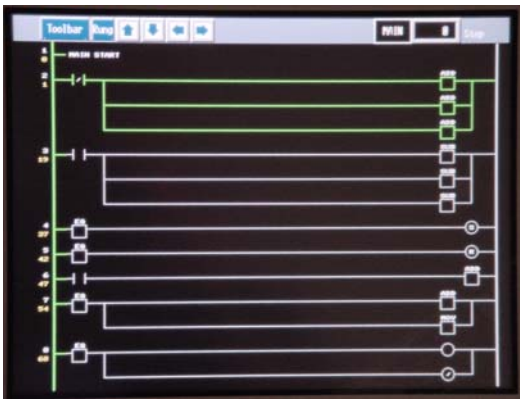
Pro-face XYCOM

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

AGP3300S D81K/D81C CONTINUED

INTEGRATED MONITOR CONTROL

ONLINE LOGIC PROGRAM MONITORING FEATURE



Detect Problems Faster

- View logic Programming on HMI while running. "No need for a laptop!"
- Verify current values of all variables live
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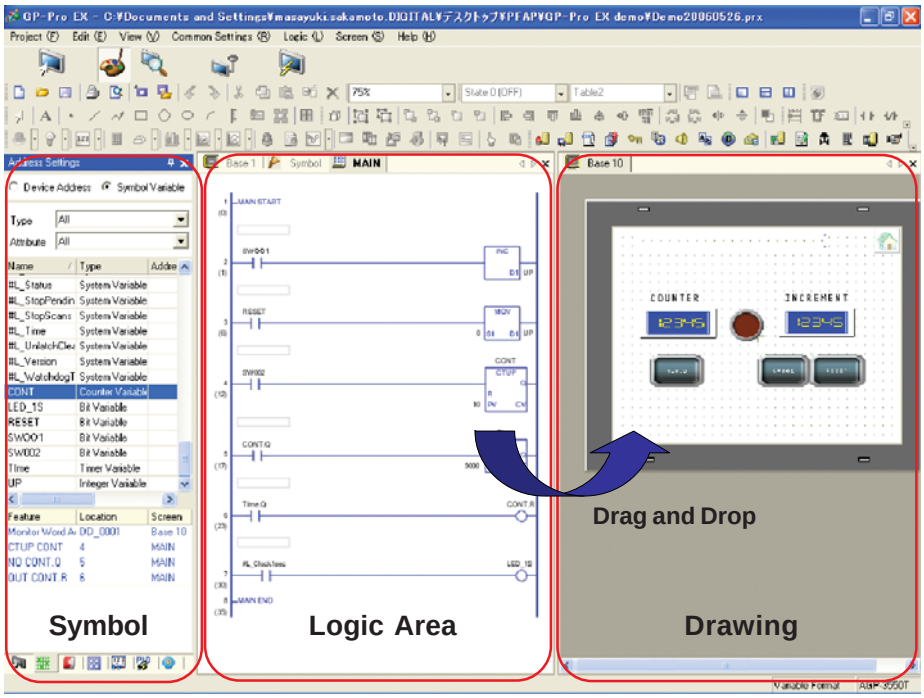
POWERFUL LOGIC PROGRAMMING

With GP-Pro EX, you can develop logic programs as well as screen creation. You can also import existing logic programs created with the GP-PRO/PBIII C-Package.



Time Saving Steps

Drag and Drop

Drag contact or coil to quickly create a graphical switch or lamp.

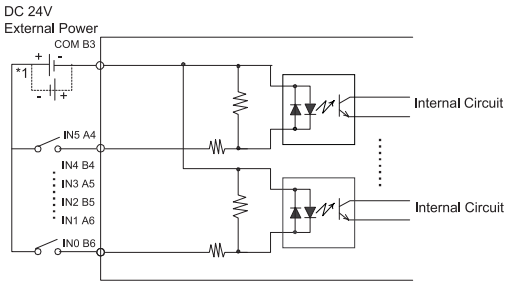
Re-usable sub-routines

Reduce steps for product programming development and maintenance using sub-routines.

Screen Editor GP-Pro EX

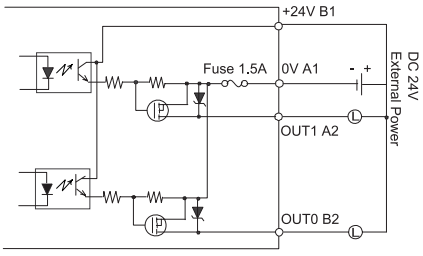
BUILT-IN DISCRETE I/O

6 Discrete Inputs, 2 Discrete Outputs Per Model

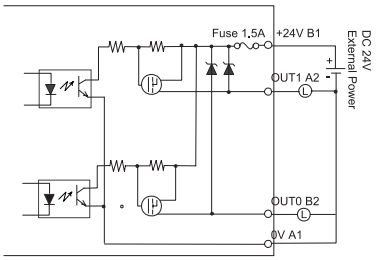


*1 Dotted line shows connection to sink output type.

Discrete Input Connection



Discrete Output Connection (Sink Configuration)



Discrete Output Connection (Source Configuration)

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

AGP3300S D81K/D81C SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

Model		AGP3300-S1-D24-D81K/D81C
Display	Type	STN Color LCD
	Colors	4096 colors (3-speed blink)
	Backlight	CCFL Service life: 50,000 hrs. or more at 25°C (77°F) and 24 hrs. operation
	Resolution	320 x 240 pixels
	Brightness Control	8 levels of adjustment available via touch panel
	Touch Panel	Resistive film analog 1024 x 1024 resolution
Memory	Application	6 MB FEPROM
	Data Backup	320KB SRAM
Interfaces	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin plug D-sub, Data Transmission Speed: 2400 to 115.2 Kbps
	Serial (COM 2) Interface	RS-422/485, 9 pin socket D-sub, Data Transmission Speed: 2400 to 115.2 Kbps (MPI Direct 187.5 Kbps)
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)
	Communication Module Interface	Interface port for optional communication modules.
	USB Interface	1 port USB1.1 Host I/F, USB TYPE-A connector
	Discrete 6 In 2 Out Interface	Connect to an I/O device. 6 Input pts 24VDC, Rated:5.7 mA. 2 Outputs 24V DC, Rated:24VDC @ 200mA/pt.
	CF Card Interface	1 slot CompactFlash™, TYPE II

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24V DC
	Rated Voltage Range	19.2V DC to 28.8V DC
	Power Consumption	26W or less
Environmental	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)
	Storage Temperature	-20°C (-4°F) to 60°C (140°F)
	Storage Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)
	Altitude Operation	800hPa to 1114hPa (2000 meters or lower)
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s^2, X,Y, Z directions for 10 times (80min.)
Structural	Ratings	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Coolant Spraying and Splashing")
	Certifications	CE, CSA, UL Listed Cl 1 Div 2
	External Dimensions	W167.4mm[6.59in.] x H135mm [5.31in.] x D59.5mm [2.34in.]
	Weight	1.0kg (2.2lb) or less

CUT-OUT COMPATIBILITY

16 Years of Cut-Out Compatibility

Old model

AGP3000 model "Drop-in"

Panel cutout dimensions

Size (mm) / Series	156x123.5 mm
GP77R Series	GP377R Series
GP2000 Series	GP2300/ GP2301 Series
GP3000 Series	GP-3300 Series

Investment Protection

SOFTWARE COMPATIBILITY

POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software

(V.1.10 or higher)

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3300-S1-D24-D81K	5.7" STN, 2 Serial, 1 USB, Ethernet, Discrete 6 in 2 Out (Sink), 24V
AGP3300-S1-D24-D81C	5.7" STN, 2 Serial, 1 USB, Ethernet, Discrete 6 in 2 Out (Source), 24V

OPTIONAL ACCESSORIES

HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
CA3-DFS6-01	Overlay Screen protection sheets (5 sheets/pack)
PLC Cables & Accessories	*See AGP3000 Connectivity Document*

Xycom Automation
Ph: 734-429-4971
Fax: 734-429-1010
http://www.xycom.com

Customer Support Hotline:
734-944-0482

Pro-face XYCOM

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PRO-FACE OPERATOR INTERFACES

product datasheet

AGP3300-T1-D24-D81K

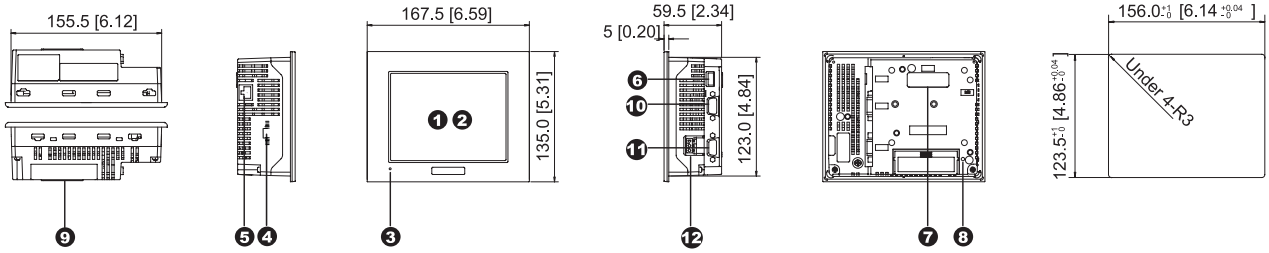
AGP3300-T1-D24-D81C

AGP3300T D81K/D81C Integrated HMI Controller

5.7" Integrated Control Operator Interface with Built-In Discrete I/O

- All-in-One HMI and PLC with Built-in 6 discrete inputs and 2 discrete outputs
- 65,536 Colors TFT, Clear, Bright, High-Resolution TFT Display
- 64-bit RISC 133Mhz CPU for Ultra-Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Two Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 10/100 Base-T Ethernet, USB, Serial (MPI) and CompactFlash™ Communication Interfaces
- High-Definition Part Images and Multi-Language Support

PRODUCT OVERVIEW



AGP-3300T(AC type) unit shown.

❶ **Display**

❷ **Touch Panel**

❸ **Status LED**

❹ **Discrete I/O Interface**
6 Discrete Inputs, 2 Discrete Outputs Built-in.

❺ **10/100 Base-T Ethernet Interface (LAN)** (RJ45)

❻ **USB 1.1 Type A Interface (Host)**
One Port for download, bar-code, printer or other USB device

❼ **Optional Communication Module Interface 2**

❽ **CF Card Access LED**

❾ **CompactFlash™ Card Access Cover**
(CF cards up to 512MB available)

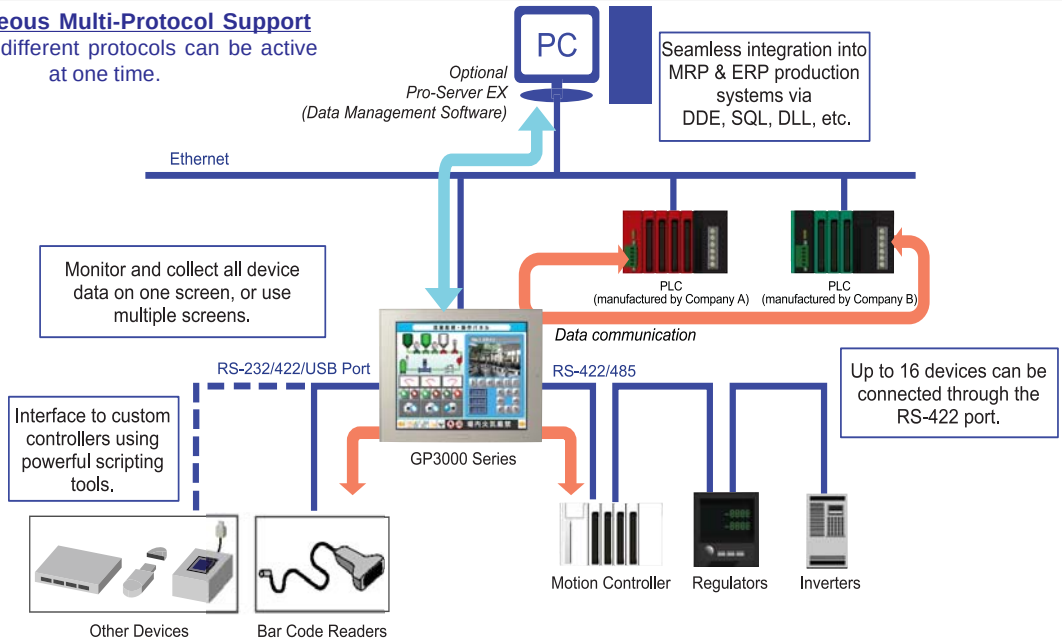
❿ **Serial Interface (COM1)**
RS-232C/RS-422 serial interface.
D-sub 9-pin plug type connector. Communication method is switched via software.

⓫ **Serial Interface (COM2)**
RS-422/RS-485 MPI (187kbps) serial interface. D-sub 9-pin socket type connector.

⓬ **Power Plug Connector**

COMMUNICATION CAPABILITY

Simultaneous Multi-Protocol Support
Up to four different protocols can be active at one time.



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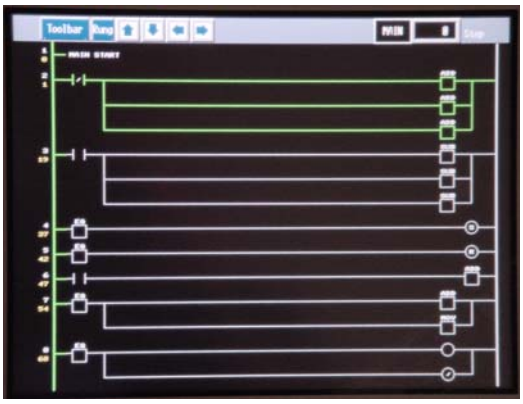
AGP3300T D81K/D81C CONTINUED

INTEGRATED MONITOR CONTROL

ONLINE LOGIC PROGRAM MONITORING FEATURE



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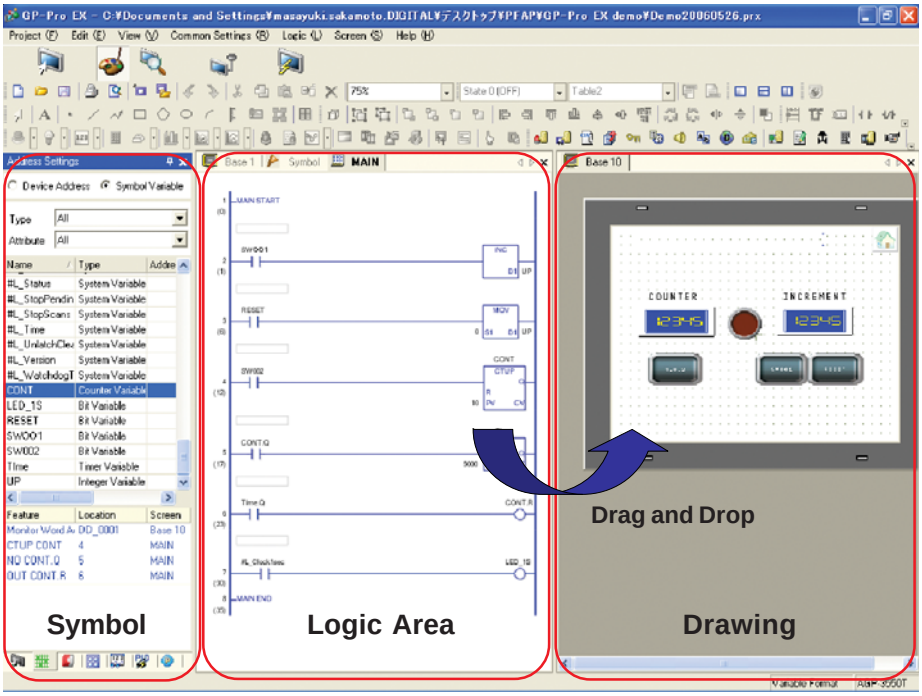

Time Saving Steps

Drag and Drop

Drag contact or coil to quickly create a graphical switch or lamp.

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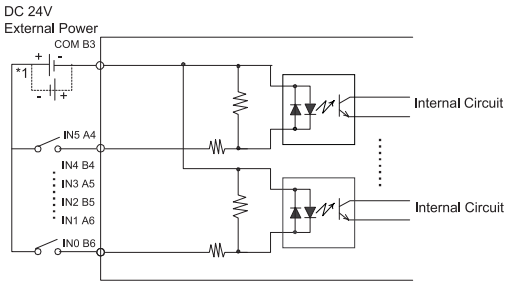
Screen Editor GP-Pro EX

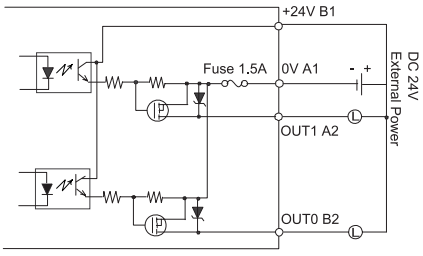
BUILT-IN DISCRETE I/O

6 Discrete Inputs, 2 Discrete Outputs Per Model

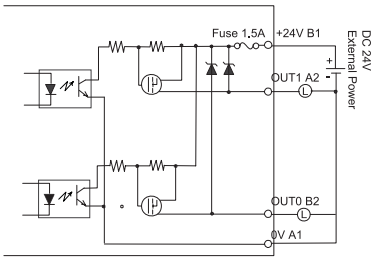


*1 Dotted line shows connection to sink output type.

Discrete Input Connection



Discrete Output Connection (Sink Configuration)



Discrete Output Connection (Source Configuration)

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AGP3300T D81K/D81C SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

Model		AGP3300-T1-D24-D81K/D81C
Display	Type	TFT Color LCD
	Colors	65536 colors (no blink) / 16384 colors (3-speed blink)
	Backlight	CCFL Service life: 50,000 hrs. or more at 25°C (77°F) and 24 hrs. operation
	Resolution	320 x 240 pixels
	Brightness Control	8 levels of adjustment available via touch panel
	Touch Panel	Resistive film analog 1024 x 1024 resolution
Memory	Application	6 MB FEPROM
	Data Backup	320KB SRAM
Interfaces	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin plug D-sub, Data Transmission Speed: 2400 to 115.2 Kbps
	Serial (COM 2) Interface	RS-422/485, 9 pin socket D-sub, Data Transmission Speed: 2400 to 115.2 Kbps (MPI Direct 187.5 Kbps)
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)
	Communication Module Interface	Interface port for optional communication modules.
	USB Interface	1 port USB1.1 Host I/F, USB TYPE-A connector
	Discrete 6 In 2 Out Interface	Connect to an I/O device. 6 Input pts 24VDC, Rated:5.7 mA. 2 Outputs 24V DC, Rated:24VDC @ 200mA/pt.
	CF Card Interface	1 slot CompactFlash™, TYPE II

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24V DC
	Rated Voltage Range	19.2V DC to 28.8V DC
	Power Consumption	26W or less
Environmental	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)
	Storage Temperature	-20°C (-4°F) to 60°C (140°F)
	Storage Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)
	Altitude Operation	800hPa to 1114hPa (2000 meters or lower)
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s^2, X,Y, Z directions for 10 times (80min.)
Structural	Ratings	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Coolant Spraying and Splashing")
	Certifications	CE, CSA, UL Listed Cl 1 Div 2
	External Dimensions	W167.4mm[6.59in.] x H135mm [5.31in.] x D59.5mm [2.34in.]
	Weight	1.0kg (2.2lb) or less

CUT-OUT COMPATIBILITY

16 Years of Cut-Out Compatibility

Old model

AGP3000 model "Drop-in"

Panel cutout dimensions

Size (mm) / Series	156x123.5 mm
GP77R Series	GP377R Series
GP2000 Series	GP2300/ GP2301 Series
GP3000 Series	GP-3300 Series

Investment Protection

SOFTWARE COMPATIBILITY

POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software (V.1.10 or higher)

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3300-T1-D24-D81K	5.7" TFT, 2 Serial, 1 USB, Ethernet, Discrete 6 in 2 Out (Sink), 24V
AGP3300-T1-D24-D81C	5.7" TFT, 2 Serial, 1 USB, Ethernet, Discrete 6 in 2 Out (Source), 24V

OPTIONAL ACCESSORIES

HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
CA3-DFS6-01	Overlay Screen protection sheets (5 sheets/pack)
PLC Cables & Accessories	*See AGP3000 Connectivity Document*

Xycom Automation
Ph: 734-429-4971
Fax: 734-429-1010
http://www.xycom.com

Customer Support Hotline:
734-944-0482

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AGP3300-T1-D24-FN1M

AGP3300T FN1M Integrated HMI Controller

5.7" Integrated Control Operator Interface with Dual Channel Flex Network Port

- 65,536 Colors TFT, Clear, Bright, High-Resolution TFT Display
- 64-bit RISC 133Mhz CPU for Ultra-Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Two Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
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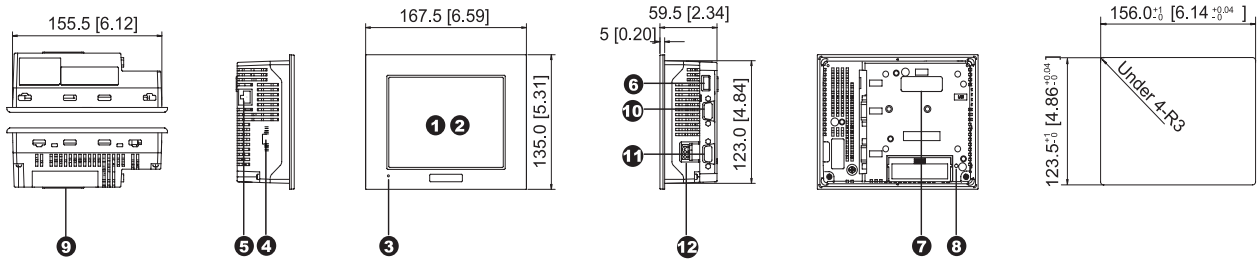
PRODUCT OVERVIEW



AGP-3300T(AC type) unit shown.

❶ **Display**

❷ **Touch Panel**

❸ **Status LED**

❹ **FLEX NETWORK Interface**
2 ch. Flex Network interface for use with FN-xxx distributed I/O modules.

❺ **10/100 Base-T Ethernet Interface (LAN)** (RJ45)

❻ **USB 1.1 Type A Interface (Host)**
One Port for download, bar-code, printer or other USB device

❼ **Optional Communication Module Interface 2**

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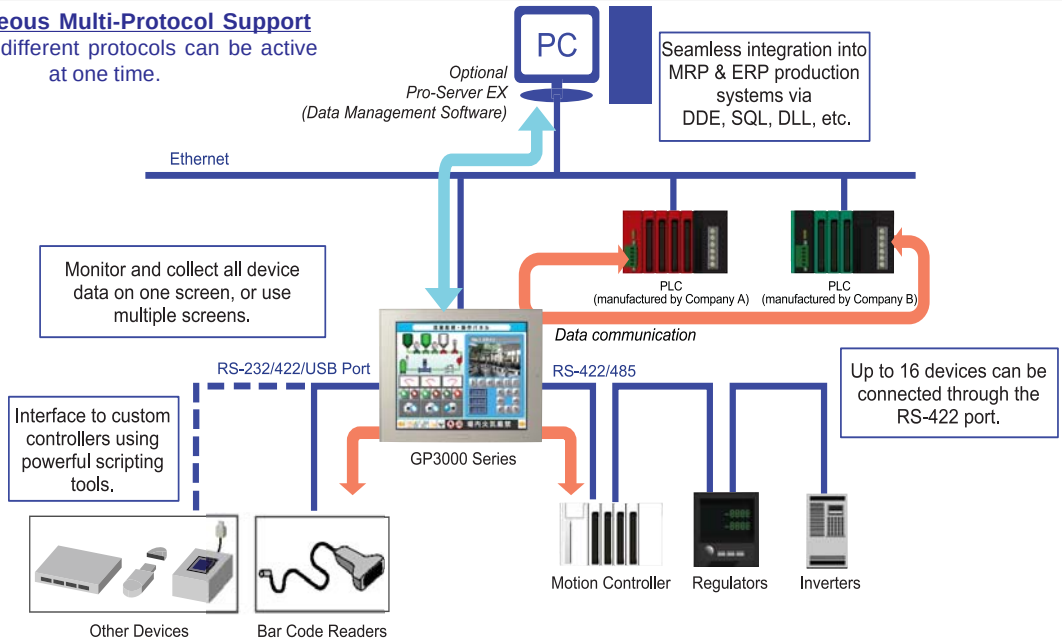

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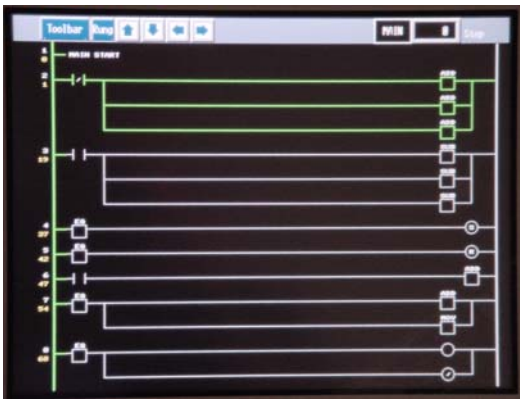
AGP3300T FN1M CONTINUED

INTEGRATED MONITOR CONTROL

ONLINE LOGIC PROGRAM MONITORING FEATURE



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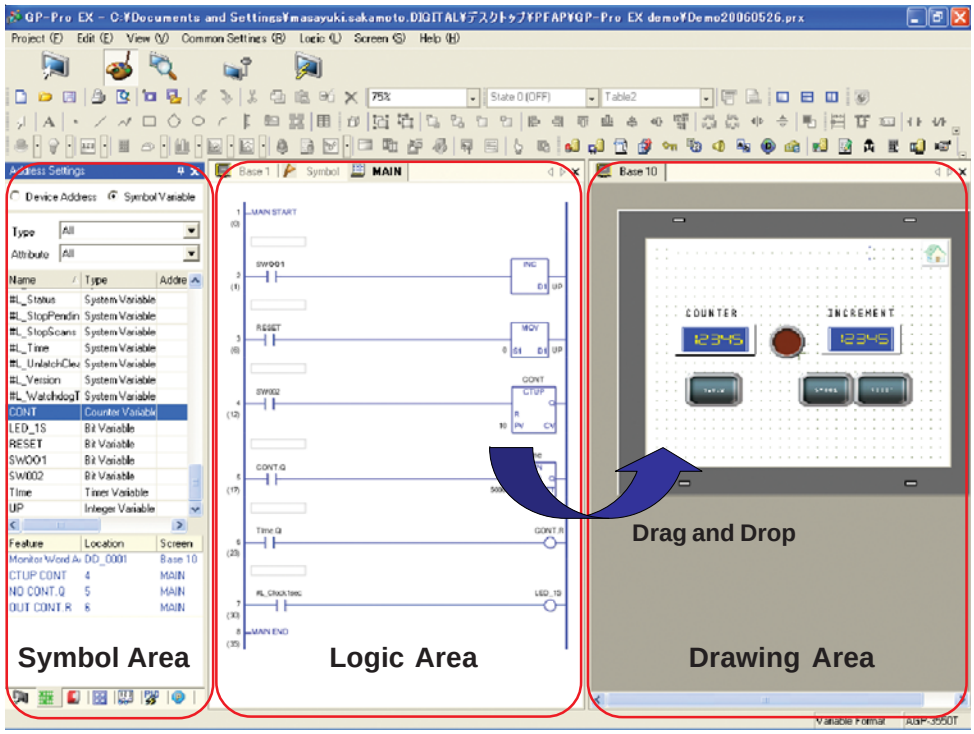

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Drag and Drop

Drag contact or coil to quickly create a graphical switch or lamp.

Re-usable sub-routines

Reduce steps for product programming development and maintenance using sub-routines.

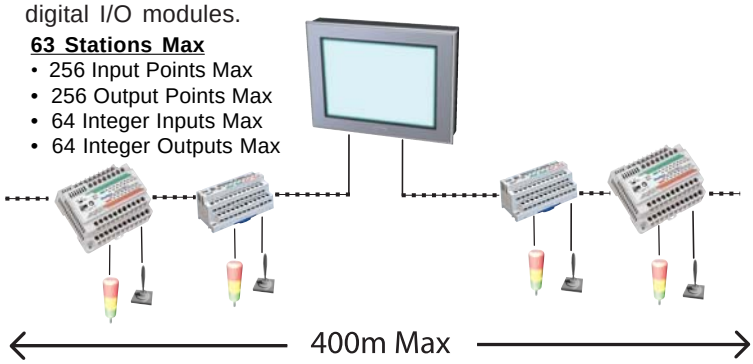
Screen Editor GP-Pro EX

DISTRIBUTED I/O MODULES

Features include: timers, counters, logical operations, mathmatical, bit operation, etc. Mix and match any combination of analog and digital I/O modules.

63 Stations Max

- 256 Input Points Max
- 256 Output Points Max
- 64 Integer Inputs Max
- 64 Integer Outputs Max



FLEX NETWORK MODULES

Monitor & Control

- For distributed I/O applications.
- Supports the Flex Network Analog and Discrete I/O Modules.

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

AGP3300T FN1M SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

Model		AGP3300-T1-D24-FN1M
Display	Type	TFT Color LCD
	Colors	65536 colors (no blink) / 16384 colors (3-speed blink)
	Backlight	CCFL Service life: 50,000 hrs. or more at 25°C (77°F) and 24 hrs. operation
	Resolution	320 x 240 pixels
	Brightness Control	8 levels of adjustment available via touch panel
	Touch Panel	Resistive film analog 1024 x 1024 resolution
Memory	Application	6 MB FEPROM
	Data Backup	320KB SRAM
Interfaces	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin plug D-sub, Data Transmission Speed: 2400 to 115.2 kbps
	Serial (COM 2) Interface	RS-422/485, 9 pin socket D-sub, Data Transmission Speed: 2400 to 115.2 kbps (MPI Direct 187.5 kbps)
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)
	USB Interface	1 port USB1.1 Host I/F, USB TYPE-A connector
	Flex Network Interface	Connect to Flex Network distributed I/O modules: 2 channel, 200m per channel. Speed: 6Mbs, 12Mbs. Bit variable Input/Output: 512pts max. Integer Variable Input/Output: 128 pts max.
	CF Card Interface	1 slot CompactFlash™, TYPE II

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24V DC
	Rated Voltage Range	19.2V DC to 28.8V DC
	Power Consumption	26W or less
Environmental	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)
	Storage Temperature	-20°C (-4°F) to 60°C (140°F)
	Storage Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)
	Altitude Operation	800hPa to 1114hPa (2000 meters or lower)
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s^2, X,Y, Z directions for 10 times (80min.)
Structural	Ratings	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Coolant Spraying and Splashing")
	Certifications	CE, CSA, UL Listed Cl 1 Div 2
	External Dimensions	W167.4mm[6.59in.] x H135mm [5.31in.] x D59.5mm [2.34in.]
	Weight	1.0kg (2.2lb) or less

CUT-OUT COMPATIBILITY

16 Years of Cut-Out Compatibility

Old model

AGP3000 model "Drop-in"

Panel cutout dimensions

Size (mm) / Series	156x123.5 mm
GP77R Series	GP377R Series
GP2000 Series	GP2300/ GP2301 Series
GP3000 Series	GP-3300 Series

Investment Protection

SOFTWARE COMPATIBILITY

POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3300-T1-D24-FN1M	5.7" TFT, 2 Serial, 1 USB, Ethernet, Flex Network, 24V

OPTIONAL ACCESSORIES

HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
CA3-DFS6-01	Overlay Screen protection sheets (5 sheets/pack)
PLC Cables & Accessories	*See AGP3000 Connectivity Document*

Xycom Automation
Ph: 734-429-4971
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http://www.xycom.com

Customer Support Hotline:
734-944-0482

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AGP3400-S1-D24-D81K

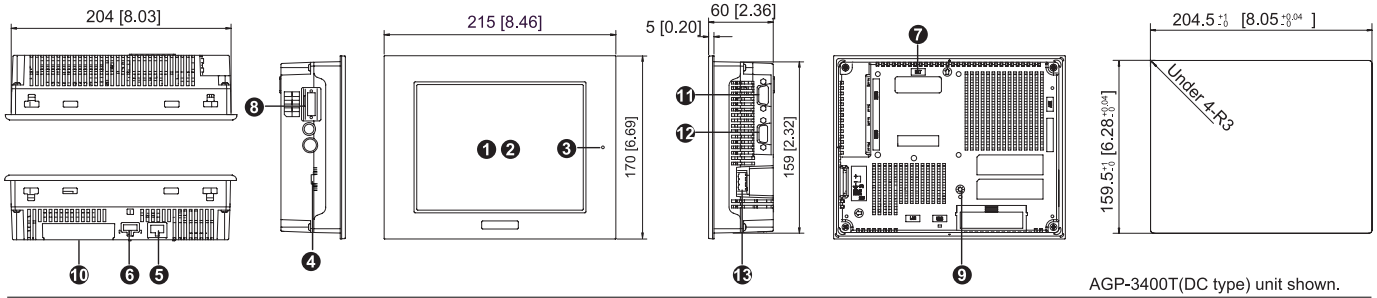
AGP3400-S1-D24-D81C

AGP3400S D81K/D81C Integrated HMI Controller

7.5" Integrated Control Operator Interface with Built-In Discrete I/O

- All-in-One HMI and PLC with Built-in 6 discrete inputs and 2 discrete outputs
- 5096 Colors, Clear, Bright, High-Resolution STN Display
- 64-bit RISC 266Mhz CPU for Ultra-Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Four Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 10/100 Base-T Ethernet, USB, (MPI) Serial and CompactFlash™ Communication Interfaces
- High-Definition Part Images and Multi-Language Support

PRODUCT OVERVIEW



AGP-3400T(DC type) unit shown.

❶ **Display**

❷ **Touch Panel**

❸ **Status LED**

❹ **Discrete I/O Interface**
6 Discrete Inputs, 2 Discrete Outputs Built-in.

❺ **10/100 Base-T Ethernet Interface (LAN)** (RJ45)

❻ **USB Interface (Host)**
Conforms to USB1.1. (TYPE-A conn.) 2 ports for data transfer cable, USB-compatible printer, or barcode reader,etc. The maximum communication distance is 5m.

❼ **Optional Communication Module Interface 2**

❽ **Discrete input/output and Audio Output Interface**
Pluggable connector for External Reset, Alarm Output, Buzzer Output, and sound output.

❾ **CompactFlash Card Access LED**
This lamp will light when CF card is inserted and CF card cover is closed, or while accessing the CF card when the cover is opened.

❿ **CompactFlash Card Access Cover**
The CF Card I/F and Dip Switches are located behind the access door. This cover must be closed when reading and writing to the CF Card.

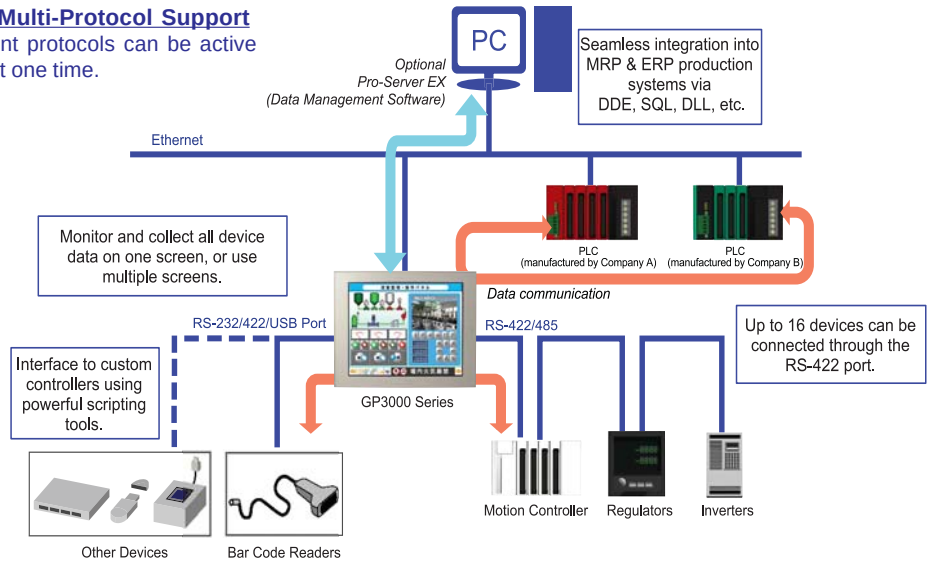
⓫ **Serial Interface (COM1)**
RS-232C/RS-422 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.

⓬ **Serial Interface (COM2)**
RS-422/RS-485 (MPI 187kbps to 12mbps) serial interface. D-sub 9-pin socket type connector.

⓭ **Power Plug Connector**
Power cable is connected to this connector.

COMMUNICATION CAPABILITY

Simultaneous Multi-Protocol Support
Up to four different protocols can be active at one time.



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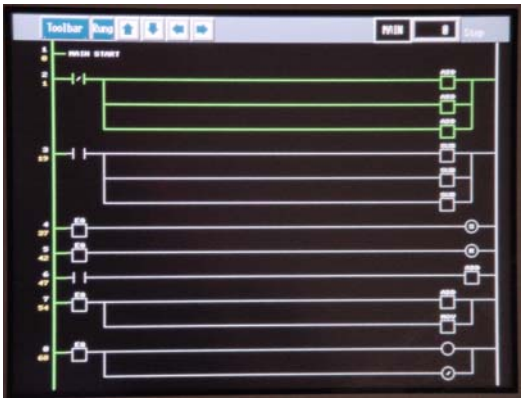
AGP3400S D81K/D81C CONTINUED

INTEGRATED MONITOR CONTROL

ONLINE LOGIC PROGRAM MONITORING FEATURE

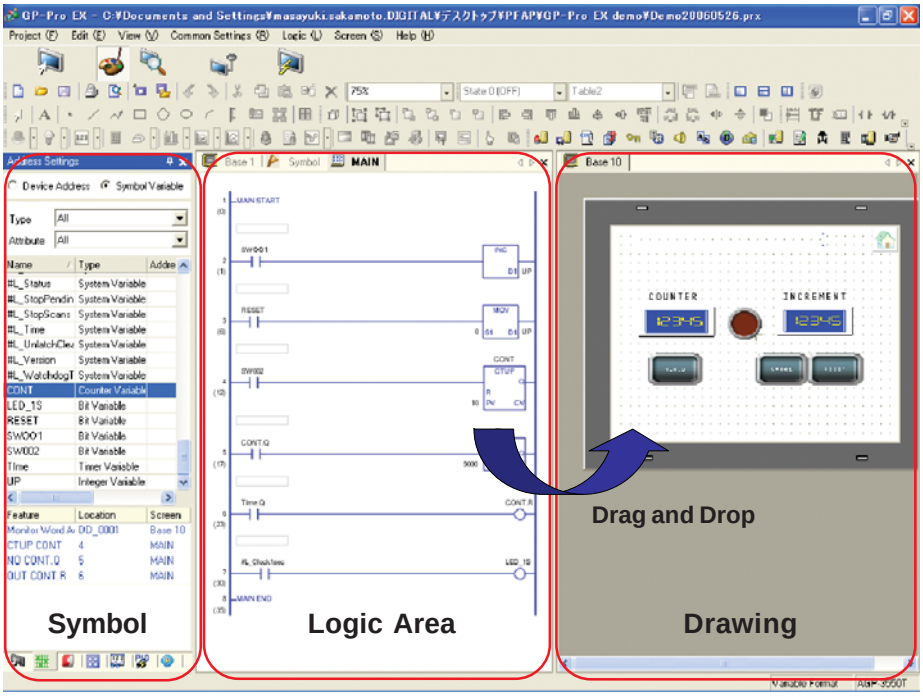


Detect Problems Faster

- View logic Programming on HMI while running. "No need for a laptop!"
- Verify current values of all variables live
- Quickly identify sequential logic faults
- Helps optimize Programming & Processes
- View logic in English or Japanese

POWERFUL LOGIC PROGRAMMING

With GP-Pro EX, you can develop logic programs as well as screen creation. You can also import existing logic programs created with the GP-PRO/PBIII C-Package.



Time Saving Steps

Drag and Drop

Drag contact or coil to quickly create a graphical switch or lamp.

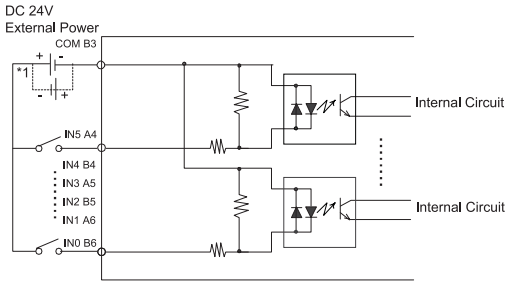
Re-usable sub-routines

Reduce steps for product programming development and maintenance using sub-routines.

Screen Editor GP-Pro EX

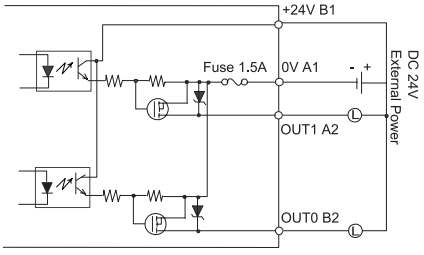
BUILT-IN DISCRETE I/O

6 Discrete Inputs, 2 Discrete Outputs Per Model

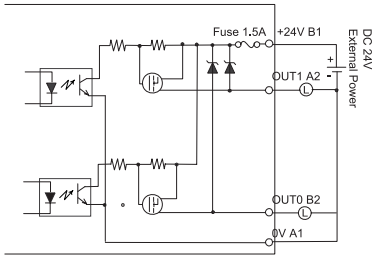


*1 Dotted line shows connection to sink output type.

Discrete Input Connection



Discrete Output Connection (Sink Configuration)



Discrete Output Connection (Source Configuration)

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AGP3400S D81K/D81C SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

Model		AGP3400-S1-D24-D81K/D81C
Display	Type	STN Color LCD
	Colors	4096colors (no blink)/(3-speed blink)
	Backlight	User replaceable CCFL (Service life: 54,000 hrs. or more at 25°C (77°F) and 24 hrs. operation)
	Resolution	640 x 480 pixels
	Brightness Control	8 levels of adjustment available via touch panel
	Touch Panel	Resistive film analog 1024 x 1024 resolution
Memory	Application	8MB FEPROM
	Data Backup	320KB SRAM
Interfaces	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin plug D-sub, Data Transmission Speed: 2400 to 115.2 Kbps
	Serial (COM 2) Interface	RS-422/485, 9 pin socket D-sub, Data Transmission Speed: 2400 to 115.2 Kbps (MPI Direct 187.5 Kbps)
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)
	Communication Module Interface	Interface port for optional communication modules.
	USB Interface	1 port USB1.1 Host I/F, USB TYPE-A connector
	CF Card Interface	1 slot CompactFlash™, TYPE II
	Sound Output	Speaker ouput 70mW (Rated Load: 8ohm, Frequency: 1kHz)
	Discrete 6 In 2 Out Interface	Connect to an I/O device. 6 Input pts 24VDC, Rated:5.7 mA. 2 Outputs 24V DC, Rated:24VDC @ 200mA/pt.
	AUX Input/Output	AUX Discrete Output: Alarm Output, RUN Output, Buzzer Output, Rated: DC24V @ 50mA AUX Discrete Input: Remote Reset Input, Rated: DC24V @ 6mA

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24V DC
	Rated Voltage Range	19.2V DC to 28.8V DC
	Power Consumption	28W or less
Environmental	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)
	Storage Temperature	-20°C (-4°F) to 60°C (140°F)
	Storage Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)
	Altitude Endurance	800hPa to 1114hPa (2000 meters or lower)
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s^2, X,Y, Z directions for 10 times (100min.)
Structural	Ratings	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Coolant Spraying and Splashing")
	Certifications	CE, CSA, UL Listed Cl 1 Div 2 Groups A, B, C, D
	External Dimensions	W215mm[8.46in.] x H170mm [6.69in.] x D60mm [2.36in.]
	Weight	1.8kg (4.0lb) or less

CUTOUT COMPATIBILITY

16 Years of Cut-Out Compatibility

Old model

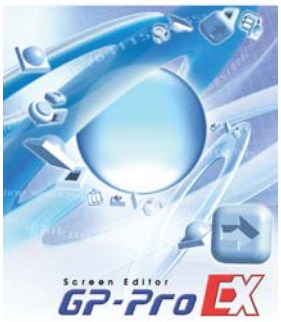
AGP3000 model "Drops In"

Panel cutout dimensions

Size / Series name	204.5x159.5 mm
GP77R Series	—
GP2000 Series	GP2400/01 Series
GP3000 Series	GP-3400 Series

Investment Protection

SOFTWARE COMPATIBILITY



POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software

(V.1.10 or higher)

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3400-S1-D24-D81K	7.5" TFT, 2 Serial, 1 USB, Ethernet, Discrete 6 In 2 Out (Sink), 24VDC
AGP3400-S1-D24-D81C	7.5" TFT, 2 Serial, 1 USB, Ethernet, Discrete 6 In 2 Out (Source), 24VDC

OPTIONAL ACCESSORIES

HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
PS400-DF00	Overlay Screen Protection Sheets (5 sheets/pack)
PLC Cables & Accessories	*See AGP3000 Connectivity Document*

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Fax: 734-429-1010
http://www.xycom.com

Customer Support Hotline:
734-944-0482

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AGP3400-T1-D24-D81K

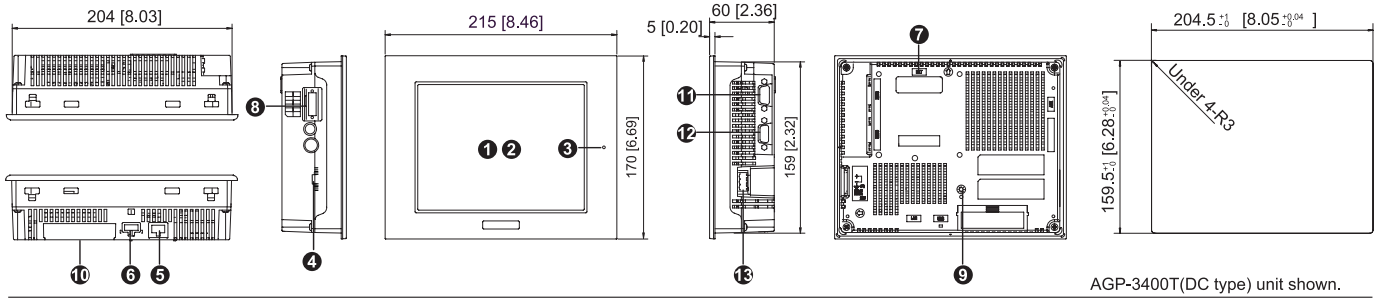
AGP3400-T1-D24-D81C

AGP3400T D81K/D81C Integrated HMI Controller

7.5" Integrated Control Operator Interface with Built-In Discrete I/O

- All-in-One HMI and PLC with Built-in 6 discrete inputs and 2 discrete outputs
- 65,536 Colors, Clear, Bright, High-Resolution TFT Display
- 64-bit RISC 266Mhz CPU for Ultra-Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Four Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 10/100 Base-T Ethernet, USB, (MPI) Serial and CompactFlash™ Communication Interfaces
- Audio Output, Alarm, Buzzer Remote Reset Interfaces

PRODUCT OVERVIEW



AGP-3400T(DC type) unit shown.

❶ **Display**

❷ **Touch Panel**

❸ **Status LED**

❹ **Discrete I/O Interface**
6 Discrete Inputs, 2 Discrete Outputs Built-in.

❺ **10/100 Base-T Ethernet Interface (LAN)** (RJ45)

❻ **USB Interface (Host)**
Conforms to USB1.1. (TYPE-A conn.) 2 ports for data transfer cable, USB-compatible printer, or barcode reader,etc. The maximum communication distance is 5m.

❼ **Optional Communication Module Interface 2**

❽ **Discrete input/output and Audio Output Interface**
Pluggable connector for External Reset, Alarm Output, Buzzer Output, and sound output.

❾ **CompactFlash Card Access LED**
This lamp will light when CF card is inserted and CF card cover is closed, or while accessing the CF card when the cover is opened.

❿ **CompactFlash Card Access Cover**
The CF Card I/F and Dip Switches are located behind the access door. This cover must be closed when reading and writing to the CF Card.

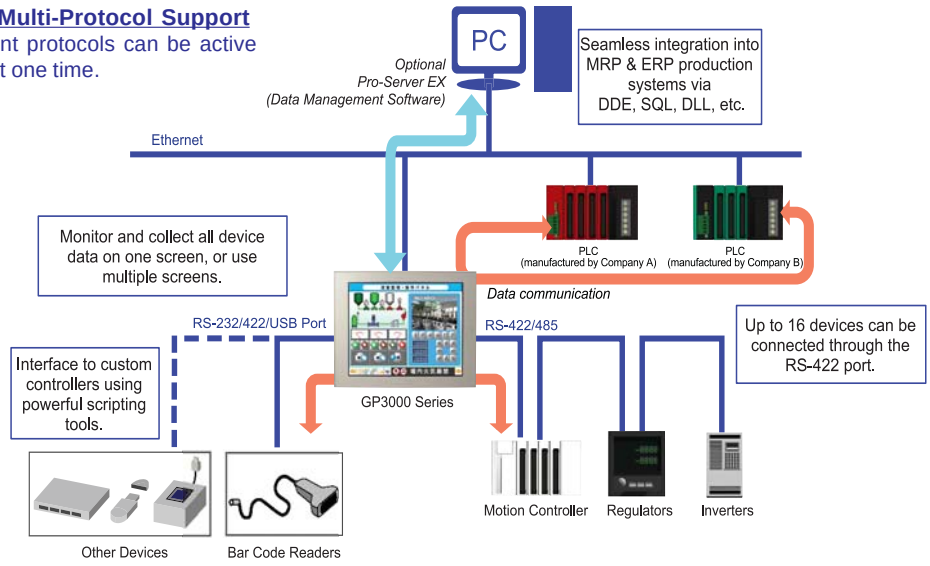
⓫ **Serial Interface (COM1)**
RS-232C/RS-422 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.

⓬ **Serial Interface (COM2)**
RS-422/RS-485 (MPI 187kbps to 12mbps) serial interface. D-sub 9-pin socket type connector.

⓭ **Power Plug Connector**
Power cable is connected to this connector.

COMMUNICATION CAPABILITY

Simultaneous Multi-Protocol Support
Up to four different protocols can be active at one time.



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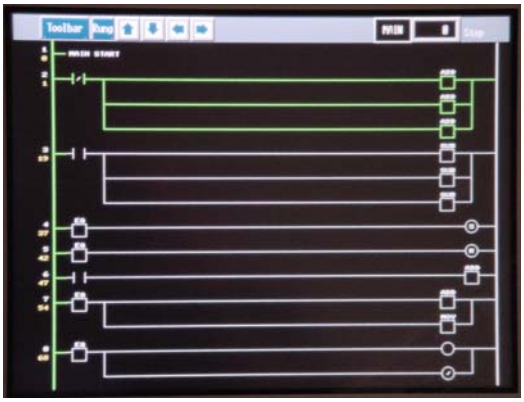
AGP3400T D81K / D81C CONTINUED

INTEGRATED MONITOR CONTROL

ONLINE LOGIC PROGRAM MONITORING FEATURE

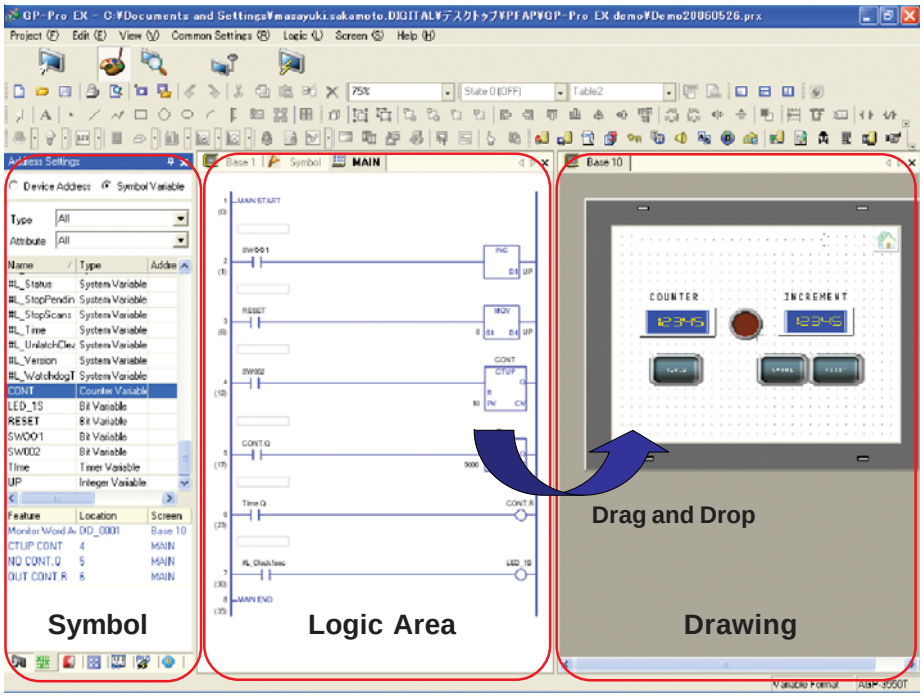


Detect Problems Faster

- View logic Programming on HMI while running. "No need for a laptop!"
- Verify current values of all variables live
- Quickly identify sequential logic faults
- Helps optimize Programming & Processes
- View logic in English or Japanese

POWERFUL LOGIC PROGRAMMING

With GP-Pro EX, you can develop logic programs as well as screen creation. You can also import existing logic programs created with the GP-PRO/PBIII C-Package.



Time Saving Steps

Drag and Drop

Drag contact or coil to quickly create a graphical switch or lamp.

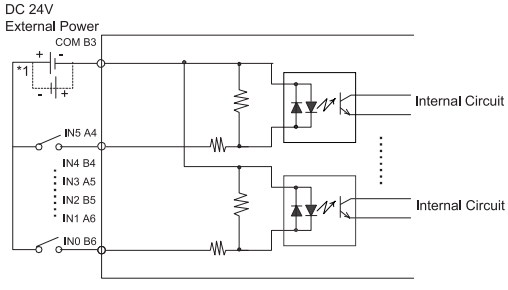
Re-usable sub-routines

Reduce steps for product programming development and maintenance using sub-routines.

Screen Editor GP-Pro EX

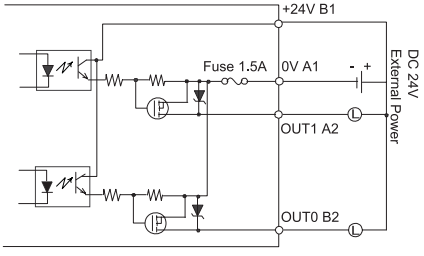
BUILT-IN DISCRETE I/O

6 Discrete Inputs, 2 Discrete Outputs Per Model

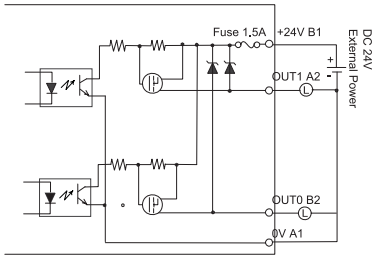


*1 Dotted line shows connection to sink output type.

Discrete Input Connection



Discrete Output Connection (Sink Configuration)



Discrete Output Connection (Source Configuration)

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AGP3400T D81K/D81C SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

Model		AGP3400-T1-D24-D81K/D81C
Display	Type	TFT Color LCD
	Colors	65536 colors (no blink) / 16384 colors (3-speed blink)
	Backlight	User replaceable CCFL (Service life: 54,000 hrs. or more at 25°C (77°F) and 24 hrs. operation)
	Resolution	640 x 480 pixels
	Brightness Control	8 levels of adjustment available via touch panel
	Touch Panel	Resistive film analog 1024 x 1024 resolution
Memory	Application	8MB FEPROM
	Data Backup	320KB SRAM
Interfaces	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin plug D-sub, Data Transmission Speed: 2400 to 115.2 Kbps
	Serial (COM 2) Interface	RS-422/485, 9 pin socket D-sub, Data Transmission Speed: 2400 to 115.2 Kbps (MPI Direct 187.5 Kbps)
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)
	Communication Module Interface	Interface port for optional communication modules.
	USB Interface	1 port USB1.1 Host I/F, USB TYPE-A connector
	CF Card Interface	1 slot CompactFlash™, TYPE II
	Sound Output	Speaker ouput 70mW (Rated Load: 8ohm, Frequency: 1kHz)
	Discrete 6 In 2 Out Interface	Connect to an I/O device. 6 Input pts. 24VDC, Rated:5.7 mA. 2 Outputs 24V DC, Rated:24VDC @ 200mA/pt.
	AUX Input/Output	AUX Discrete Output: Alarm Output, RUN Output, Buzzer Output, Rated: DC24V @ 50mA AUX Discrete Input: Remote Reset Input, Rated: DC24V @ 6mA

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24V DC
	Rated Voltage Range	19.2V DC to 28.8V DC
	Power Consumption	28W or less
Environmental	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)
	Storage Temperature	-20°C (-4°F) to 60°C (140°F)
	Storage Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)
	Altitude Endurance	800hPa to 1114hPa (2000 meters or lower)
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s^2, X,Y, Z directions for 10 times (100min.)
Structural	Ratings	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Coolant Spraying and Splashing")
	Certifications	CE, CSA, UL Listed Cl 1 Div 2 Groups A, B, C, D
	External Dimensions	W215mm[8.46in.] x H170mm [6.69in.] x D60mm [2.36in.]
	Weight	1.8kg (4.0lb) or less

CUTOUT COMPATIBILITY

16 Years of Cut-Out Compatibility

Old model

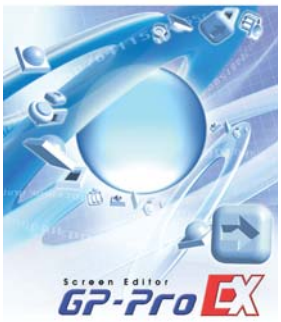
AGP3000 model "Drops In"

Panel cutout dimensions

Size / Series name	204.5x159.5 mm
GP77R Series	—
GP2000 Series	GP2400/01 Series
GP3000 Series	GP-3400 Series

Investment Protection

SOFTWARE COMPATIBILITY



POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software

(V.1.10 or higher)

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3400-T1-D24-D81K	7.5" TFT, 2 Serial, 1 USB, Ethernet, Discrete 6 In 2 Out (Sink), 24VDC
AGP3400-T1-D24-D81C	7.5" TFT, 2 Serial, 1 USB, Ethernet, Discrete 6 In 2 Out (Source), 24VDC

OPTIONAL ACCESSORIES

HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
PS400-DF00	Overlay Screen Protection Sheets (5 sheets/pack)
PLC Cables & Accessories	*See AGP3000 Connectivity Document*

Xycom Automation
Ph: 734-429-4971
Fax: 734-429-1010
http://www.xycom.com

Customer Support Hotline:
734-944-0482

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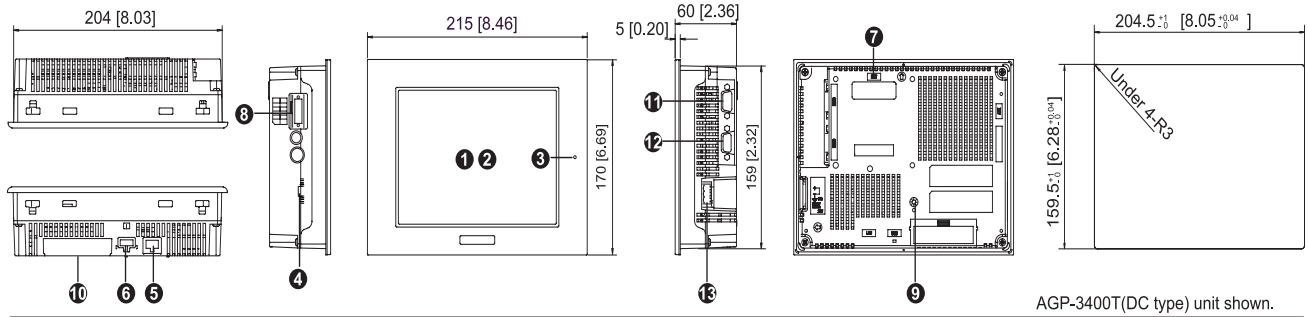
AGP3400-T1-D24-FN1M

AGP3400T FN1M Integrated HMI Controller

7.5" Integrated Control Operator Interface with Dual Channel Flex Network Port

- 65,536 Colors, Clear, Bright, High-Resolution TFT Display
- 64-bit RISC 266Mhz CPU for Ultra-Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Four Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 10/100 Base-T Ethernet, USB, (MPI) Serial and CompactFlash™ Communication Interfaces
- Includes Audio Output, Alarm/Buzzer Output, External Reset Input
- High-Definition Part Images and Multi-Language Support

PRODUCT OVERVIEW



AGP-3400T(DC type) unit shown.

❶ **Display**

❷ **Touch Panel**

❸ **Status LED**

❹ **FLEX NETWORK Interface**
2 ch. Flex Network interface for use with FN-xxx distributed I/O modules.

❺ **10/100 Base-T Ethernet Interface (LAN)** (RJ45)

❻ **USB Interface (Host)**
Conforms to USB1.1. (TYPE-A conn.) 2 ports for data transfer cable, USB-compatible printer, or barcode reader,etc. The maximum communication distance is 5m.

❼ **Optional Communication Module Interface 2**

❽ **Discrete input/output and Audio Output Interface**
Pluggable connector for External Reset, Alarm Output, Buzzer Output, and sound output.

❾ **CompactFlash Card Access LED**
This lamp will light when CF card is inserted and CF card cover is closed, or while accessing the CF card when the cover is opened.

❿ **CompactFlash Card Access Cover**
The CF Card I/F and Dip Switches are located behind the access door. This cover must be closed when reading and writing to the CF Card.

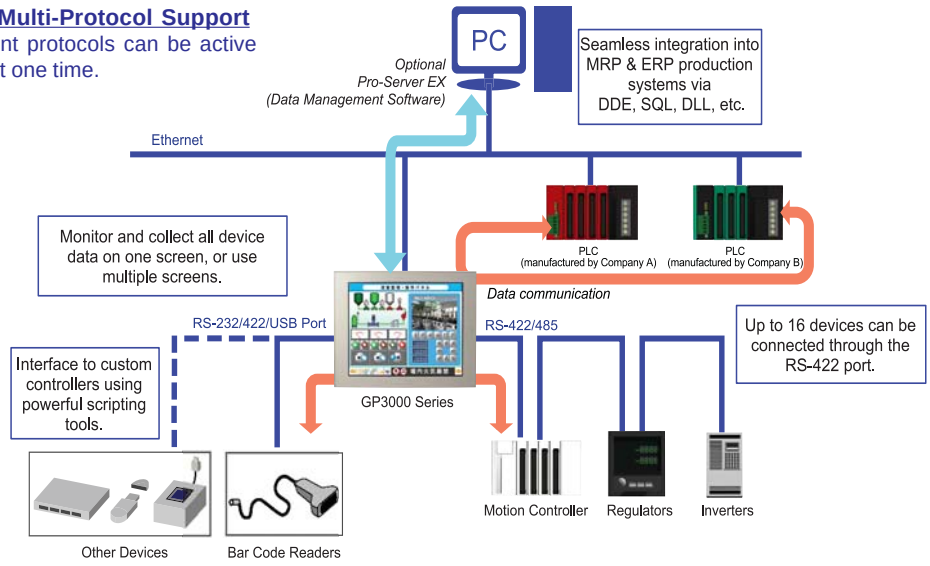
⓫ **Serial Interface (COM1)**
RS-232C/RS-422 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.

⓬ **Serial Interface (COM2)**
RS-422/RS-485 (MPI 187kbps to 12mbps) serial interface. D-sub 9-pin socket type connector.

⓭ **Power Plug Connector**
Power cable is connected to this connector.

COMMUNICATION CAPABILITY

Simultaneous Multi-Protocol Support
Up to four different protocols can be active at one time.



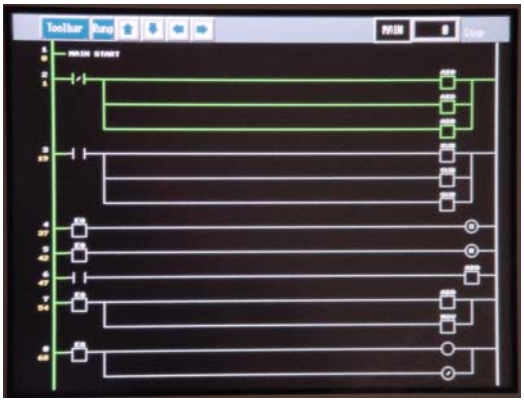
Pro-face XYCOM

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

AGP3400T FN1M CONTINUED

INTEGRATED MONITOR CONTROL

ONLINE LOGIC PROGRAM MONITORING FEATURE

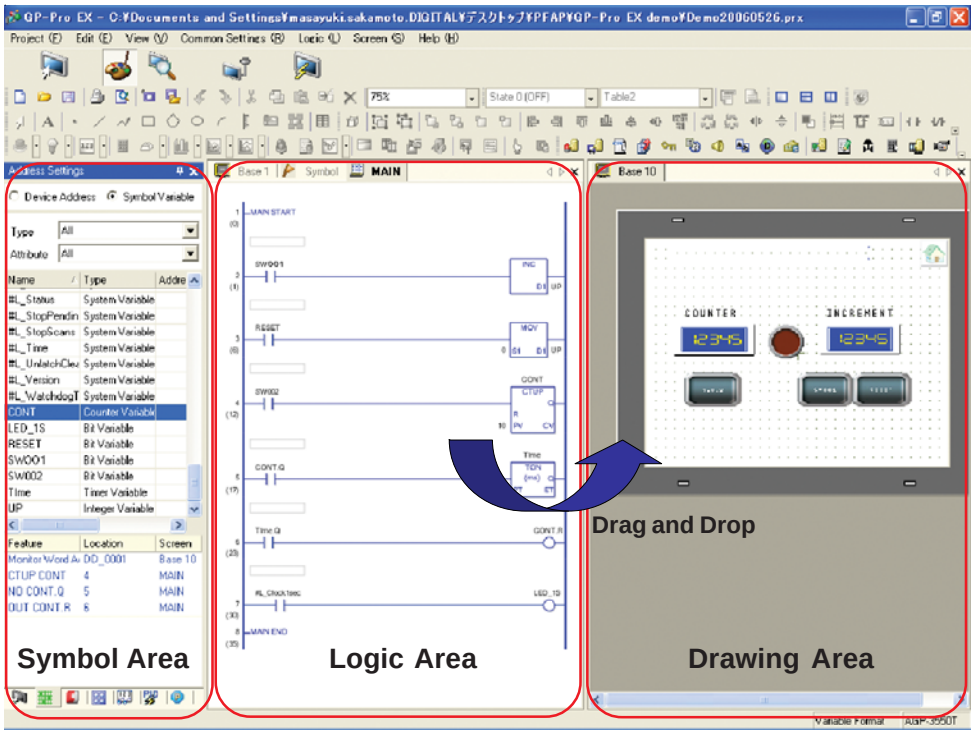


Detect Problems Faster

- View logic Programming on HMI while running. "No need for a laptop!"
- Verify current values of all variables live
- Quickly identify sequential logic faults
- Helps optimize Programming & Processes
- View logic in English or Japanese

POWERFUL LOGIC PROGRAMMING

With GP-Pro EX, you can develop logic programs as well as screen creation. You can also import existing logic programs created with the GP-PRO/PBIII C-Package.



Time Saving Steps

Drag and Drop

Drag contact or coil to quickly create a graphical switch or lamp.

Re-usable sub-routines

Reduce steps for product programming development and maintenance using sub-routines.

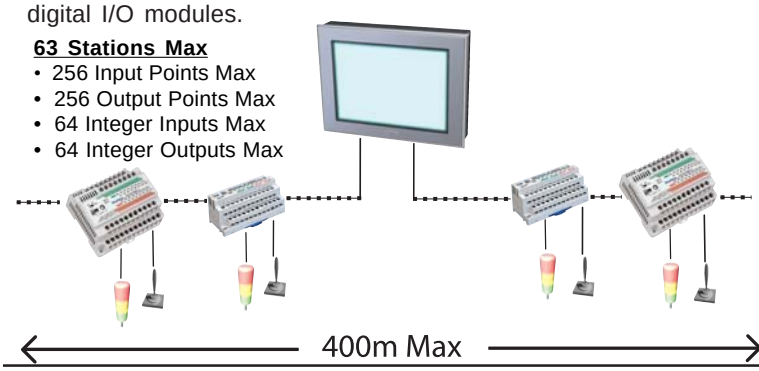
Screen Editor GP-Pro EX

DISTRIBUTED I/O MODULES

Features include: timers, counters, logical operations, mathmatical, bit operation, etc. Mix and match any combination of analog and digital I/O modules.

63 Stations Max

- 256 Input Points Max
- 256 Output Points Max
- 64 Integer Inputs Max
- 64 Integer Outputs Max



FLEX NETWORK MODULES

Monitor & Control

- For distributed I/O applications.
- Supports the Flex Network Analog and Discrete I/O Modules.

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AGP3400T FN1M SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

Model		AGP3400-T1-D24-FN1M
Display	Type	TFT Color LCD
	Colors	65536 colors (no blink) / 16384 colors (3-speed blink)
	Backlight	User replaceable CCFL (Service life: 54,000 hrs. or more at 25°C (77°F) and 24 hrs. operation)
	Resolution	640 x 480 pixels
	Brightness Control	8 levels of adjustment available via touch panel
	Touch Panel	Resistive film analog 1024 x 1024 resolution
Memory	Application	8MB FEPROM
	Data Backup	320KB SRAM
Interfaces	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin plug D-sub, Data Transmission Speed: 2400 to 115.2 kbps
	Serial (COM 2) Interface	RS-422/485, 9 pin socket D-sub, Data Transmission Speed: 2400 to 115.2 kbps (MPI Direct 187.5 kbps)
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)
	USB Interface	1 port USB1.1 Host I/F, USB TYPE-A connector
	CF Card Interface	1 slot CompactFlash™, TYPE II
	Sound Output	Speaker ouput 70mW (Rated Load: 8ohm, Frequency: 1kHz)
	Flex Network Interface	Connect to Flex Network distributed I/O modules: 2 channel, 200m per channel. Speed: 6Mbs, 12Mbs. Bit variable Input/Output: 512pts max. Integer Variable Input/Output: 128 pts max.
	AUX Input/Output	AUX Discrete Output: Alarm Output, RUN Output, Buzzer Output, Rated: DC24V @ 50mA AUX Discrete Input: Remote Reset Input, Rated: DC24V @ 6mA Operating Voltage: ON State: DC9V or greater, OFF State: DC2.5V or less

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24V DC
	Rated Voltage Range	19.2V DC to 28.8V DC
	Power Consumption	28W or less
Environmental	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)
	Storage Temperature	-20°C (-4°F) to 60°C (140°F)
	Storage Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)
	Altitude Endurance	800hPa to 1114hPa (2000 meters or lower)
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s^2, X,Y, Z directions for 10 times (100min.)
Structural	Ratings	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Coolant Spraying and Splashing")
	Certifications	CE, CSA, UL Listed Cl 1 Div 2 Groups A, B, C, D
	External Dimensions	W215mm[8.46in.] x H170mm [6.69in.] x D60mm [2.36in.]
	Weight	1.8kg (4.0lb) or less

CUTOUT COMPATIBILITY

16 Years of Cut-Out Compatibility

Old model

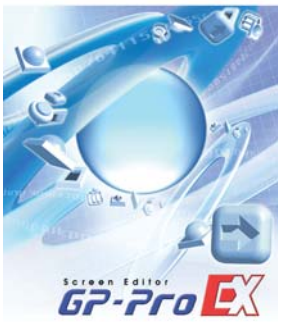
AGP3000 model "Drops In"

Panel cutout dimensions

Size / Series name	204.5x159.5 mm
GP77R Series	—
GP2000 Series	GP2400/01 Series
GP3000 Series	GP-3400 Series

Investment Protection

SOFTWARE COMPATIBILITY



POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3400-T1-D24-FN1M	7.5" TFT, 2 Serial, 1 USB, Ethernet, Flex Network, 24VDC

OPTIONAL ACCESSORIES

HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
PS400-DF00	Overlay Screen Protection Sheets (5 sheets/pack)
PLC Cables & Accessories	*See AGP3000 Connectivity Document*

Xycom Automation
Ph: 734-429-4971
Fax: 734-429-1010
http://www.xycom.com

Customer Support Hotline:
734-944-0482

Pro-face XYCOM

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PRO-FACE OPERATOR INTERFACES

product datasheet

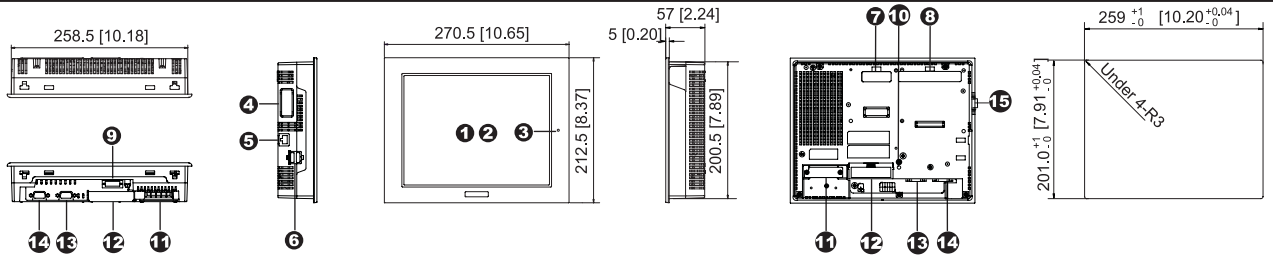
AGP3500-S1-AF-D81K
AGP3500-S1-AF-D81
AGP3500-S1-D24-D81K
AGP3500-S1-D24-D81C

AGP3500S D81K/D81C Integrated HMI Controller

10.4" Integrated Control Operator Interface with Built-In Discrete I/O

- All-in-One HMI and PLC with Built-in 6 discrete inputs and 2 discrete outputs
- 65,536 Colors, Clear, Bright, High-Resolution STN Display
- 64-bit RISC 266Mhz CPU for Ultra Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Four Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 10/100 Base-T Ethernet, USB, Serial (MPI) and CompactFlash™ Communication Interfaces
- Audio Output, Alarm, Buzzer Remote Reset Interfaces
- Video Camera Support using Optional GP2000-VM41 Video Mix Module

PRODUCT OVERVIEW



AGP-3500T (AC Type) Unit Shown.

❶ Display

❷ Touch Panel

❸ Status LED

❹ Expansion Communication Feature Interface 1

❺ 10/100 Base-T Ethernet Interface (LAN) (RJ45)

❻ USB Interface (Host)
Conforms to USB1.1. (TYPE-A conn.) 2 ports for data transfer cable, USB-compatible printer, or barcode reader,etc. The maximum communication distance is 5m.

❼ Optional Communication Module Interface 2

❽ Optional Video Mix Module Interface
Support for optional GP2000-VM41 4-Channel video camera input and RGB remote monitor output.*1

❾ Auxiliary input/output /Audio Output Interface (AUX)
This interface is External Reset, Alarm Output, Buzzer Output, and sound output.

❿ CF Card Access LED
This lamp will light when CF card is inserted and CF card cover is closed, or while accessing the CF card when the cover is opened.

⓫ Power Input Terminal Block
Connect the power cable.

⓬ CF Card Cover
The CF Card I/F and Dip Switches are located behind the access door. This cover must be closed when reading and writing to the CF Card.

⓭ Serial Interface (COM1)
RS-232C/RS-422 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.

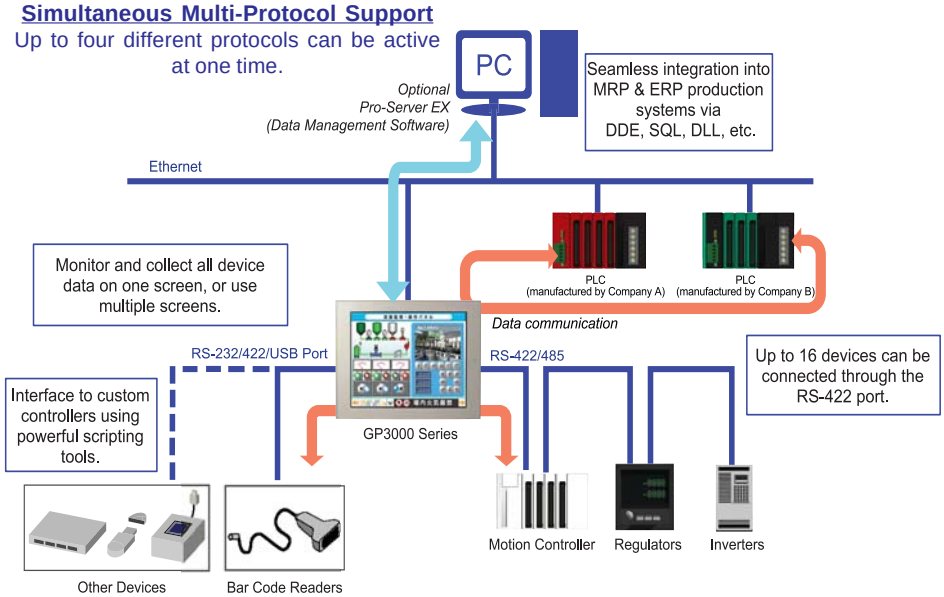
⓮ Serial Interface (COM2)
RS-422/RS-485 (MPI 187kbps) serial interface. D-sub 9-pin socket type connector.

⓯ Discrete I/O Interface
6 Discrete Inputs, 2 Discrete Outputs Built-in.

COMMUNICATION CAPABILITY

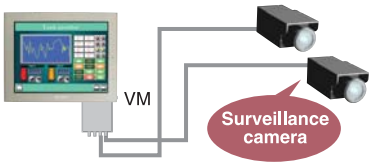
Simultaneous Multi-Protocol Support

Up to four different protocols can be active at one time.



Remote Video Monitoring

Add up to four additional cameras using optional GP2000-VM41 Video Mix Unit



Video images provide virtual on-site monitoring of line conditions.

Applications

- Inline Process Monitoring
- Machine Safety
- Security

Pro-face XYCOM

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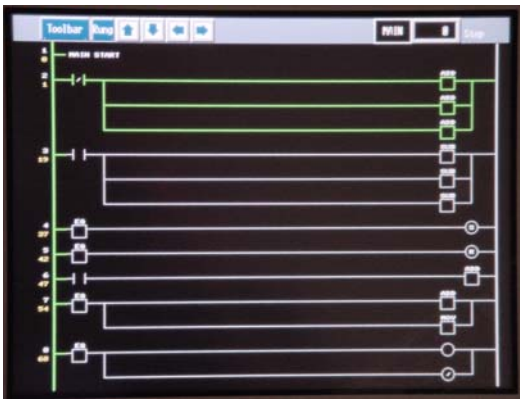
AGP3500S D81K/D81C CONTINUED

INTEGRATED MONITOR CONTROL

ONLINE LOGIC PROGRAM MONITORING FEATURE

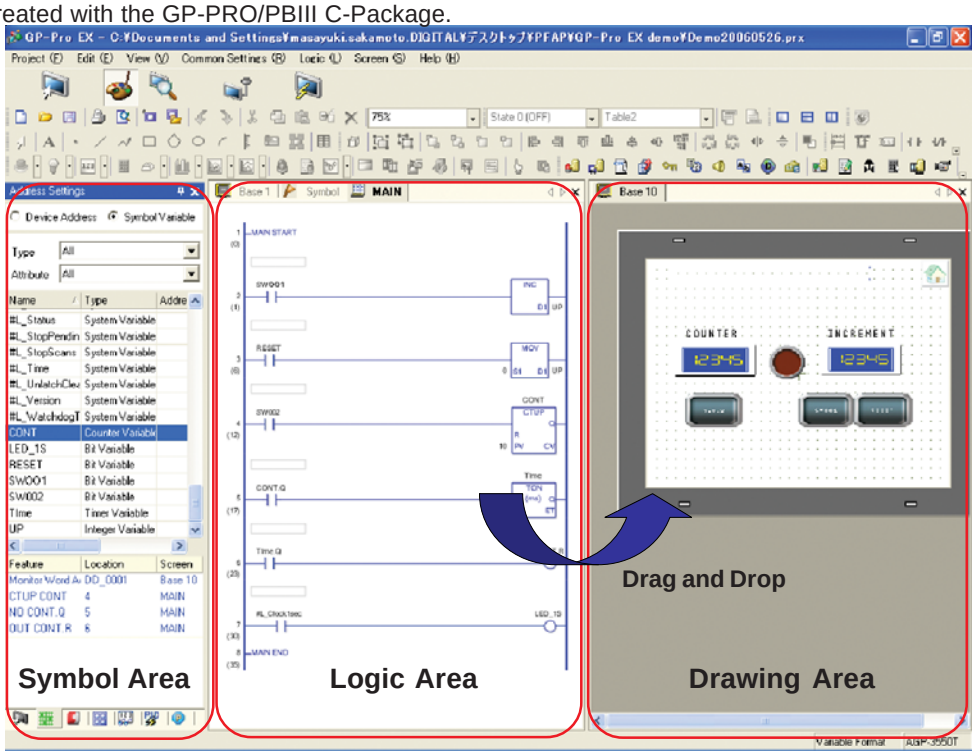


Detect Problems Faster

- View logic Programming on HMI while running. "No need for a laptop!"
- Verify current values of all variables live
- Quickly identify sequential logic faults
- Helps optimize Programming & Processes
- View logic in English or Japanese

POWERFUL LOGIC PROGRAMMING

With GP-Pro EX, you can develop logic programs as well as screen creation. You can also import existing logic programs created with the GP-PRO/PBIII C-Package.



Time Saving Steps

Drag and Drop

Drag contact or coil to quickly create a graphical switch or lamp.

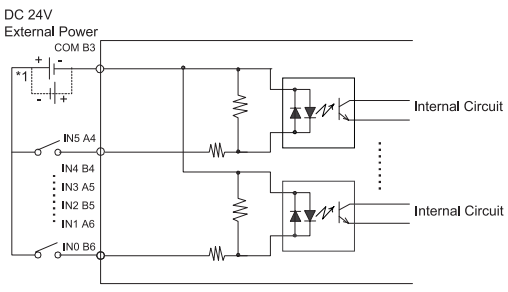
Re-usable sub-routines

Reduce steps for product programming development and maintenance using sub-routines.

Screen Editor GP-Pro EX

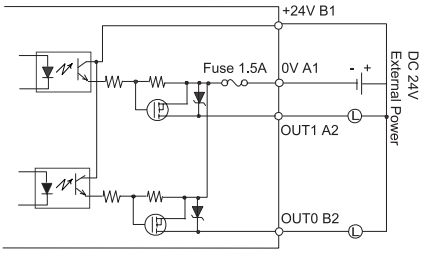
BUILT-IN DISCRETE I/O

6 Discrete Inputs, 2 Discrete Outputs Per Model

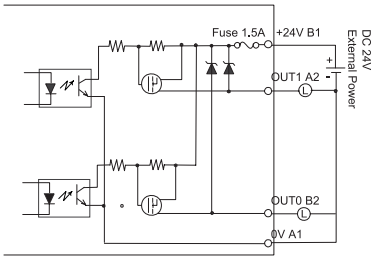


*1 Dotted line shows connection to sink output type.

Discrete Input Connection



Discrete Output Connection (Sink Configuration)



Discrete Output Connection (Source Configuration)

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AGP3500S D81K/D81C SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

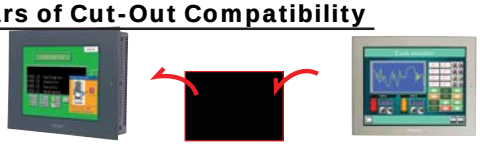
Model		AGP3500-S1-AF-D81K/D81C	AGP3500-S1-D24-D81K/D81C
Display	Type	STN Color LCD	
	Colors	65536 colors (no blink) / 16384 colors (3-speed blink)	
	Backlight	User replaceable CCFL (Service life: 50,000 hrs. or more at 25°C (77°F)and 24 hrs. operation)	
	Resolution	640 x 480 pixels	
	Brightness Control	8 levels of adjustment available via touch panel	
	Touch Panel	Resistive film analog 1024 x 1024 resolution	
Memory	Application	8MB FEPROM	
	Data Backup	320KB SRAM	
Interfaces	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin D-sub plug, Data Transmission Speed: 2400 to 115.2 kbps	
	Serial (COM 2) Interface	RS-422/485, 9 pin D-sub socket, Data Transmission Speed: 2400 to 115.2 kbps (MPI Direct 187.5 kbps)	
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)	
	Expansion Unit Interface	Interface port for future field networking solutions	
	USB Interface	2 ports USB1.1, USB TYPE-A connector	
	CF Card Interface	1 slot CompactFlash™, TYPE II	
	Sound Output	Speaker ouput 70mW (Rated Load: 8ohm, Frequency: 1kHz)	
	Video Mix Interface	Support for optional GP2000-VM41 4-Channel Video camera input and RGB remote monitor with output.	
	Discrete 6 In 2 Out Interface	Connect to an I/O device. 6 Input points 24VDC, Rated:5.7 mA. 2 Outputs 24V DC, Rated:DC 20.4V to 28.8V.	
	AUX Input/Output	AUX Discrete Output: Alarm Output, RUN Output, Buzzer Output, Rated: DC24V @ 50mA AUX Discrete Input: Remote Reset Input, Rated: DC24V @ 6mA Operating Voltage: ON State: DC9V or greater, OFF State: DC2.5V or less	

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	100V AC to 240V AC	24V DC
	Rated Voltage Range	85V AC to 265V AC	19.2V DC to 28.8V DC
	Power Consumption	100V AC 0.9A or less, 240V AC 0.45A or less	50W or less
Environmental	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)	
	Storage Temperature	-20°C (-4°F) to 60°C (140°F)	
	Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)	
	Altitude Operation	800hPa to 1114hPA (2000 meters or lower)	
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s^2, X,Y, Z directions for 10 times (100min.)	
Structural	Ratings	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Coolant Spraying and Splashing")	
	Certifications	CE, UL, cUL recognized (Cl 1 Div 2)	CE, UL Listed Cl 1 Div 2
	External Dimensions	W270.5mm[10.65in.] x H212.5mm [8.37in.] x D57mm [2.24in.]	
	Weight	2.5kg (5.5lb) or less	

CUTOUT COMPATIBILITY

16 Years of Cut-Out Compatibility



Old model

AGP3000 model "Drops in"

Panel cutout dimensions

Size / Series name	301.5x227.5 mm	259x201 mm
GP77R Series	GP577R Series	GP-477R EL
GP2000 Series	GP2600/01 GP2500/01 Series	—
GP3000 Series	GP-3600 GP-3500 Series (STN or Mono)	GP-3500* Series(TFT)

*Note: Drop-in replacement for GP477R EL Model.
To mount in a GP2500 cut-out, an adapter plate is required.

Investment Protection

SOFTWARE COMPATIBILITY

POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3500-S1-AF-D81K	10.4" STN, 2 Serial, 2 USB, Ethernet, 6 In 2 Out (Sink), 100-240AC
AGP3500-S1-AF-D81C	10.4" STN, 2 Serial, 2 USB, Ethernet, 6 In 2 Out (Source), 100-240AC
AGP3500-S1-D24-D81K	10.4" STN, 2 Serial, 2 USB, Ethernet, 6 In 2 Out (Sink), 24VDC
AGP3500-S1-D24-D81C	10.4" STN, 2 Serial, 2 USB, Ethernet, 6 In 2 Out (Source), 100-240AC
OPTIONAL ACCESSORIES	
HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
CA5-DFS10-01	Overlay Screen Protection Sheets (5 sheets/pack)
CA4-ATM10-01	Panel Adapter Plate for mounting AGP3500T in a GP2500 Cut-out
PLC Cables & Accessories	*See AGP3000 Connectivity Document*

Xycom Automation
Ph: 734-429-4971
Fax: 734-429-1010
http://www.xycom.com

Customer Support Hotline:
734-944-0482

Pro-face XYCOM

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PRO-FACE OPERATOR INTERFACES

product datasheet

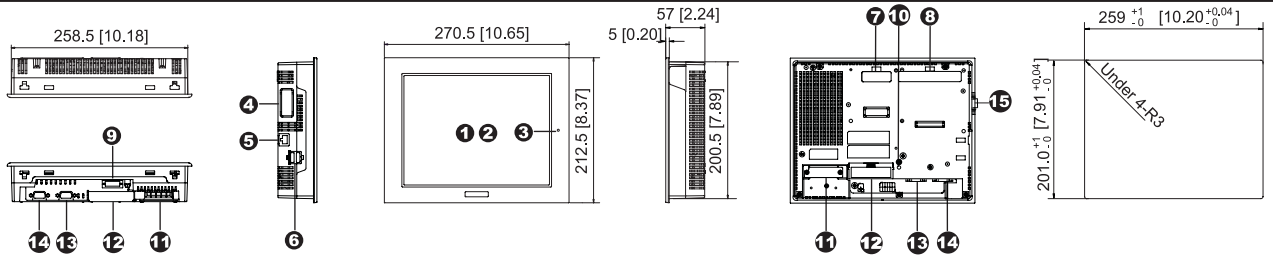
AGP3500-T1-AF-D81K
AGP3500-T1-AF-D81
AGP3500-T1-D24-D81K
AGP3500-T1-D24-D81C

AGP3500T D81K/D81C Integrated HMI Controller

10.4" Integrated Control Operator Interface with Built-In Discrete I/O

- All-in-One HMI and PLC with Built-in 6 discrete inputs and 2 discrete outputs
- 65,536 Colors, Clear, Bright, High-Resolution TFT Display
- 64-bit RISC 266Mhz CPU for Ultra Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Four Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 10/100 Base-T Ethernet, USB, Serial (MPI) and CompactFlash™ Communication Interfaces
- Audio Output, Alarm, Buzzer Remote Reset Interfaces
- Video Camera Support using Optional GP2000-VM41 Video Mix Module

PRODUCT OVERVIEW



AGP-3500T (AC Type) Unit Shown.

❶ Display

❷ Touch Panel

❸ Status LED

❹ Expansion Communication Feature Interface 1

❺ 10/100 Base-T Ethernet Interface (LAN) (RJ45)

❻ USB Interface (Host)
Conforms to USB1.1. (TYPE-A conn.) 2 ports for data transfer cable, USB-compatible printer, or barcode reader,etc. The maximum communication distance is 5m.

❼ Optional Communication Module Interface 2

❽ Optional Video Mix Module Interface
Support for optional GP2000-VM41 4-Channel video camera input and RGB remote monitor output.*1

❾ Auxiliary input/output /Audio Output Interface (AUX)
This interface is External Reset, Alarm Output, Buzzer Output, and sound output.

❿ CF Card Access LED
This lamp will light when CF card is inserted and CF card cover is closed, or while accessing the CF card when the cover is opened.

⓫ Power Input Terminal Block
Connect the power cable.

⓬ CF Card Cover
The CF Card I/F and Dip Switches are located behind the access door. This cover must be closed when reading and writing to the CF Card.

⓭ Serial Interface (COM1)
RS-232C/RS-422 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.

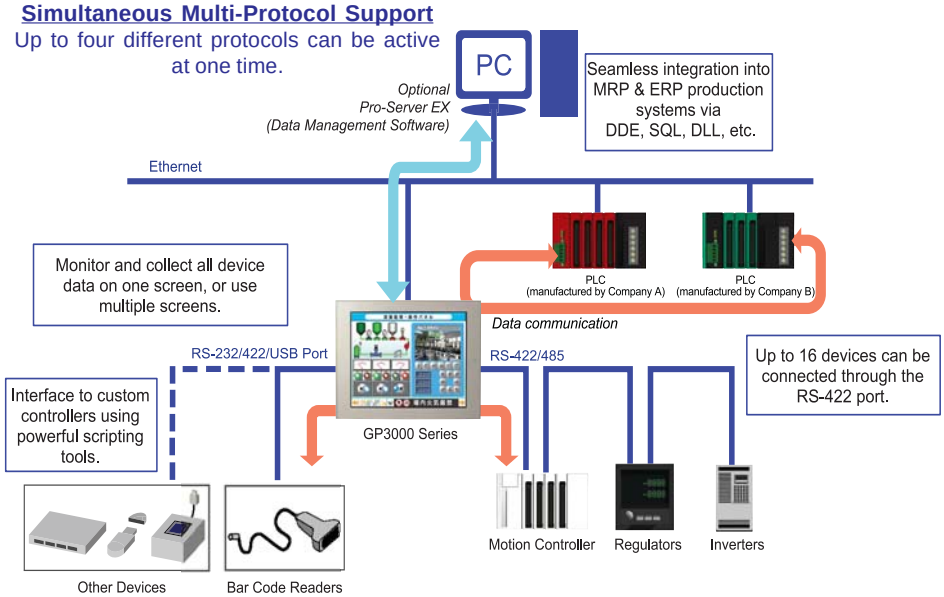
⓮ Serial Interface (COM2)
RS-422/RS-485 (MPI 187kbps) serial interface. D-sub 9-pin socket type connector.

⓯ Discrete I/O Interface
6 Discrete Inputs, 2 Discrete Outputs Built-in.

COMMUNICATION CAPABILITY

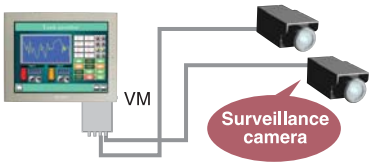
Simultaneous Multi-Protocol Support

Up to four different protocols can be active at one time.



Remote Video Monitoring

Add up to four additional cameras using optional GP2000-VM41 Video Mix Unit



Video images provide virtual on-site monitoring of line conditions.

Applications

- Inline Process Monitoring
- Machine Safety
- Security

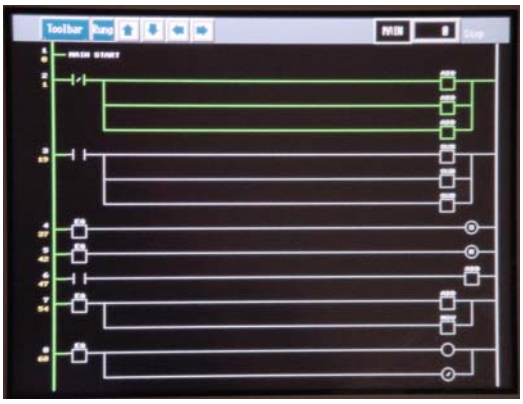
Pro-face XYCOM

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

AGP3500T D81K / D81C CONTINUED

INTEGRATED MONITOR CONTROL

ONLINE LOGIC PROGRAM MONITORING FEATURE

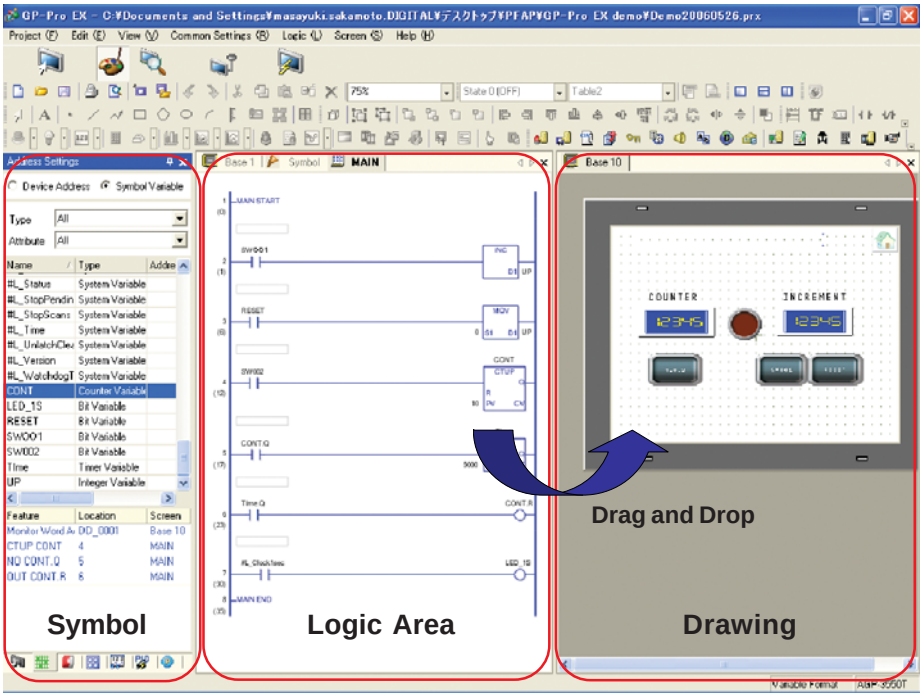


Detect Problems Faster

- View logic Programming on HMI while running. "No need for a laptop!"
- Verify current values of all variables live
- Quickly identify sequential logic faults
- Helps optimize Programming & Processes
- View logic in English or Japanese

POWERFUL LOGIC PROGRAMMING

With GP-Pro EX, you can develop logic programs as well as screen creation. You can also import existing logic programs created with the GP-PRO/PBIII C-Package.



Time Saving Steps

Drag and Drop

Drag contact or coil to quickly create a graphical switch or lamp.

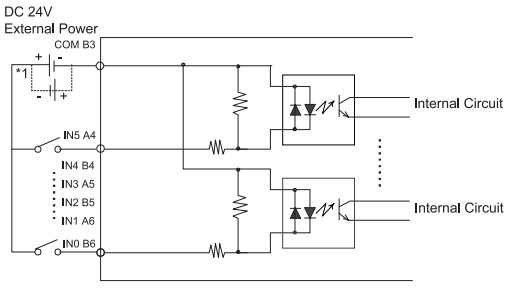
Re-usable sub-routines

Reduce steps for product programming development and maintenance using sub-routines.

Screen Editor GP-Pro EX

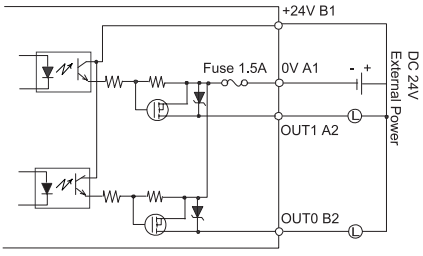
BUILT-IN DISCRETE I/O

6 Discrete Inputs, 2 Discrete Outputs Per Model

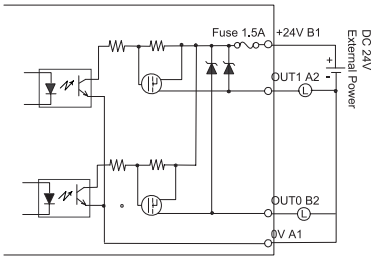


*1 Dotted line shows connection to sink output type.

Discrete Input Connection



Discrete Output Connection (Sink Configuration)



Discrete Output Connection (Source Configuration)

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AGP3500T D81K/D81C SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

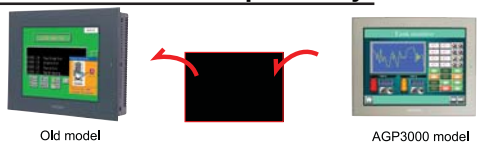
Model		AGP3500-T1-AF-D81K/D81C	AGP3500-T1-D24-D81K/D81C
Display	Type	TFT Color LCD	
	Colors	65536 colors (no blink) / 16384 colors (3-speed blink)	
	Backlight	User replaceable CCFL (Service life: 50,000 hrs. or more at 25°C (77°F)and 24 hrs. operation)	
	Resolution	640 x 480 pixels	
	Brightness Control	8 levels of adjustment available via touch panel	
	Touch Panel	Resistive film analog 1024 x 1024 resolution	
Memory	Application	8MB FEPROM	
	Data Backup	320KB SRAM	
Interfaces	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin D-sub plug, Data Transmission Speed: 2400 to 115.2 Kbps	
	Serial (COM 2) Interface	RS-422/485, 9 pin D-sub socket, Data Transmission Speed: 2400 to 115.2 kbps (MPI Direct 187.5 Kbps)	
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)	
	Expansion Unit Interface	Interface port for optional communication modules.	
	USB Interface	2 ports USB1.1, USB TYPE-A connector	
	CF Card Interface	1 slot CompactFlash™, TYPE II	
	Sound Output	Speaker ouput 70mW (Rated Load: 8ohm, Frequency: 1kHz)	
	Video Mix Interface	Support for optional GP2000-VM41 4-Channel Video camera input and RGB remote monitor with output.	
	Discrete 6 In 2 Out Interface	Connect to an I/O device. 6 Input pts 24VDC, Rated:5.7 mA. 2 Outputs 24V DC, Rated:24VDC @ 200mA/pt.	
	AUX Input/Output	AUX Discrete Output: Alarm Output, RUN Output, Buzzer Output, Rated: DC24V @ 50mA AUX Discrete Input: Remote Reset Input, Rated: DC24V @ 6mA Operating Voltage: ON State: DC9V or greater, OFF State: DC2.5V or less	

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	100V AC to 240V AC	24V DC
	Rated Voltage Range	85V AC to 265V AC	19.2V DC to 28.8V DC
	Power Consumption	100V AC 0.9A or less, 240V AC 0.45A or less	50W or less
Environmental	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)	
	Storage Temperature	-20°C (-4°F) to 60°C (140°F)	
	Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)	
	Altitude Operation	800hPa to 1114hPA (2000 meters or lower)	
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s^2, X,Y, Z directions for 10 times (100min.)	
Structural	Ratings	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Coolant Spraying and Splashing")	
	Certifications	CE, UL, cUL recognized (Cl 1 Div 2)	CE, UL Listed Cl 1 Div 2
	External Dimensions	W270.5mm[10.65in.] x H212.5mm [8.37in.] x D57mm [2.24in.]	
	Weight	2.5kg (5.5lb) or less	

CUTOUT COMPATIBILITY

16 Years of Cut-Out Compatibility



Old model — AGP3000 model "Drops in"

Panel cutout dimensions

Size / Series name	301.5x227.5 mm	259x201 mm
GP77R Series	GP577R Series	GP-477R EL
GP2000 Series	GP2600/01 GP2500/01 Series	—
GP3000 Series	GP-3600 GP-3500 Series (STN or Mono)	GP-3500* Series(TFT)

*Note: Drop-in replacement for GP477R EL Model.
To mount in a GP2500 cut-out, an adapter plate is required.

Investment Protection

SOFTWARE COMPATIBILITY

POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software

(V.1.10 or higher)

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3500-T1-AF-D81K	10.4" TFT, 2 Serial, 2 USB, Ethernet, 6 In 2 Out (Sink), 100-240AC
AGP3500-T1-AF-D81C	10.4" TFT, 2 Serial, 2 USB, Ethernet, 6 In 2 Out (Source), 100-240AC
AGP3500-T1-D24-D81K	10.4" TFT, 2 Serial, 2 USB, Ethernet, 6 In 2 Out (Sink), 24VDC
AGP3500-T1-D24-D81C	10.4" TFT, 2 Serial, 2 USB, Ethernet, 6 In 2 Out (Source), 100-240AC
OPTIONAL ACCESSORIES	
HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
CA5-DFS10-01	Overlay Screen Protection Sheets (5 sheets/pack)
CA4-ATM10-01	Panel Adapter Plate for mounting AGP3500T in a GP2500 Cut-out
PLC Cables & Accessories	*See AGP3000 Connectivity Document*

Xycom Automation
Ph: 734-429-4971
Fax: 734-429-1010
http://www.xycom.com

Customer Support Hotline:
734-944-0482

Pro-face XYCOM

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AGP3500-T1-AF-FN1M

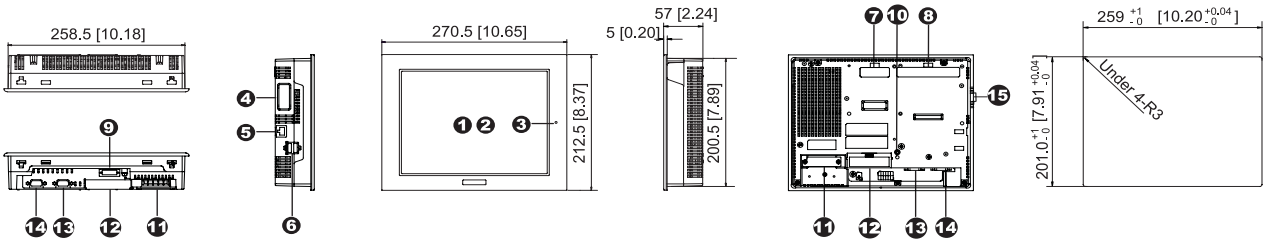
AGP3500-T1-D24-FN1M

AGP3500T FN1M Integrated HMI Controller

10.4" Integrated Control Operator Interface with Dual Channel Flex Network Port

- 65,536 Colors, Clear, Bright, High-Resolution TFT Display
- 64-bit RISC 266Mhz CPU for Ultra Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Four Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 10/100 Base-T Ethernet, USB, Serial (MPI) and CompactFlash™ Communication Interfaces
- Audio Output, Alarm, Buzzer Remote Reset Interfaces
- Video Camera Support using Optional GP2000-VM41 Video Mix Module

PRODUCT OVERVIEW



AGP-3500T (AC Type) Unit Shown.

❶ Display

❷ Touch Panel

❸ Status LED

❹ Expansion Communication Feature Interface 1

❺ 10/100 Base-T Ethernet Interface (LAN) (RJ45)

❻ USB Interface (Host)
Conforms to USB1.1. (TYPE-A conn.) 2 ports for data transfer cable, USB-compatible printer, or barcode reader,etc. The maximum communication distance is 5m.

❼ Optional Communication Module Interface 2

❽ Optional Video Mix Module Interface
Support for optional GP2000-VM41 4-Channel video camera input and RGB remote monitor output.*1

❾ Auxiliary input/output /Audio Output Interface (AUX)
This interface is External Reset, Alarm Output, Buzzer Output, and sound output.

❿ CF Card Access LED
This lamp will light when CF card is inserted and CF card cover is closed, or while accessing the CF card when the cover is opened.

⓫ Power Input Terminal Block
Connect the power cable.

⓬ CF Card Cover
The CF Card I/F and Dip Switches are located behind the access door. This cover must be closed when reading and writing to the CF Card.

⓭ Serial Interface (COM1)
RS-232C/RS-422 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.

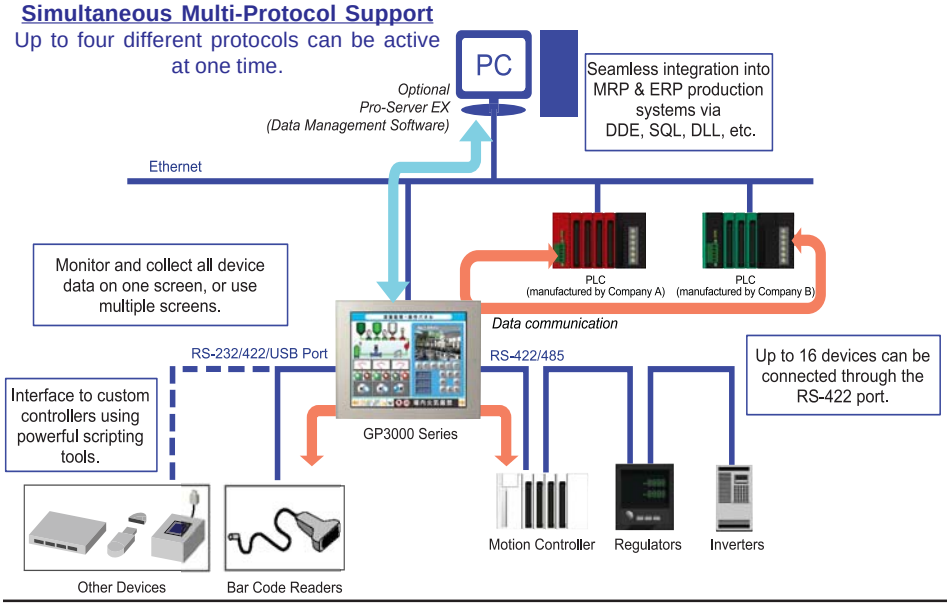
⓮ Serial Interface (COM2)
RS-422/RS-485 (MPI 187kbps) serial interface. D-sub 9-pin socket type connector.

⓯ FLEX NETWORK Interface
2 ch. Flex Network interface for use with FN-xxx distributed I/O modules.

COMMUNICATION CAPABILITY

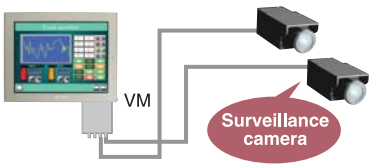
Simultaneous Multi-Protocol Support

Up to four different protocols can be active at one time.



Remote Video Monitoring

Add up to four additional cameras using optional GP2000-VM41 Video Mix Unit



Video images provide virtual on-site monitoring of line conditions.

Applications

- Inline Process Monitoring
- Machine Safety
- Security

Pro-face XYCOM

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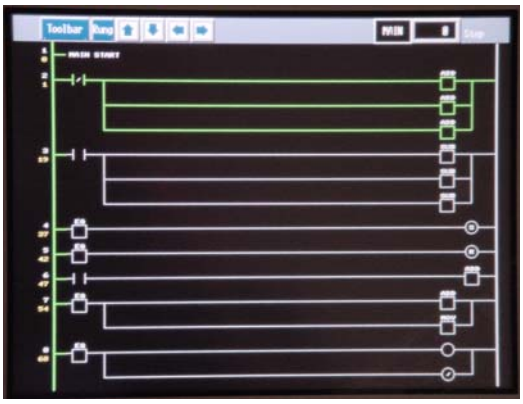
AGP3500T FN1M CONTINUED

INTEGRATED MONITOR CONTROL

ONLINE LOGIC PROGRAM MONITORING FEATURE



Detect Problems Faster

- View logic Programming on HMI while running. "No need for a laptop!"
- Verify current values of all variables live
- Quickly identify sequential logic faults
- Helps optimize Programming & Processes
- View logic in English or Japanese

POWERFUL LOGIC PROGRAMMING

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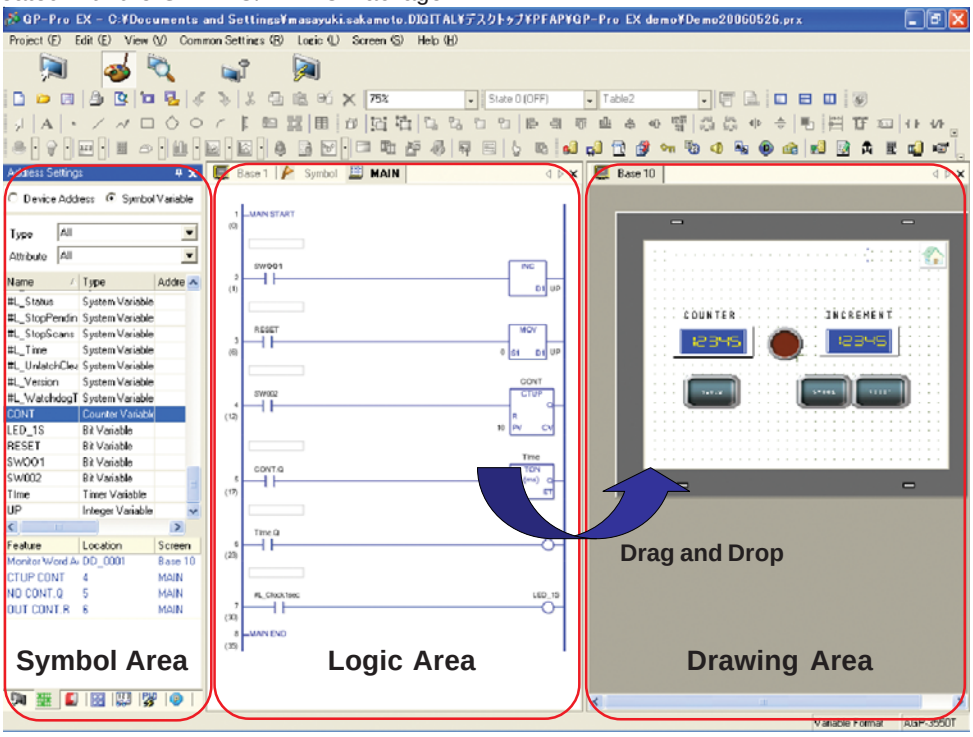


Time Saving Steps

Drag and Drop

Drag contact or coil to quickly create a graphical switch or lamp.

Re-usable sub-routines

Reduce steps for product programming development and maintenance using sub-routines.

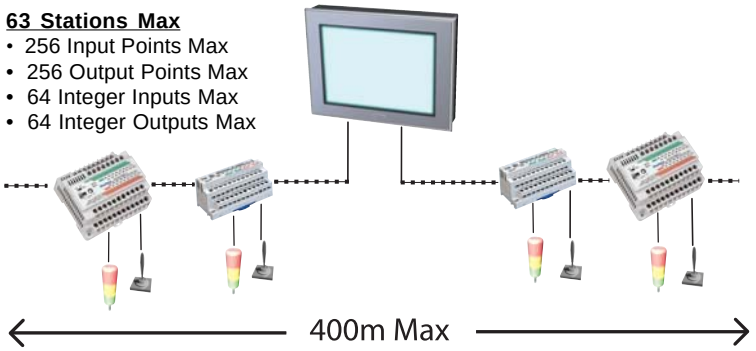
Screen Editor GP-Pro EX

DISTRIBUTED I/O MODULES

Features include: timers, counters, logical operations, mathmatical, bit operation, etc. Mix and match any combination of analog and digital I/O modules.

63 Stations Max

- 256 Input Points Max
- 256 Output Points Max
- 64 Integer Inputs Max
- 64 Integer Outputs Max



FLEX NETWORK MODULES

Monitor & Control

- For distributed I/O applications.
- Supports the Flex Network Analog and Discrete I/O Modules.

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AGP3500T FN1M SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

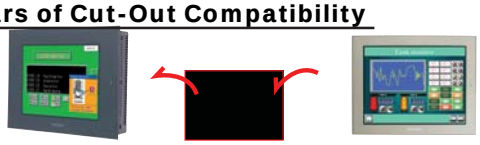
Model		AGP3500-T1-AF-FN1M	AGP3500-T1-D24-FN1M
Display	Type	TFT Color LCD	
	Colors	65536 colors (no blink) / 16384 colors (3-speed blink)	
	Backlight	User replaceable CCFL (Service life: 50,000 hrs. or more at 25°C (77°F)and 24 hrs. operation)	
	Resolution	640 x 480 pixels	
	Brightness Control	8 levels of adjustment available via touch panel	
	Touch Panel	Resistive film analog 1024 x 1024 resolution	
Memory	Application	8MB FEPROM	
	Data Backup	320KB SRAM	
Interfaces	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin D-sub plug, Data Transmission Speed: 2400 to 115.2 kbps	
	Serial (COM 2) Interface	RS-422/485, 9 pin D-sub socket, Data Transmission Speed: 2400 to 115.2 kbps (MPI Direct 187.5 kbps)	
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)	
	Expansion Unit Interface	Interface port for future field networking solutions	
	USB Interface	2 ports USB1.1, USB TYPE-A connector	
	CF Card Interface	1 slot CompactFlash™, TYPE II	
	Sound Output	Speaker ouput 70mW (Rated Load: 8ohm, Frequency: 1kHz)	
	Video Mix Interface	Support for optional GP2000-VM41 4-Channel Video camera input and RGB remote monitor with output.	
	Flex Network Interface	Connect to Flex Network distributed I/O modules: 2 channel, 200m per channel. Speed: 6Mbs, 12Mbs. Bit variable Input/Output: 512pts max. Integer Variable Input/Output: 128 pts max.	
	AUX Input/Output	AUX Discrete Output: Alarm Output, RUN Output, Buzzer Output, Rated: DC24V @ 50mA AUX Discrete Input: Remote Reset Input, Rated: DC24V @ 6mA Operating Voltage: ON State: DC9V or greater, OFF State: DC2.5V or less	

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	100V AC to 240V AC	24V DC
	Rated Voltage Range	85V AC to 265V AC	19.2V DC to 28.8V DC
	Power Consumption	100V AC 0.9A or less, 240V AC 0.45A or less	50W or less
Environmental	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)	
	Storage Temperature	-20°C (-4°F) to 60°C (140°F)	
	Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)	
	Altitude Operation	800hPa to 1114hPA (2000 meters or lower)	
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s^2, X,Y, Z directions for 10 times (100min.)	
Structural	Ratings	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Coolant Spraying and Splashing")	
	Certifications	CE, UL, cUL recognized (Cl 1 Div 2)	CE, UL Listed Cl 1 Div 2
	External Dimensions	W270.5mm[10.65in.] x H212.5mm [8.37in.] x D57mm [2.24in.]	
	Weight	2.5kg (5.5lb) or less	

CUTOUT COMPATIBILITY

16 Years of Cut-Out Compatibility



Old model — AGP3000 model "Drops in"

Panel cutout dimensions

Size / Series name	301.5x227.5 mm	259x201 mm
GP77R Series	GP577R Series	GP-477R EL
GP2000 Series	GP2600/01 GP2500/01 Series	—
GP3000 Series	GP-3600 GP-3500 Series (STN or Mono)	GP-3500* Series(TFT)

*Note: Drop-in replacement for GP477R EL Model.
To mount in a GP2500 cut-out, an adapter plate is required.

Investment Protection

SOFTWARE COMPATIBILITY

POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3500-T1-AF-FN1M	10.4" TFT, 2 Serial, 2 USB, Ethernet, Flex Network, 100-240AC
AGP3500-T1-D24-FN1M	10.4" TFT, 2 Serial, 2 USB, Ethernet, Flex Network, 24VDC
OPTIONAL ACCESSORIES	
HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
CA5-DFS10-01	Overlay Screen Protection Sheets (5 sheets/pack)
CA4-ATM10-01	Panel Adapter Plate for mounting AGP3500T in a GP2500 Cut-out
PLC Cables & Accessories	*See AGP3000 Connectivity Document*

Xycom Automation
Ph: 734-429-4971
Fax: 734-429-1010
http://www.xycom.com

Customer Support Hotline:
734-944-0482

Pro-face XYCOM

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PRO-FACE OPERATOR INTERFACES

product datasheet

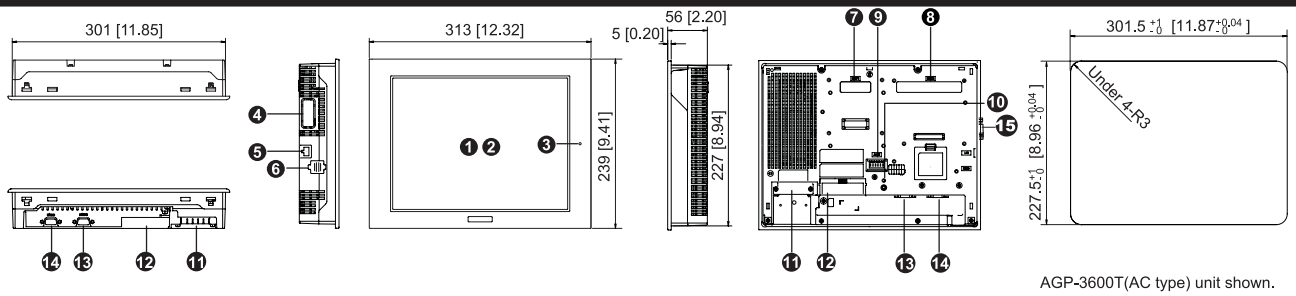
AGP3600-T1-AF-D81K
AGP3600-T1-AF-D81C
AGP3600-T1-D24-D81K
AGP3600-T1-D24-D81C

AGP3600T D81K/D81C Integrated HMI Controller

12.1" Integrated Control Operator Interface with Built-In Discrete I/O

- All-in-One HMI and PLC with Built-in 6 discrete inputs and 2 discrete outputs
- 65,536 Color, Clear, Bright, High-Resolution TFT Display
- 64-bit RISC 266Mhz CPU for Ultra Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Four Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 100 Base-T Ethernet, USB, Serial (MPI) and CompactFlash™ Communication Interfaces
- Video Camera Support using Optional GP2000-VM41 Video Mix Module

PRODUCT OVERVIEW



AGP-3600T(AC type) unit shown.

❶ Display

❷ Touch Panel

❸ Status LED

❹ Expansion Communication Feature Interface 1

❺ 10/100 Base-T Ethernet Feature (LAN) (RJ45)

❻ USB Interface (Host)
Conforms to USB1.1. (TYPE-A conn.) 2 ports for data transfer cable, USB-compatible printer, or barcode reader,etc. The maximum communication distance is 5m.

❼ Optional Communication Module Interface 2

❽ Optional Video Mix Module Interface
Support for optional GP2000-VM41 4-Channel video camera input and RGB remote monitor output.

❾ Auxiliary input/output /Audio Output Interface (AUX)
This interface is External Reset, Alarm Output, Buzzer Output, and sound output.

❿ CompactFlash Card Access LED
This lamp will light when CF card is inserted and CF card cover is closed, or while accessing the CF card when the cover is opened.

⓫ Power Input Terminal Block
Connect the power cable.

⓬ CompactFlash Access Cover
The CF Card I/F and Dip Switches are located behind the access door. This cover must be closed when reading and writing to the CF Card.

⓭ Serial Interface (COM1)
RS-232C/RS-422 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.

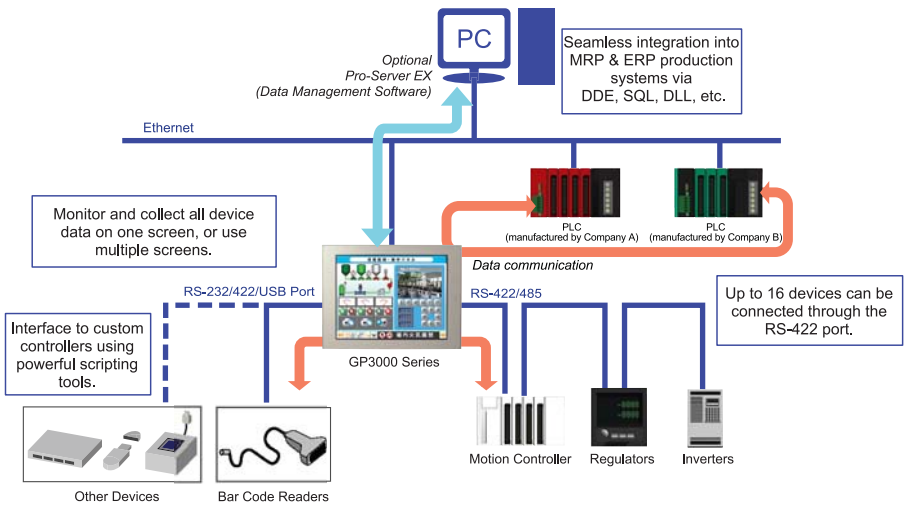
⓮ Serial Interface (COM2)
RS-422/RS-485 (MPI 187kbps) serial interface. D-sub 9-pin socket type connector.

⓯ Discrete I/O Interface
6 Discrete Inputs, 2 Discrete Outputs Built-in.

COMMUNICATION CAPABILITY

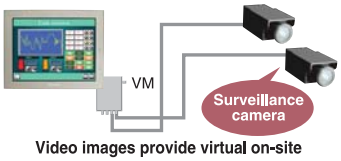
Simultaneous Multi-Protocol Support

Up to four different protocols can be active at one time.



Remote Video Monitoring

Add up to four additional cameras using optional GP2000-VM41 Video Mix Unit



Video images provide virtual on-site monitoring of line conditions.

Applications

- Inline Process Monitoring
- Machine Safety
- Security

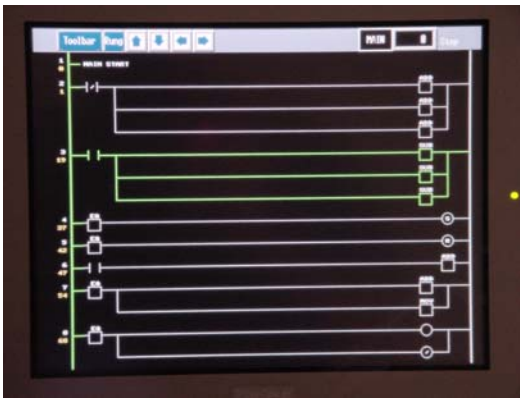
Pro-face® XYCOM™

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

AGP3600T D81K/D81C CONTINUED

INTEGRATED MONITOR CONTROL

ONLINE LOGIC PROGRAM MONITORING FEATURE

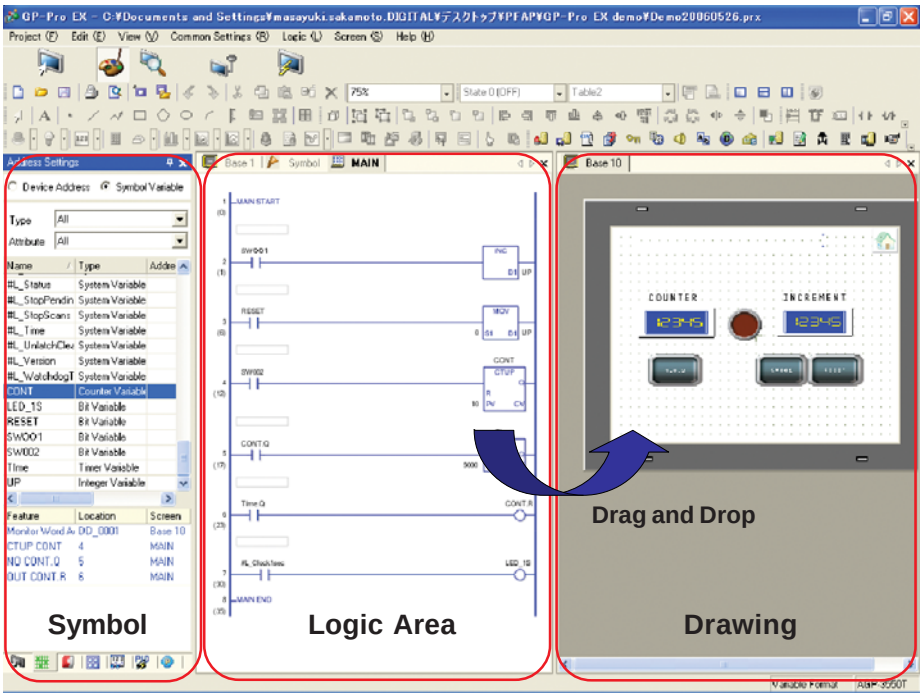


Detect Problems Faster

- View logic Programming on HMI while running. "No need for a laptop!"
- Verify current values of all variables live
- Quickly identify sequential logic faults
- Helps optimize Programming & Processes
- View logic in English or Japanese

POWERFUL LOGIC PROGRAMMING

With GP-Pro EX, you can develop logic programs as well as screen creation. You can also import existing logic programs created with the GP-PRO/PBIII C-Package.



Time Saving Steps

Drag and Drop

Drag contact or coil to quickly create a graphical switch or lamp.

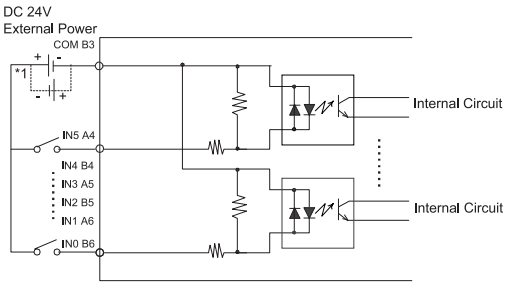
Re-usable sub-routines

Reduce steps for product programming development and maintenance using sub-routines.

Screen Editor GP-Pro EX

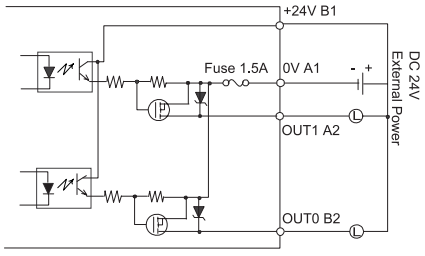
BUILT-IN DISCRETE I/O

6 Discrete Inputs, 2 Discrete Outputs Per Model

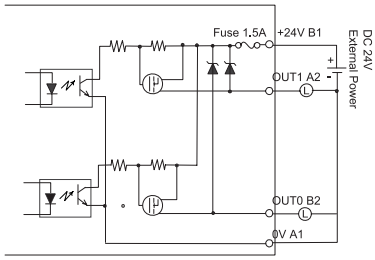


*1 Dotted line shows connection to sink output type.

Discrete Input Connection



Discrete Output Connection (Sink Configuration)



Discrete Output Connection (Source Configuration)

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AGP3600T D81K/D81C SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

Model		AGP3600-T1-AF-D81K/D81C	AGP3600-T1-D24-D81K/D81C
Display	Type	TFT Color LCD	
	Colors	65536 colors (no blink) / 16384 colors (3-speed blink)	
	Backlight	User replaceable CCFL (Service life: 50,000 hrs. or more at 25°C (77°F) and 24 hrs. operation)	
	Resolution	800 x 600 pixels	
	Brightness Control	8 levels of adjustment available via touch panel	
	Touch Panel	Resistive film analog 1024 x 1024 resolution	
Memory	Application	8MB FEPROM	
	Data Backup	320KB SRAM	
Interfaces	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin D-sub plug, Data Transmission Speed: 2400 to 115.2 Kbps	
	Serial (COM 2) Interface	RS-422/485, 9 pin D-sub socket, Data Transmission Speed: 2400 to 115.2 Kbps (MPI Direct 187 Kbps)	
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)	
	Communication Module Interface	Interface port for optional communication modules.	
	USB Interface	2 ports USB1.1, Host I/F, USB TYPE-A connector	
	CF Card Interface	1 slot CompactFlash™, TYPE II	
	Sound Output	Speaker ouput 70mW (Rated Load: 8ohm, Frequency: 1kHz)	
	Video Mix Interface	Support for optional GP2000-VM41 4-Channel Video camera input and RGB remote monitor with output.	
	Discrete 6 In 2 Out Interface	Connect to an I/O device. 6 Input pts. 24VDC, Rated:5.7 mA. 2 Outputs 24V DC, Rated:24VDC @ 200mA/pt.	
	AUX Input/Output	AUX Discrete Output: Alarm Output, RUN Output, Buzzer Output, Rated: DC24V @ 50mA AUX Discrete Input: Remote Reset Input, Rated: DC24V @ 6mA Operating Voltage: ON State: DC9V or greater, OFF State: DC2.5V or less	

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	100V AC to 240V AC	24V DC
	Rated Voltage Range	85V AC to 265V AC	19.2V DC to 28.8V DC
	Power Consumption	100V AC 0.9A or less, 240V AC 0.45A or less	50W or less
	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)	
Environmental	Storage Temperature	-20°C (-4°F) to 60°C (140°F)	
	Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)	
	Altitude Operation	800hPa to 1114hPA (2000 meters or lower)	
	Vibration & Shock Resistance	IEC61131-2 compliant. 5Hz to 9Hz single amplitude 3.5mm, 9Hz to 150Hz fixed acceleration 9.8m/s^2, X,Y, Z directions for 10 times (100min.)	
Structural	Ratings	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Coolant Spraying and Splashing")	
	Certifications	CE, UL, cUL Recognized	CE, CSA, UL ListedCl 1 Div 2
	External Dimensions	W313mm[12.31in.] x H239mm [9.41in.] x D56mm [2.20in.]	
	Weight	3.0kg (6.6lb) or less	

CUTOUT COMPATIBILITY

16 Years of Cut-Out Compatibility

Old model

Panel cutout dimensions

AGP3000 model

Investment Protection

Size / Series name	301.5x227.5 mm
GP77R Series	GP577R Series
GP2000 Series	GP2600/01 GP2500/01 Series
GP3000 Series	GP-3600 GP-3500 Series (STN or Mono)

Drop-in replacement for: GP2600, GP2500, and GP577R units.

SOFTWARE COMPATIBILITY

POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software (V.1.10 or higher)

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3600-T1-AF-D81K	12.1" TFT, USB, Ethernet, Serial HMI, Discrete 6 in 2 Out (Sink), 100-240 AC
AGP3600-T1-AF-D81C	12.1" TFT, USB, Ethernet, Serial HMI, Discrete 6 in 2 Out (Source), 100-240 AC
AGP3600-T1-D24-D81K	12.1" TFT, USB, Ethernet, Serial HMI, Discrete 6 in 2 Out (Sink), 24VDC
AGP3600-T1-D24-D81C	12.1" TFT, USB, Ethernet, Serial HMI, Discrete 6 in 2 Out (Source), 24VDC
OPTIONAL ACCESSORIES	
HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
CA3-DFS12-01	Overlay Screen Protection Sheets (5 sheets/pack)
GP2000-VM41	Four-Channel Video Mix Unit (Verify support in your version of GP-Pro EX)
PLC Cables	*See AGP3000 Connectivity Document*

Xycom Automation
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Fax: 734-429-1010
http://www.xycom.com

Customer Support Hotline:
734-944-0482

Pro-face XYCOM

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AGP3600-T1-AF-FN1M

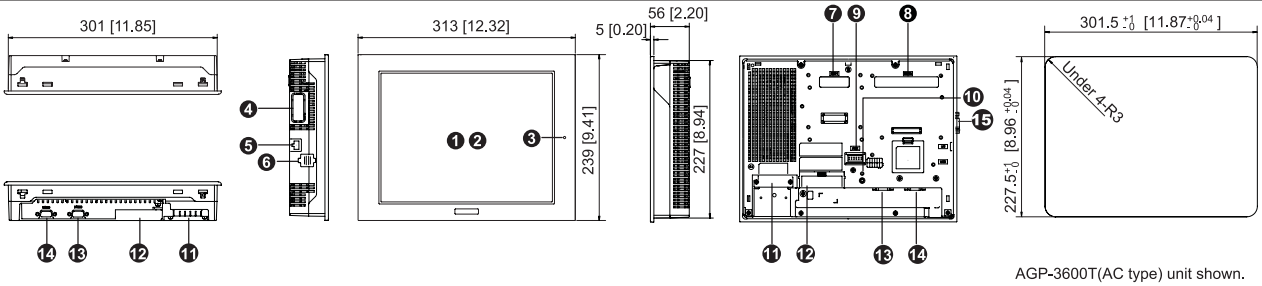
AGP3600-T1-D24-FN1M

AGP3600T FN1M Integrated HMI Controller

12.1" Integrated Control Operator Interface with Dual Channel Flex Network Port

- Expand and control distributed I/O modules via Flex Network Interface
- 65,536 Color, Clear, Bright, High-Resolution LCD Display
- 64-bit RISC 266Mhz CPU for Ultra Fast Screen Refresh and Data Sampling
- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Four Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 100 Base-T Ethernet, USB, Serial (MPI) and CompactFlash™ Communication Interfaces

PRODUCT OVERVIEW



AGP-3600T(AC type) unit shown.

❶ **Display**

❷ **Touch Panel**

❸ **Status LED**

❹ **Expansion Communication Feature Interface 1**

❺ **10/100 Base-T Ethernet Feature (LAN)** (RJ45)

❻ **USB Interface (Host)**
Conforms to USB1.1. (TYPE-A conn.) 2 ports for data transfer cable, USB-compatible printer, or barcode reader,etc. The maximum communication distance is 5m.

❼ **Optional Communication Module Interface 2**

❽ **Optional Video Mix Module Interface**
Support for optional GP2000-VM41 4-Channel video camera input and RGB remote monitor output.

❾ **Auxiliary input/output /Audio Output Interface (AUX)**
This interface is External Reset, Alarm Output, Buzzer Output, and sound output.

❿ **CompactFlash Card Access LED**
This lamp will light when CF card is inserted and CF card cover is closed, or while accessing the CF card when the cover is opened.

⓫ **Power Input Terminal Block**
Connect the power cable.

⓬ **CompactFlash Access Cover**
The CF Card I/F and Dip Switches are located behind the access door. This cover must be closed when reading and writing to the CF Card.

⓭ **Serial Interface (COM1)**
RS-232C/RS-422 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.

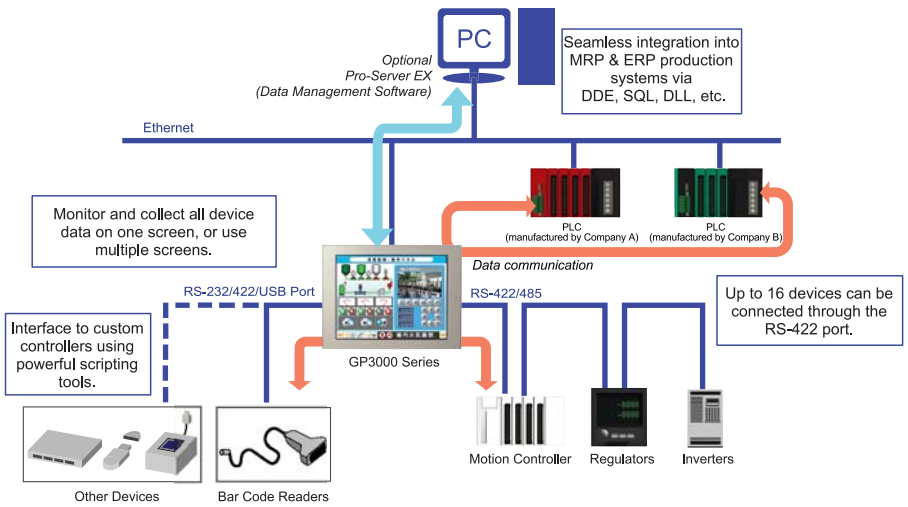
⓮ **Serial Interface (COM2)**
RS-422/RS-485 (MPI 187kbps) serial interface. D-sub 9-pin socket type connector.

⓯ **FLEX NETWORK Interface**
2 ch. Flex Network interface for use with FN-xxx distributed I/O modules.

COMMUNICATION CAPABILITY

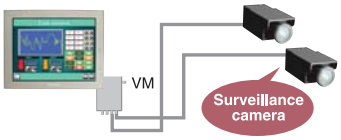
Simultaneous Multi-Protocol Support

Up to four different protocols can be active at one time.



Remote Video Monitoring

Add up to four additional cameras using optional GP2000-VM41 Video Mix Unit



Video images provide virtual on-site monitoring of line conditions.

Applications

- Inline Process Monitoring
- Machine Safety
- Security

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AGP3600T FN1M CONTINUED

INTEGRATED MONITOR CONTROL

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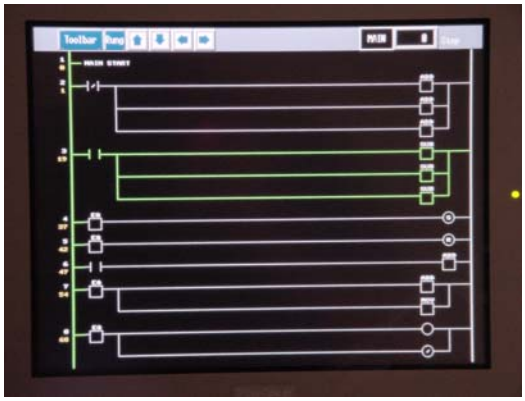

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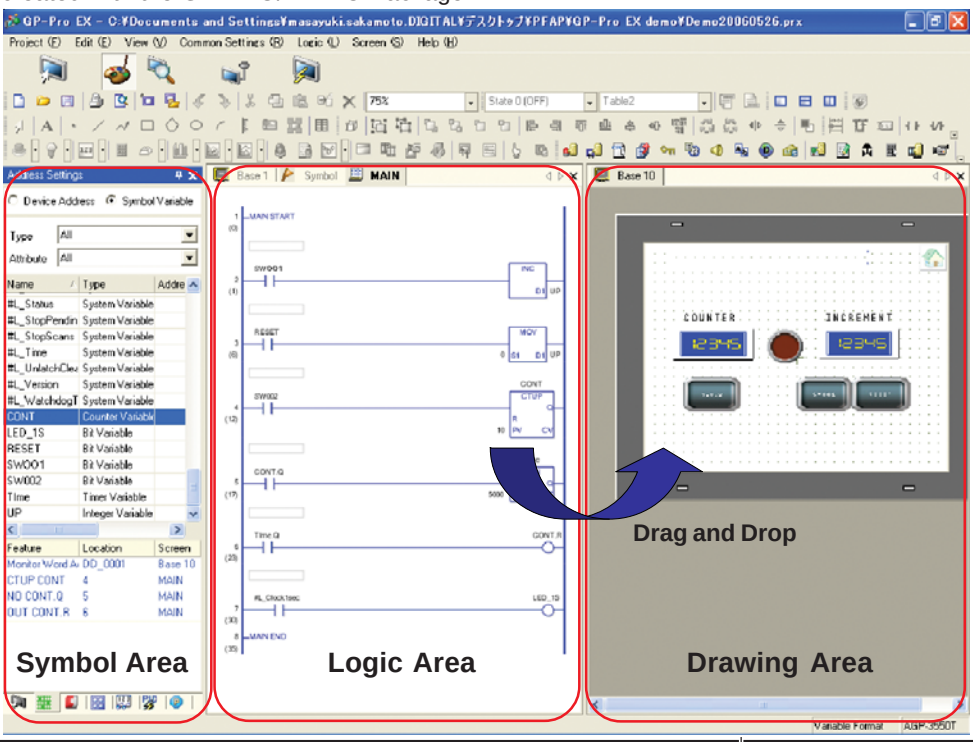


Time Saving Steps

Drag and Drop

Drag contact or coil to quickly create a graphical switch or lamp.

Re-usable sub-routines

Reduce steps for product programming development and maintenance using sub-routines.

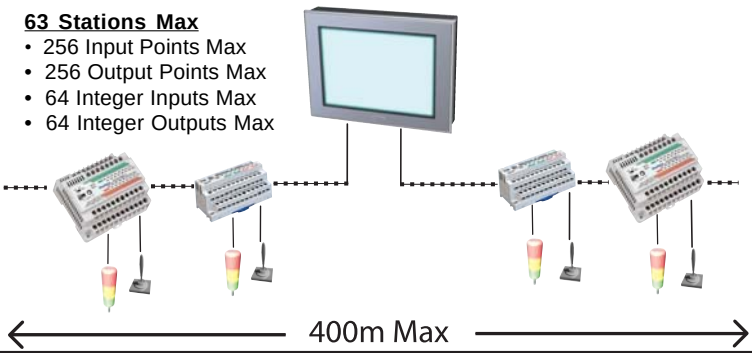
Screen Editor GP-Pro EX

DISTRIBUTED I/O MODULES

Features include: timers, counters, logical operations, mathmatical, bit operation, etc. Mix and match any combination of analog and digital I/O modules.

63 Stations Max

- 256 Input Points Max
- 256 Output Points Max
- 64 Integer Inputs Max
- 64 Integer Outputs Max



FLEX NETWORK MODULES

Monitor & Control

- For distributed I/O applications.
- Supports the Flex Network Analog and Discrete I/O Modules.

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AGP3600T FN1M SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

Model		AGP3600-T1-AF-FN1M	AGP3600-T1-D24-FN1M
Display	Type	TFT Color LCD	
	Colors	65536 colors (no blink) / 16384 colors (3-speed blink)	
	Backlight	User replaceable CCFL (Service life: 50,000 hrs. or more at 25°C (77°F) and 24 hrs. operation)	
	Resolution	800 x 600 pixels	
	Brightness Control	8 levels of adjustment available via touch panel	
	Touch Panel	Resistive film analog 1024 x 1024 resolution	
Memory	Application	8MB FEPROM	
	Data Backup	320KB SRAM	
Interfaces	Serial (COM 1) Interface	RS-232C/422/485 configurable, 9 pin D-sub plug, Data Transmission Speed: 2400 to 115.2 kbps	
	Serial (COM 2) Interface	RS-422/485, 9 pin D-sub socket, Data Transmission Speed: 2400 to 115.2 kbps	
	Ethernet Interface	Ethernet IEEE802.3, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)	
	Communication Module Interface	Interface port for future field networking solutions	
	USB Interface	2 ports USB1.1, Host I/F, USB TYPE-A connector	
	CF Card Interface	1 slot CompactFlash™, TYPE II	
	Sound Output	Speaker ouput 70mW (Rated Load: 8ohm, Frequency: 1kHz)	
	Video Mix Interface	Support for optional GP2000-VM41 4-Channel Video camera input and RGB remote monitor with output.(Verify that your version of GP-Pro EX supports this feature.)	
	Flex Network Interface	Connect to Flex Network distributed I/O modules: 2 channel, 200m per channel. Speed: 6Mbs, 12Mbs. Bit variable Input/Output: 512pts max. Integer Variable Input/Output: 128 pts max.	
	AUX Input/Output	AUX Discrete Output: Alarm Output, RUN Output, Buzzer Output, Rated: DC24V @ 50mA AUX Discrete Input: Remote Reset Input, Rated: DC24V @ 6mA Operating Voltage: ON State: DC9V or greater, OFF State: DC2.5V or less	

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	100V AC to 240V AC	24V DC
	Rated Voltage Range	85V AC to 265V AC	19.2V DC to 28.8V DC
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	Weight	3.0kg (6.6lb) or less	

CUTOUT COMPATIBILITY

16 Years of Cut-Out Compatibility

Old model

Panel cutout dimensions

AGP3000 model

Investment Protection

Size / Series name	301.5x227.5 mm
GP77R Series	GP577R Series
GP2000 Series	GP2600/01 GP2500/01 Series
GP3000 Series	GP-3600 GP-3500 Series (STN or Mono)

Drop-in replacement for: GP2600, GP2500, and GP577R units.

SOFTWARE COMPATIBILITY

POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software (V.1.10 or higher)

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
AGP3600-T1-AF-FN1M	12.1" TFT, USB, Ethernet, Serial HMI, Flex Network, 100-240AC
AGP3600-T1-D24-FN1M	12.1" TFT, USB, Ethernet, Serial HMI, Flex Network, 24VDC
OPTIONAL ACCESSORIES	
HMI-CAB-ETH	Ethernet Crossover Cable: HMI to PLC Ethernet port or to program HMI
CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
CA3-DFS12-01	Overlay Screen Protection Sheets (5 sheets/pack)
GP2000-VM41	Four-Channel Video Mix Unit (Verify support in your version of GP-Pro EX)
PLC Cables	*See AGP3000 Connectivity Document*

Xycom Automation
Ph: 734-429-4971
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http://www.xycom.com

Customer Support Hotline:
734-944-0482

Pro-face XYCOM

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Corporate Overview
AGP3000 Series Operator Interface
GP-Pro EX HMI Software
Pro-Server EX Data Management Software
AGP3000 Hardware Specifications
HMI Connectivity and Accessories

Pro-face®

AGP3000 Series:

Advanced Operator Interfaces for the Competitive Edge

xycom.com

CELEBRATING 35 Years of Industrial Automation Solutions

Pro-face® XYCOM™

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The Best in Human Machine Interfaces

Pro-face® XYCOM™

Globally recognized, globally supported, globally trusted.

- We are the leading independent global supplier of industrial computing and visualization solutions for automation and manufacturing applications.
- We continue to set the standards for HMI solutions by offering the industry's most extensive product offerings and the highest levels of connectivity and support.

Pro-face HMI Operator Interfaces

Programmable graphic HMIs

- 3.8" to 15" crisp, clear HMI displays
- TFT, STN color or mono touch screens
- Data sharing & collection through OPC, DDE, SQL, etc.
- Web-enabled & remote monitoring capabilities
- Large selection of controller connectivity
- Ethernet, USB, RS232, RS422/485 and CompactFlash™ interfaces
- Full-featured HMI screen editor software

HMI logic controllers

- 5.7" to 12.1" dedicated touch-screen logic controllers
- Supports local or distributed I/O applications
- Low-cost standalone or networked units
- TFT color and mono graphics displays
- Large selection of protocol connectivity
- Data sharing & collection through CompactFlash, OPC, DDE, SQL, etc.

Xycom HMI Industrial Computers & Monitors

Industrial computers

- 8.4" up to 15" TFT displays
- Up to 1024 x 768 XGA resolution
- Intel® Pentium III and 4 CPUs
- Up to 2.4 GHz processor speed
- UL, cUL HazLoc approvals
- NEMA 4/4X/12 front panel ratings
- Touch screens and/or keypads
- Extensive I/O connectivity
- 20 years of cutout compatibility

Flat-panel monitors

- 10" up to 19" TFT displays
- Up to 1280 x 1024 SXGA resolution
- NEMA 4/4X/12 front panel ratings
- UL, cUL HazLoc approvals
- Touch screens and/or keypads
- Adapters for cutout compatibility

World-class HMI products, service, support and reliability.

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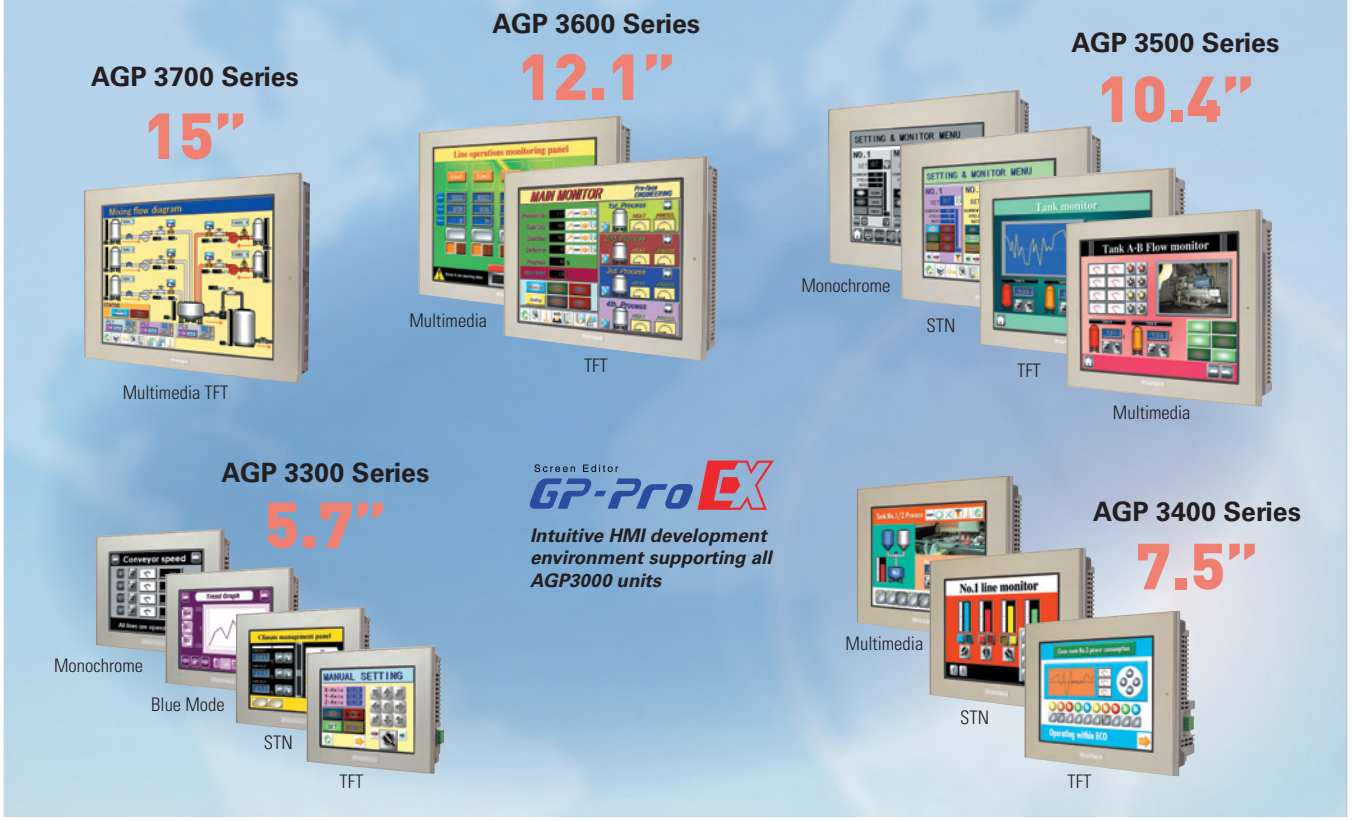
AGP3000 Series

AGP3000 Series models configured with ONE software package...

Screen Editor GP-Pro EX

Advanced operator interfaces for the competitive edge



An extensive line of HMI operator interfaces with the features you need, designed to lower your costs and improve your manufacturing processes

✔ Lowers your HMI development cost

- Easy-to-learn, self-guiding HMI development environment requires less time to master
- Extensive, built-in, time-saving features help you develop fast, consistent, standardized graphical interfaces

✔ Increases your productivity & product quality

- Monitor, collect, analyze and report up-to-the-minute production data using Pro-Server EX data management software
- AGP3000's extensive connectivity allows you to choose best-in-class complementary products, such as PLCs, drives and controllers, to match your application needs – without worrying about compatibility

✔ Supports a more responsive and efficient work force

- Use multimedia features to create detailed audio and visual standardization maintenance guides
- Gain instant access to machine training videos at each operator workstation

✔ Reduces machine downtime

- Use Event Recorder to capture machine faults
- Link video playback to alarm conditions
- Play instructional videos to help you quickly isolate and correct the problem
- Reduce your on-site field support calls by using remote maintenance feature

All the Best Features in One Product Family

HMI operator interface solutions

- Data management solutions
- Multimedia HMI solutions
- HMI Control Solutions
- Built-in security HMI solutions
- Distributed & integrated I/O solutions
- Point-to-point data-sharing HMI solutions

Connectivity

- Ethernet
- Audio/video
- USB
- CompactFlash™
- RS-232/422/485
- Multi-protocol

Performance

- Crisp, clear, bright displays
- Wide viewing angles
- No-grid, analog touch screen
- 65K color support
- 64-bit RISC CPU
- Fast data sampling

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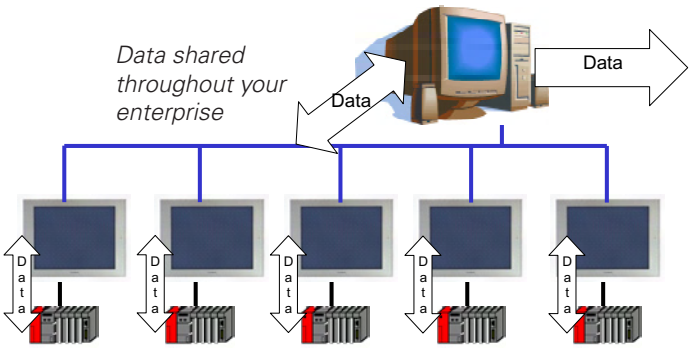
Get More From Your HMI With Pro-Server EX

Data management software
Pro-Server EX

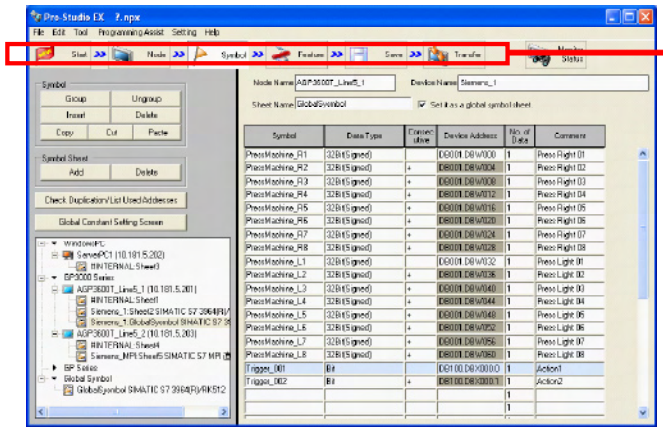
Data Management
Enhanced connectivity software

Up-to-the-minute, accurate data to optimize your productivity and maximize profits.



Collect, monitor and share factory-floor data:

- When you need it
- Where you need it
- With those who need it

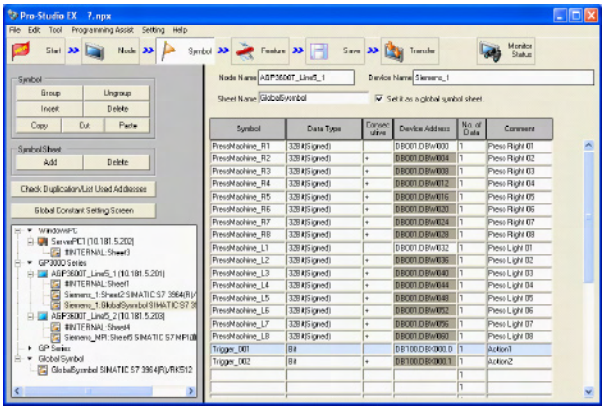


Fast and simple setup

- Fill-in-the-blank data configuration, no programming!
- Built-in templates save you time and get you started quickly
- Shares data with Windows®-based applications
- Up-to-the-minute production data
- Collect and share data with multiple AGP HMIs and other departments

Includes 29 easy-to-use Excel® templates

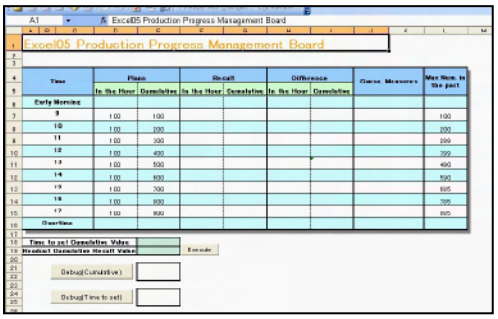
- Daily/monthly/yearly report
- Downtime shift
- Failure rate data
- Preparation time graph
- Direct first-run graph



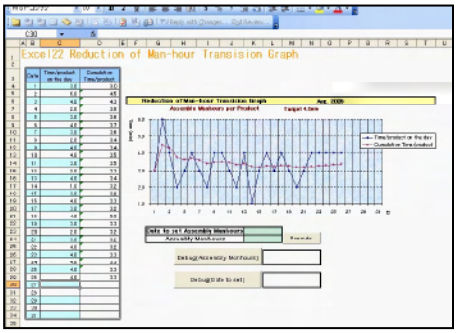
Create the report you need in minutes!
•Select data •Choose data operation •Update network
No programming required!

Report examples

Production Planning and Product Output Monitoring



Up-to-the-minute Productivity Efficiency Reports



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Factory-Floor Data at Your Fingertips

Get the competitive edge.

Information where you want it, when you want it.

Pro-Server EX Architecture Overview

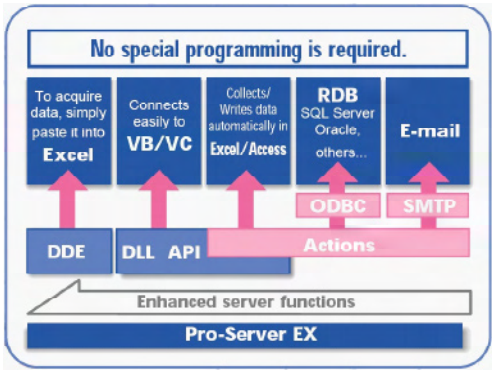
Pro-Server EX is cost-effective data management software that allows data collected by Pro-face operator interfaces to be shared and directly integrated into your existing MRP, MES business system or any Windows-based application. No additional drivers or software needed! Pro-Server EX takes advantage of all the protocol connectivity built into GP-Pro EX, allowing you to share data anywhere.

Architecture overview

Connectivity support

DDE
API (for VB or VC++)
SMTP e-mail
DLL
ODBC
Excel
Access
SQL Server

Requires: Windows® 2000 (Service Pack 3 or later), Windows® XP Home Edition/ Professional or/Server Intel Pentium® III 500MHz or more



Applications

- Share HMI data with your PC server
- Share HMI data with another HMI
  -Peer-to-peer data sharing with any Ethernet-based Pro-face HMI
- Write data to and log data from PLC
- Send e-mail to desktop, cell phone, pager, via SMTP
- Collect and write data
  -In Excel, CSV file, to or from database

Integrate into your existing enterprise system.
Save your budget, and save thousands of dollars per year!

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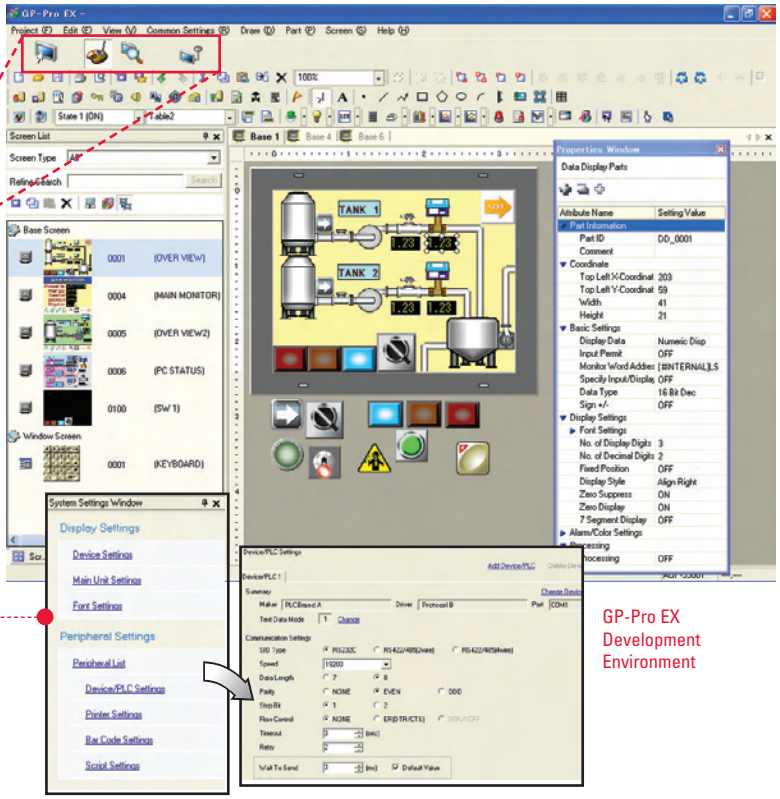
GP-Pro EX SELF-GUIDING

Intuitive HMI Screen Development Editor

With GP-Pro EX's simple four-step navigation process, HMI development has never been easier – or faster

Four Simple Steps

Icons across the top of the editor guide you through the four basic steps of screen editing with GP-Pro EX software!



GP-Pro EX Development Environment

1

ESTABLISH SYSTEM SETTINGS

Intuitive Communication Set-up

- Configure up to four different protocols that operate simultaneously
- One-step bar-code reader setup
- Scripting functions for interfacing to custom or proprietary third-party devices
- Lists recently used devices for fast access to relevant controllers

2

EDIT SCREENS

Powerful, full-featured HMI editor for fast screen development

Create complex HMI screens and reusable templates in minutes!

- Huge graphic parts library with high-resolution 2D and 3D part images
- Create standardized header and footer templates
- Multi-functional switches with on/off delay two-touch function
- Use any Windows®-based font for crisp and smooth, easy-to-read text, plus unlimited character sizing
- Double-click on a part to pop up its attribute window for easy editing
- Drag and drop parts between two projects – edit both simultaneously!

More than 1800 parts and symbols

One-click access to multiple user-defined headers (i.e. title) and footers (i.e. menu) for perfect placement. Edits to headers/footers update all screens simultaneously!

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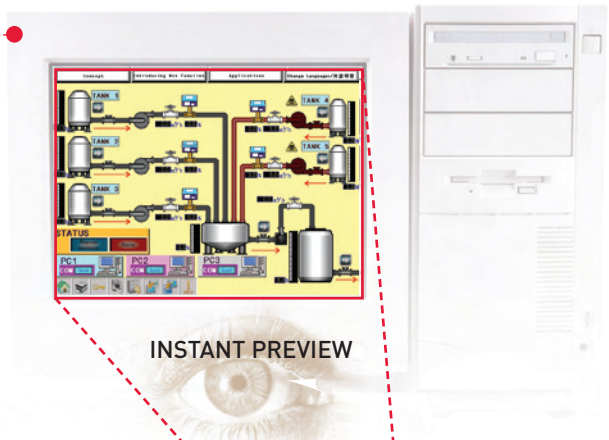
3

PREVIEW YOUR APPLICATION SCREENS

Preview your HMI application on your PC and spare yourself from unnecessary downloads.

Review your HMI screens on your PC to fine-tune the look and feel of your application. **Saves valuable time!**

- Allows you to enter data and preview the results, enhancing screen development
- **Built-in documentation** support feature allows you to quickly create an HMI specification based on selected criteria
  - Add screen captures to create clear specifications for engineering documents



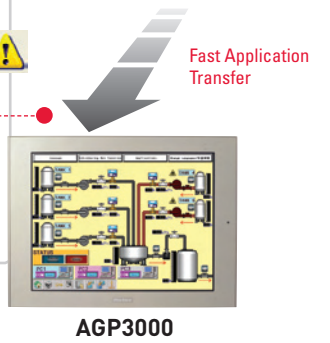
4

TRANSFER YOUR APPLICATION...AND GO!

Download your applications *in seconds, not minutes!*

Large HMI projects? No problem. The **ultra-fast AGP3000 64-bit RISC processor** provides speedy and efficient application upload and download file transfers.

- Built-in, powerful error-checking features
  - GP-Pro EX will automatically check for errors before downloading your project
  - If an error is detected, a new status window opens to quickly indicate the error and where it occurs within your application
- Download your HMI application through the Ethernet or USB ports
- Do field upgrades using the CompactFlash™ port – no software required!



AGP3000

GP-Pro EX

GP-Pro EX. Designed for the beginner, but powerful enough to satisfy even the most experienced HMI developer.

- Create highly detailed and secure applications
- Speed up development with extensive time-saving features
- Interface to any controller with extensive built-in connectivity

Start today!

Download a trial version today at www.xycom.com.

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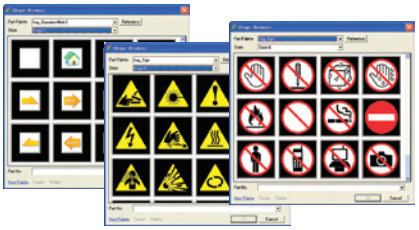
HMI Screen Editor

Self-guiding software for all AGP3000 Series HMI models

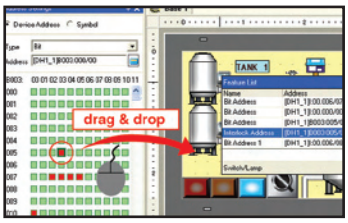
All the tools you need to create highly functional, friendly and versatile HMI applications

Setup, graphics and editing



Extensive image parts, symbols & fonts library

- Over 1,800 high-quality 3D parts provide international recognition of symbols - overcoming language barriers.
- BMP and JPG files can be freely placed and reduced/enlarged with high clarity.
- Windows®-based image fonts provide a wide range of font characters and crisp, readable text with unlimited sizing capabilities.

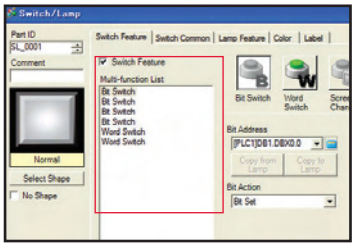


Visual PLC address mapping

- Smart visual address mapping for fast PLC-address-to-part communication connections
  - Drag and drop PLC address onto part to quickly link controller address to pushbutton, tank, graph, etc.
  - Gives a quick visual check on how each part is mapped to controller or I/O device
  - Significantly reduces screen development time
  - Quick indication of what controller addresses are still available

Multi-action switches

- Execute multiple actions with one switch
- No need to stack switches, leading to possible operator error
- Choose Bit Switch, Word Switch, Set Action setting, PLC Address, etc.



Easy bar-code reader setup

- As simple as enabling the COM port the reader is connected to
- Data is instantly displayed on the screen or can be logged
- Use for parts tracking or identifying machine operator

Part property window

- Property Window for quick review and changes of objects.
  - Change part or symbol
  - Change part attribute colors
  - PLC communication address
  - Part function type (e.g. Momentary to Toggle)

CompactFlash™ (CF card)

- Download HMI application to CompactFlash
- OEM machine field upgrades - no software needed!
- Log critical data to CF card for later retrieval and analysis
- Store large image files

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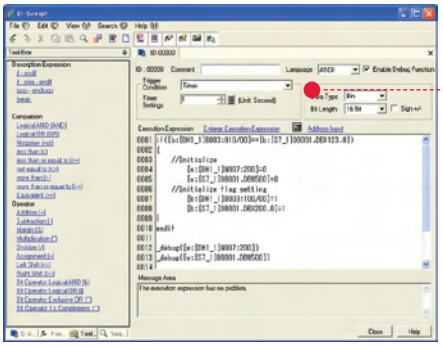
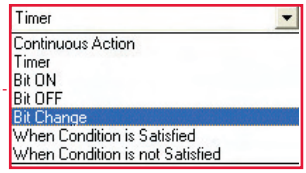
User-defined macro functionality

Powerful D-scripting

- Extend your serial communications capabilities!

  Write your own simple ASCII protocol to communicate to custom controllers, third-party I/O boards, and interface to legacy plant-floor equipment
- Create data logging algorithms – log to internal memory, CompactFlash, or print directly from AGP's touch screen, etc.
- Develop custom functions (macros) to execute a sequence of events.



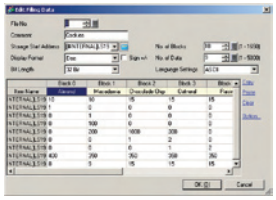


Select from various types of triggers for maximum flexibility of operations.

Advanced functionality

Recipes

- Create hundreds of recipes and load them from internal memory or CompactFlash (CF) card
  - View all recipes on one screen or use multiple screens
  - Transfer recipe values to and from PLC
  - Create recipes via CSV files and transfer to AGP3000. Lets you write recipes in Excel® or other documents



Data logging and historical trending

- Store data to CompactFlash (CF) or to a PC server for report generation
- View data from AGP3000 in historical graph format
- Real-time report generation

Alarms and events

- Quick visual of current, event-triggered and historical alarms
- View list and review detailed alarm descriptions
- Acknowledge alarms and take action or Reset and Revert back to normal operating mode

Security pop-up keypads

- Keep unauthorized users from viewing or modifying critical areas of your HMI application
  - Built-in 16 security level features to view and/or modify screens, system design
  - View data based on access level (e.g. production operator, maintenance personnel, plant-floor supervisor, HMI design engineer, etc.)

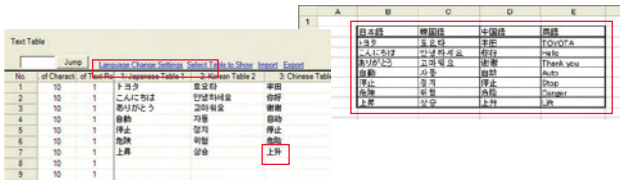
Various types of numeric and alpha-numeric keypads are available.

Time scheduling

- Standardize equipment start-up times
- Monitor productivity from each production shift
- Set up periodic routine maintenance schedules
- Use time scheduler to limit access to machine operations

Multi-language

- Supports up to 16 different languages simultaneously
- English, French, German, Spanish, Asian languages, etc.
- Operators can view all screen images in the language of their choice



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AGP3000 Multimedia Features

Multimedia: A new world of possibilities for HMI developers

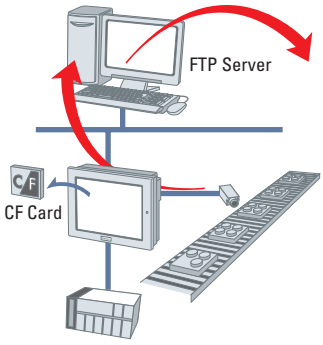
Now you can do what you always wanted to do:

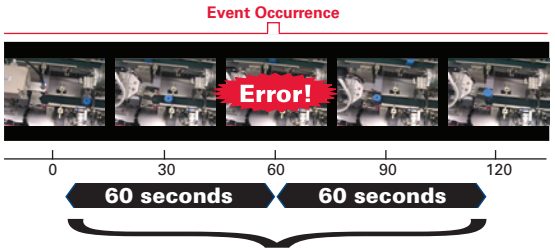
- **Capture the moment**
  Record the events that lead to machine breakdown
- **Create online audio/video machine tutorials.**
  Keeps the operator trained with latest procedures
- **Record and play back audio**
  Leave audio messages or instructions for next shift operator
- **Reduce downtime**
  -Use the movie converter software for instructor-type maintenance procedures
  -Use video cameras for remote monitoring and troubleshooting machines

Make a good impression –
Enhance the operator interface experience.

Event recorder

III You can record video and audio from a video camera connected to the built-in AGP3x50 multimedia ports. Store files on CompactFlash or place on FTP server connected to the AGP unit via Ethernet.



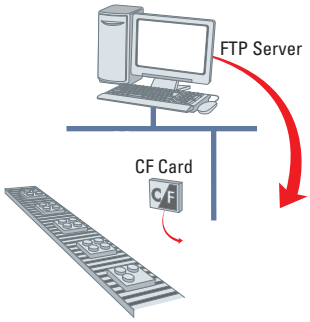


When a predefined event is triggered, video before and after the event (max. 120 sec.) is automatically recorded and stored as a log.

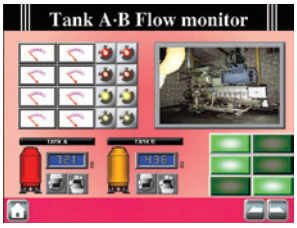
Fast & accurate troubleshooting

Movie file playback

III You can use the display of the AGP3000 to play back movie files. Simply select the desired files from a CompactFlash card or FTP server. You can also loop a series of movies.



It's easy to add movies to on-site instruction screens for better comprehension.



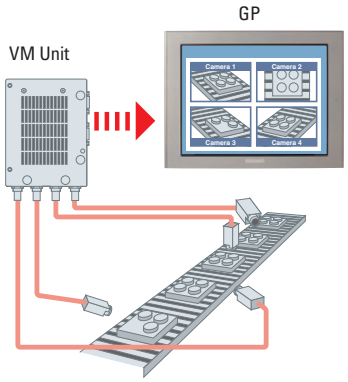
And now, you can create movie files with commercially available video software.

Note: Movie files you create must be converted with the Movie Converter EX converter tool, which requires the purchase of a license.

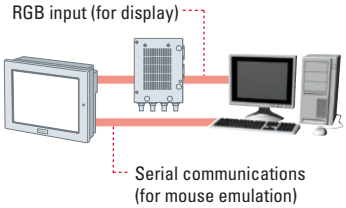
Video mix unit connection

III With a VM unit (optional), visual monitoring of work details and conditions on the production site is available in real time. Up to four cameras can be connected, with all four images displayed simultaneously on one AGP3000 screen.

Note: Not all models can connect the VM unit.



GP can control a PC by displaying the PC screen on GP by using a VM unit.



Note: Downloading Touch Panel Driver is necessary.

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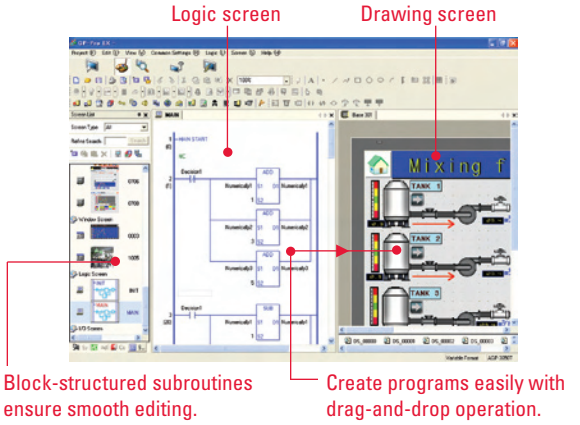
HMI control: Operator interfaces with built-in logic programming

More capabilities and features for demanding HMI applications

Logic program

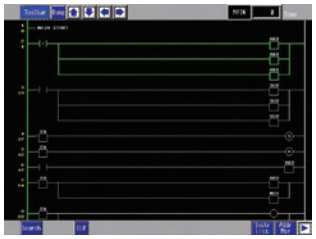
- Develop logic programs and algorithms, as well as your HMI screen application, using the same AGP3000 development environment.
- Import logic programs created from previous versions of GP-Pro/PBIII C-Package for easy upgrade to AGP3000 products.
- Symbols for drawing/editing images and variables for creating logic programs are unified.
- Symbol variables for drawing images and creating logic programs are not required to be imported or exported.
- Block-structured subroutines reduce steps for development and management of logic programs.



Now, added instructions for greater use of use.

Logic monitoring function

- You can use a variety of AGP monitoring screens to check logic programs.
- English/Japanese display is selectable.



Logic display

Displays an entire logic program so you can check the operating status and the layout of instructions.

Address display

The addresses used in a logic program are listed so you can verify the names and current values of variables.

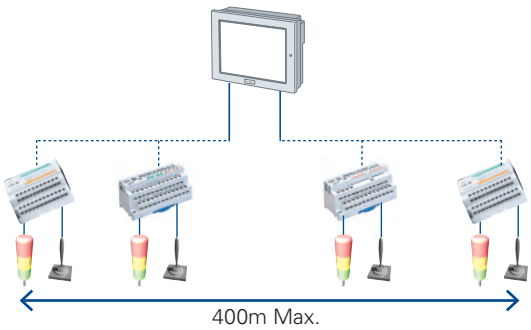
Build a Complete HMI Control System

Create an entire distributed I/O graphical HMI application using Pro-face AGP3000 HMI, GP-Pro EX HMI development software and any combination of Pro-face Flex Network I/O modules.

Features include: timers, counters, logical operations, mathematical, bit operation, etc. Mix and match any combination of analog and digital I/O modules.

63 stations max.

- 256 input points max.
- 256 output points max.
- 64 integer inputs max.
- 64 integer outputs max.



Use one HMI and control development environment to minimize the number of software packages you need to maintain and significantly reduce your support and maintenance costs.

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AGP3000 Series HMI Operator Interface and HMI Control

AGP3000 Series Lineup

15 inch

AGP-3750T

AC 100-240V DC24V

Display
- TFT Color LCD (65K colors)
- Resolution: 1024 x 768
- Analog Resistive Touch Screen (no grid)

Ports
- Ethernet: 10Base-T/100Base-TX
- USB: Two USB 1.1 Host Type A
- Video: One NTSC, PAL, SECAM input
- Audio input: Microphone input[1]
- Speaker output: 70mW
- COM Port 1: RS-232/422/485
- COM Port 2: RS-422/485
- CompactFlash card slot Type II
- Expansion bus port for optional communication modules

Environmental
- Operating temperature: 0° to 50° C
- Ratings: NEMA 4x/13, IP65f
- Humidity: 10-90% RH non-condensing
- External dimensions: W395mm [15.55in] x H294mm [11.57in] x D60mm [2.36in]

12.1 inch

AGP-3650T -3600T

AC 100-240V DC24V

Display
- TFT Color LCD (65K colors)
- Resolution: 800 x 600
- Analog Resistive Touch Screen (no grid)

Ports
- Ethernet: 10Base-T/100Base-TX
- USB: Two USB 1.1 Host Type A
- Video: One NTSC, PAL, SECAM input[1]
- Audio input: Microphone input[1]
- Speaker output: 70mW
- COM Port 1: RS-232/422/485
- COM Port 2: RS-422/485
- Video mix module support
- CompactFlash card slot Type II
- Expansion bus port for optional communication modules
- Flex Network I/O module support[2]
- Built-in 6-input/2-output sink/source[3]

Environmental
- Operating temperature: 0° to 50° C
- Ratings: NEMA 4x/13, IP65f
- Humidity: 10-90% RH non-condensing
- Ext. dimensions: W313mm [12.31in] x H239mm [9.41in] x D56mm [2.2in]

10.4 inch

AGP-3550T -3500T -3500S -3500L

AC 100-240V DC24V

Display
- TFT Color LCD (65K colors)
- STN Color LCD (4,096 colors)
- Monochrome LCD (16 shades B/W)
- Resolution: 640 x 480
- Analog Resistive Touch Screen (no grid)

Ports
- Ethernet: 10Base-T/100Base-TX
- USB: Two USB 1.1 Host Type A
- Video: One NTSC, PAL, SECAM input[1]
- Audio input: Microphone input[1]
- Speaker output: 70mW
- COM Port 1: RS-232/422/485
- COM Port 2: RS-422/485
- Video mix module support*
- CompactFlash card slot Type II
- Expansion bus port for optional communication modules**
- Flex Network I/O module support[2]
- Built-in 6-input/2-output sink/source[3]

Environmental
- Operating temperature: 0° to 50° C
- Ratings: NEMA 4x/13, IP65f
- Humidity: 10-90% RH non-condensing
- External dimensions – TFT models: W270.5mm [10.65in] x H212.5mm [8.37in] x D57mm [2.24in]
- External dimensions – STN & Mono models: W313mm [12.32in] x H239mm [9.41in] x D56mm [2.2in]

* AGP3500T, AGP3550T HMI units only
**Expansion bus and video mix unit cannot be used simultaneously.

		AGP-3750		AGP-3600/3650		AGP-3500/3550				
Display Type		TFT		TFT		TFT		STN		Mono
Rated Voltage		AC100-240V	DC24V	AC100-240V	DC24V	AC100-240V	DC24V	AC100-240V	DC24V	DC24V
Advanced Multimedia		AGP3750-T1-AF	AGP3750-T1-D24	AGP3650-T1-AF		AGP3550-T1-AF				
HMI Control Integrated	DIO Sink			AGP3600-T1-AF-D81K	AGP3600-T1-D24-D81K	AGP3500-T1-AF-D81K	AGP3500-T1-D24-D81K	AGP3500-S1-AF-D81K	AGP3500-S1-D24-D81K	
	DIO Source			AGP3600-T1-AF-D81C	AGP3600-T1-D24-D81C	AGP3500-T1-AF-D81C	AGP3500-T1-D24-D81C	AGP3500-S1-AF-D81C	AGP3500-S1-D24-D81C	AGP3500-L1-D24-D81C
	Flex Network			AGP3600-T1-AF-FN1M	AGP3600-T1-D24-FN1M	AGP3500-T1-AF-FN1M	AGP3500-T1-D24-FN1M			
Standard HMI				AGP3600-T1-AF	AGP3600-T1-D24	AGP3500-T1-AF	AGP3500-T1-D24	AGP3500-S1-AF	AGP3500-S1-D24	AGP3500-L1-D24

[1]AGP3x50 models only
[2]Discrete I/O AGP3000 "-FN1M" HMI units only
[3]AGP3000 "-D81K" and "-D81C" HMI units only

Pro-face's uniquely advanced approach to connectivity enables the AGP3000 Series to support existing equipment while accommodating future expansion.

Flex Network

Flex Network
Remote I/O System

Expansion Bus

Profibus
Profibus Slave Unit
(CA5-PFSALL/EX-01)

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

7.5 inch

5.7 inch

AGP-3450T -3400S -3400T

DC24V

Display
- TFT Color LCD (65K colors)/STN Color LCD (4,096 colors) Monochrome LCD (16 shades B/W)
- Resolution: 640 x 480
- Analog Resistive Touch Screen (no grid)

Ports
- Ethernet: 10Base-T/100Base-TX
- USB: One USB 1.1 Host Type A
- Video: One NTSC, PAL, SECAM input (AGP3450T only)
- Audio input: Microphone input (AGP3450T only)
- Speaker output: 70mW
- COM Port 1: RS-232/422/485
- COM Port 2: RS-422/485
- CompactFlash card slot Type II
- Expansion bus port for optional comm. modules
- Flex Network I/O module support[2]
- Built-in 6-input/2-output sink/source[3]

Environmental
- Operating temperature: 0° to 50° C
- Ratings: NEMA 4x/13, IP65f
- Humidity: 10-90% RH non-condensing
- External dimensions: W215mm [8.46in] x H170mm [6.69in] xD60mm [2.36in]

AGP-3300T -3301S -3300S -3301L -3300L -3302B

DC24V

Display
- TFT Color LCD (65K colors)
- STN Color LCD (4,096 colors)
- Monochrome LCD (16 shades B/W)
- Blue/white mode LCD (16 shades)
- Resolution: 320 x 240
- Analog Resistive Touch Screen (no grid)

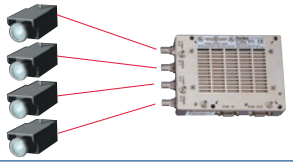
Ports
- Ethernet: 10Base-T/100Base-TX*
- USB: One USB 1.1 Host Type A
- COM Port 1: RS-232/422/485**
- COM Port 2: RS-422/485
- CompactFlash card slot Type II***
- Expansion bus port for optional comm. modules
- Flex Network I/O module support[2]
- Built-in 6-input/2-output sink/source[3]

Environmental
- Operating temperature: 0° to 50° C
- Ratings: NEMA 4x/13, IP65f
- Humidity: 10-90% RH non-condensing
- External dimensions: W167.5mm [6.59in] x H135mm [5.31in] xD59.5mm [2.34in]

*Ethernet interface not available on AGP-3301 and AGP-3302 models.
**For model AGP-3302B, COM port 1 is RS232C only.
***CF card interface is not available on model AGP-3302B.

		AGP-3400/3450		AGP-3300/01/02					
				00			01		02
Display Type		TFT	STN	TFT	STN	Mono	STN	Mono	Blue
Rated Voltage		DC24V	DC24V	DC24V	DC24V	DC24V	DC24V	DC24V	DC24V
Advanced Multimedia		AGP3450-T1-D24							
HMI Control Integrated	DIO Sink	AGP3400-T1-D24-D81K	AGP3400-S1-D24-D81K	AGP3300-T1-D24-D81K	AGP3300-S1-D24-D81K	AGP3300-L1-D24-D81K			
	DIO Source	AGP3400-T1-D24-D81C	AGP3400-S1-D24-D81C	AGP3300-T1-D24-D81C	AGP3300-S1-D24-D81C	AGP3300-L1-D24-D81C			
	Flex Network	AGP3400-T1-D24-FN1M		AGP3300-T1-D24-FN1M		AGP3300-L1-D24-FN1M			
Standard HMI		AGP3400-T1-D24	AGP3400-S1-D24	AGP3300-T1-D24	AGP3300-S1-D24	AGP3300-L1-D24	AGP3301-S1-D24	AGP3301-L1-D24	AGP3302-B1-D24

Video Mix Unit I/F



Video Mix Unit Interface
with four-camera NTSC/PAL input +RGB in/out
(GP2000-VM41)

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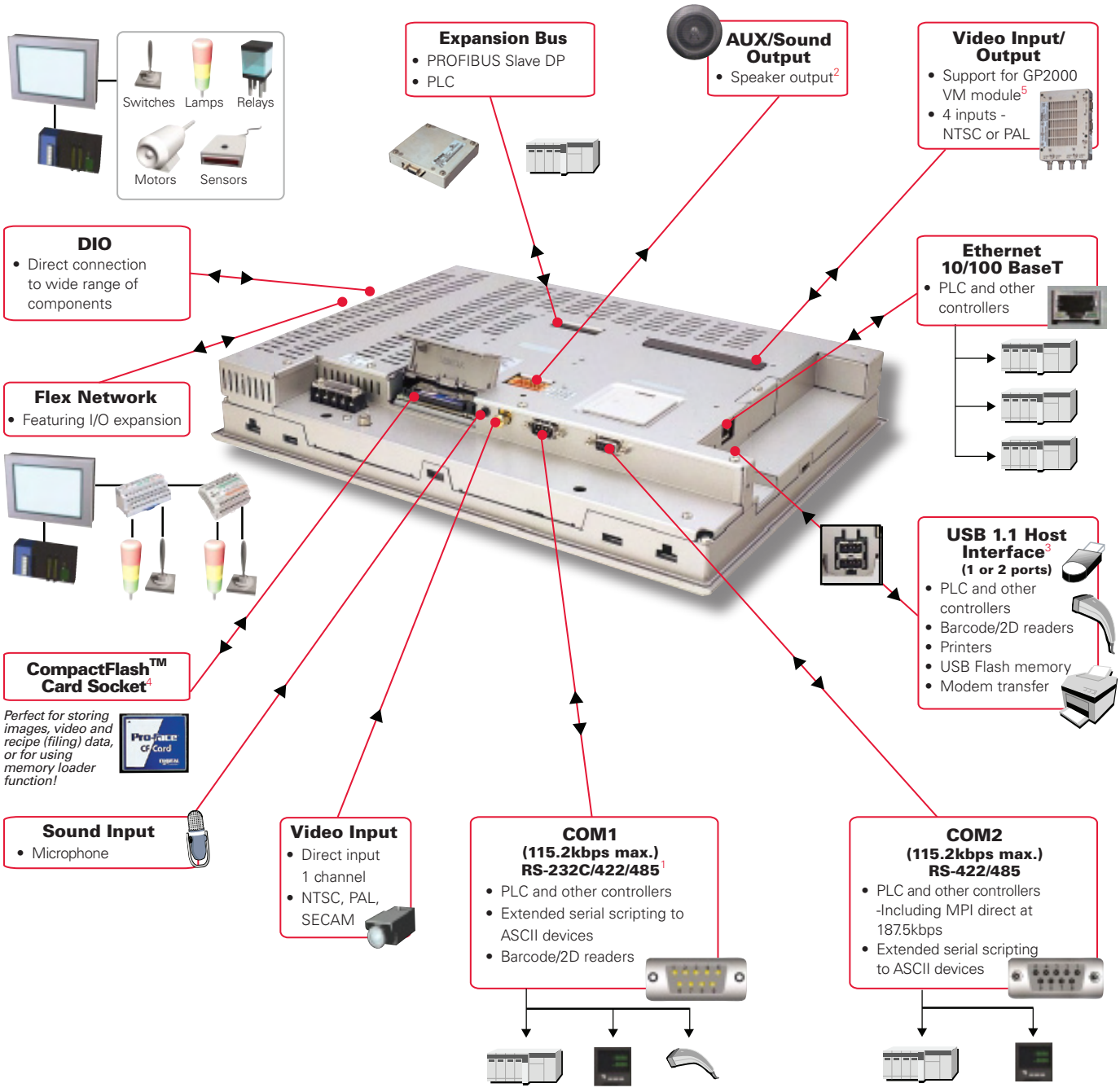
The only HMI you need.

The AGP3000's extensive array of connectivity options makes it easy to standardize on one HMI model.



[1] AGP3302-B type model only has RS-232C asynchronous transmission
[2] AGP34xx, 35xx, 36xx and 37xx models include AUX/sound outputs Sounds must be converted from .WAV format
[3] Requires CA3-USBCB-01for transfer of screen data
[4] Not available on 3302B
[5] Compatible with AGP35xxT and 36xxT TFT display models only

- These interfaces represent the entire line of AGP3000 products. See data sheets for individual model specifications.
- USB - See driver list for supported third-party devices
- Up to four PLC protocols simultaneously (AGP33xx supports two).
- Please refer to documentation for allowable configurations.

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Interface to Virtually Anything on the Factory Floor!

Interface/Model	3302B	3300L/S/T	3400S/T	3450T	3500L/S	3500T	3550T	3600T	3650T	3750T
COM1 (115.2kbps max.) RS-232C/422/485	Yes (RS232C ONLY) DB9 Socket Type	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COM2 (115.2kbps max.; 187.5kbps for MPI direct) RS-422/485	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ethernet 10/100 BaseT	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USB 1.1 Host Interface	1 port	1 port	1 port	1 port	2 ports	2 ports	2 ports	2 ports	2 ports	2 ports
CompactFlash Card Socket	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Expansion Bus	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Video	-	-	-	1 Ch Video In	-	-	1 Ch Video In	-	1 Ch Video In	1 Ch Video In
GP2000-VM41 Support	-	-	-	Yes		Yes	Yes	Yes	Yes	
Sound	-	-	Yes	Yes[1]	Yes	Yes[1]	Yes[1]	Yes	Yes[1]	Yes[1]
DIO	-	Yes[2]	Yes[2]	-	Yes[2]	Yes[2]	-	Yes[2]	-	-
Flex Network	-	Yes[3]	Yes[3]	-	Yes[3]	Yes[3]	-	Yes[3]	-	-

[1]Sounds must be converted from .WAV format. Note: AGP3x50 models also include one microphone input.
[2]Sink or Source, depending on model; refer to individual data sheets. [3]F/N AC/DC models vary; refer to individual data sheets.

Drivers

PLC Drivers

Rockwell Automation
DF1
DH-485
Ethernet I/P (Native tag support)

Siemens AG
SIMATIC S7 3964(R)/RK512
SIMATIC S7 MPI Direct
SIMATIC S7 Ethernet

GE Fanuc Automation
Series 90 Ethernet (SRTP)
Series 90-30/70 SNP
Series 90-30/70 SNP-X

Schneider Electric
MODBUS SIO[1] Master
MODBUS TCP Master
Uni-Telway
Modbus Slave (SIO[1] or Ethernet[1])

Sharp Mfg. Corp.
JW Series Computer Link SIO

YOKOGAWA Electric Corp.
Personal Computer Link SIO
Personal Computer Link Ethernet

LS Industrial Systems
Master-K Cnet

TOYODA Machine Works
TOYOPUC CMP-LINK SIO
TOYOPUC CMP-LINK Ethernet

Fuji Electric Corp.
MICREX-F Series SIO

Mitsubishi Electric Corp.
A Series CPU Direct
A Series Ethernet
A Series Computer Link
FX Series CPU Direct
FX Series Computer Link
Q Series CPU Direct
Q/QnA Serial Communication
Q/QnA Series Ethernet
Qna Series CPU Direct
QUTE Series CPU Direct
Modbus TCP Master

YASKAWA Electric Corp.
MEMOBUS SIO
MEMOBUS Ethernet

OMRON Corp.
C/CV Series HOST Link
CS/CJ Series Ethernet
CS/CJ Series HOST Link

Hitachi Industrial Equipment Systems
HIDIC H Series Ethernet
HIDIC H Series

Matsushita Electric Works
FP Series Computer Link SIO

KEYENCE Corp.
KV-700/1000 Series CPU Direct

Saia-Burgess Controls
SAIA S-Bus SIO

Temperature Controllers

Yamatake Corp.
Digital Controller SIO

RKC Instrument
Temp. Controller MODBUS SIO

OMRON Corp.
Temp. Controller CompoWay/F

Fieldbus Module

PROFIBUS International
PROFIBUS DP Slave

Other Connections

Digital Electronics Corp.
Memory Link
General Ethernet (using D-Script)[1]

[1]Contact your local sales rep for availability.

Barcode, 2D Readers & Printers

	Manufacturer	Model	Type	Comments
Serial	Aimex Corporation	BR-530RS	Pen	Requires BB-60 power supply
	OPT Electronics	OPT-6125-RS	Touch Scanner (read width: 65mm)	Requires DC5300T for power
	Denso Co.	HC-36IITR	Touch Scanner (read width: 61mm)	Requires P-200 for power, also requires KRS-423-XF1K (from Sanwa Supply) connector cable
	HHP	IT3800LR-12	Linear imager	Requires cable 42203758-03 (IT3800LR-12 Reader has been shown to work but is not fully tested)
USB	Aimex Corporation	BR-530UK	Pen	Power supply not required
	OPT Electronics	OPT-6125-USB	Touch Scanner (read width: 65 mm)	Power supply not required
	Denso Co.	HC-36TU-K	Touch Scanner (read width: 61mm)	Power supply not required
	HHP	IT5800	Hand-held Industrial Scanner	5800SR050-0F00 is complete with USB cable
	Symbol	LS3408-FZ	Hand-held Industrial Scanner	Part #LS3408-FZ20005 needs cable CBA-U01-S07ZA
	Epson	Stylus Photo R200	Inkjet printer	Use USB cable FP-US00 or commercial type
	Epson	ECS/P24-J84(C)	Command printer	Use USB conversion cable IEE1284 (commercially available)
	NEC	PC-PR201-PL	Command printer	Use USB conversion cable IEE1284 (commercially available)

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AGP3000 Connectivity and Installation Accessories

USB Transfer Cable (1m)
CA3-USBCB-01
Downloads project data created with GP-Pro EX from PC's USB port to AGP's USB port.

USB Cable (5m)
FP-US00
Connects a USB printer (Type B) port to AGP's USB port.

USB Front Cable (1m)
CA5-USBEXT-01
USB extension cable.

RS-232 Cable (5m)
CA3-CBL232/5M-01
Connects Mitsubishi PLC A-Series to the AGP RS-232 COM port.

GP RS-422 Cable (5m)
CA3-CBL422-01
Connects the AGP RS-422 COM port 2 via 9-pin plug to host controller via open wires.

RS-422 Cable (5m)
CA3-CBL422/5M-01
Connects the AGP RS-422 COM port 1 via 9-pin socket to host controller via open wires.

Mitsubishi PLC A-Series Connection Cable (5m)
CA3-CBLA-01
Connects Mitsubishi PLC A-Series and QnA-Series programming console port to AGP.

Mitsubishi PLC Q-Series Cable (5m)
CA3-CBLQ-01
Connects Mitsubishi PLC Q-Series programming console port to AGP. Connection cable.

Mitsubishi PLC Q-Series Cable (5m)
CA3-CBLLNKMQ-01
Connects Mitsubishi PLC Q-Series to the AGP RS-232C COM port. Link cable.

Mitsubishi PLC FX-Series Cable
CA3-CBLFX/5M-01 (5m)
CA3-CBLFX/1M-01 (1m)
Connects Mitsubishi PLC FX-Series programming console port to AGP RS-422 COM port.

Omron PLC SYSMAC Link Cable (5m)
CA3-CBLSYS-01
Connects Omron PLC SYSMAC Series unit to AGP RS-232C port.

GP Multi-Link Cable (5m)
CA3-CBLMLT-01
Connects a host controller to the AGP RS-422 port for multi-link (n:1) communication.

GP 2 Port Adapter Cable (5m)
CA3-MDCB11
Connects Mitsubishi PLC to the AGP RS-422 port using 2-port adapter II (GP070-MD11).

9-pin-to-25-pin RS-232C Conversion Cable
CA3-CBLCBT232-01
9-pin D-sub socket to 25-pin RS-232 cable adapter (for use with some HMI-CAB-Cxxx cables).

9-pin-to-25-pin RS-422 Conversion Cable
CA3-CBLCBT422-01
9-pin D-sub socket to 25-pin RS-422 cable adapter (for use with some HMI-CAB-Cxxx cables).

Allen-Bradley SLC 5/03, 5/04 Series Cable
HMI-CAB-ST52
HMI-CAB-ST52-30X
HMI-CAB-ST52-50X
Connects AGP3000/ST401 to A-B PLC via RS-232 9-pin D-sub.

Ethernet Crossover Cable
HMI-CAB-ETH
6-ft. HMI to PLC Ethernet port or to program HMI.

Micrologix PLC Cable
HMI-CAB-ST106
Connects AGP3000/ST401 to PLC RS-232 8-pin DIN port.

PLC Adapter Cable
HMI-CAB-ST001
Connects to AGP3000/ST40x serial port with 9-conductor open-ended wires for connecting to third-party screw terminal devices.

RS-232C Cross-Type Cable (5m)
GP410-IS00-O
25-pin D-sub connector both ends. Requires CA3-CBLCBT232-01.

Serial USB Cable for Modem Download
CA6-USB232-01

1-Amp Power Supply
510-1000-004

2-Amp Power Supply
510-1000-041
24VDC Din-Rail Mount Class 1 Div 2.

RS-485 Isolation Unit
CA3-ISO485-01

RS-232 Isolation Unit
CA3-ISO232-01

Unit for electrically isolating a serial interface signal from the AGP internal current (RS-422 and RS-485 are switchable, or RS-232C and RS-422 are switchable).

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GP-Pro EX Editor Software
EX-ED-V11
(Includes one user license.)
Movie Converter Software
EX-MOVCON-LICENSE
Additional User License
EX-ED-LICENSE

Pro-Server EX Data Management Software
EX-SDV-V10
(Includes one user license.)

Additional User License
EX-SED-LICENSE

Siemens COM Port Conversion Adapter
CA3-ADPSEI-01
9-pin D-sub to MPI adapter. Adapts COM port to accept Profibus MPI-style connectors and cables.

COM Port Conversion Adapter
CA3-ADPCOM-01
9-pin D-sub plug to 9-pin D-sub socket adapter for AGP3000 COM port 1. Not intended for AGP3302 model.

Online Adapter
CA4-ADPONL-01
9-pin D-sub plug to 9-pin D-sub socket adapter for AGP3000 COM port 2 only. NOTE: Includes network pull-up/pull-down resistors. Not intended for AGP3302 model.

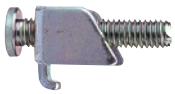
AUX Connector
CA5-AUXCNALL-01
The AUX connector for AGP3000 series required in case an external output is used.

Terminal Block Conversion
CA3-ADPTRM-01
9-pin male D-sub to screw terminal.

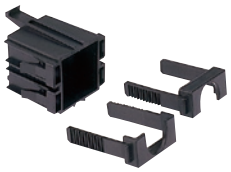
Mitsubishi PLC A, QnA, FX Series 2-Port Adapter II
GP070-MD11
Allows simultaneous use of an AGP3000 Series unit and a Mitsubishi PLC A, QnA, FX series peripheral device.

DC Power Supply Connector for AGP330x and AGP34x0 models
CA5-DCCNM-01

DC Power Supply Connector for AGP35x0 and AGP36x0 models
CA5-DCCNL-01



Installation Fastener
CA3-ATFALL-01
Used to install the AGP3000 Series into a solid panel (included with unit).



USB Cable Clamp (2-port)
CA5-USBATL-01
USB cable clamp for 2-port HMI units to prevent disconnection.

USB Cable Clamp (1 port)
CA5-USBATM-01
USB cable clamp for 1-port HMI units to prevent disconnection.

Panel Cutout Adapter for AGP3500 Series
CA4-ATM10-01
Panel cutout adapter for mounting in cutout of GP2500 (TFT).

Panel Cutout Adapter for AGP3300 Series
CA4-ATM5-01
Panel cutout adapter for mounting in cutout of GP37W2B.

PROFIBUS Slave Unit
CA5-PFSALL/EX-01
PROFIBUS slave communication module for connecting AGP to PROFIBUS DP network.

CF Card Adapter
GP077-CFAD10
Used for read/write of CF card data via a PC's PCMCIA slot.

CompactFlash card inserts into the unit's CF card slot.

128MB
CA3-CFCALL/128MB-01

256MB
CA3-CFCALL/256MB-01

512MB
CA3-CFCALL/512MB-01

AGP3500T/AGP3550T Backlight Replacement
CA5-BLU10T-01

AGP3750T Backlight Replacement
CA3-BLU15-01

AGP3600T/AGP3650T Backlight Replacement
CA3-BLU12-01

AGP3500S/GP2501S Backlight Replacement
PS501S-BU00

Note: AGP3300, AGP3400 and AGP3500L backlights cannot be replaced in the field.

Protection Sheets
Disposable, dirt-resistant cover for screen
(5 sheets/set)

15" for AGP3750 series
CA3-DFS15-01

12" for AGP3600 series
CA3-DFS12-01

10" for AGP3500 series
CA5-DFS10-01

8" for AGP3400 series
PS400-DF00

6" for AGP3300 series
CA3-DFS6-01

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I/O Expansion Options

Expand the reach of your HMI operator interface

Need some extra I/O? Now there's no need to buy an extra controller when you just need a few more I/O points. The AGP3000 Series of HMI operator interfaces includes models that feature built-In discrete I/O. Or, expand to a distributed I/O network by choosing a model with the optional flex network interface. The choice is yours. Either way, you'll save money with these cost-effective options.

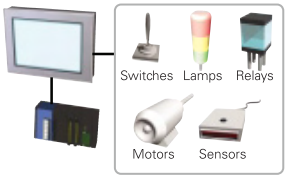
HMI Control With Integrated I/O

AGP3000 "DK81C/DK81K" Units

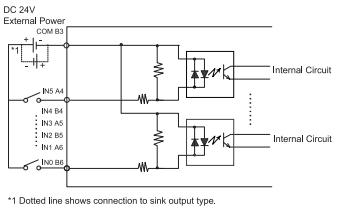
Built-In discrete I/O for when you need a few extra I/O points.

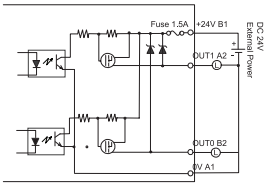
DIO type for direct connection to components

- DIO (sink) type: 6 inputs/2 outputs
- DIO (source) type: 6 inputs/2 outputs

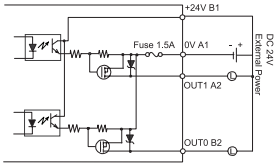


A wide range of components can be used for ON/OFF control.





Source Outputs "DK81C "



Sink Outputs "DK81K "

Built-in 6 discrete inputs, 2 outputs

HMI Control for Distributed I/O

AGP3000 "FN1M" Units

Flex network interface for distributed I/O applications.

Flex network type featuring I/O expansion

- Maximum number of expandable I/Os:
  512-bit I/Os (256 inputs and 256 outputs)
  128 integral I/Os (64 inputs and 64 outputs)

Mix and match any flex network I/O modules to fit your application needs

Discrete I/O modules

FN-X16TS41	16-pt discrete input
FN-X32TS41	32-pt discrete input
FN-Y08RL41	8-relay discrete output
FN-Y16SK41	16-pt discrete sink output
FN-Y16SC41	16-pt discrete source output

FN-X16TS41 FN-X32TS41 FN-Y08RL41 FN-Y16SK41 FN-Y16SC41

Discrete high-density I/O modules

FN-XY08TS41	8-pt discrete input, 8-pt sink output
FN-XY16SK41	16-pt discrete input, 16-pt sink output
FN-XY16SC41	16-pt discrete input, 16-pt source output
FN-XY32SKS41	32-pt discrete input, 32-pt sink output

FN-XY08TS41 FN-XY16SK41 FN-XY16SC41 FN-XY32SKS41

Analog I/O modules

FN-AD02AH41	Input 2-Ch: 0-10VDC 0-20ma, 4-20ma
FN-AD04AH11	Input 4-Ch: 0-10VDC, +/-10VDC, 0-20ma, 4-20ma
FN-DA02AH41	Output 2-Ch: 0-10VDC 0-20ma, 4-20ma
FN-DA04AH11	Output 4-Ch: 0-10VDC, +/-10VDC, 0-20ma, 4-20ma

FN-AD02AH41 FN-DA02AH41

With the AGP3000 family, you can create a complete HMI monitoring and control system in the same software development environment!

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Our Commitment to You

CELEBRATING 35 Years of Industrial Automation Solutions

A global company with a local presence

Reliable operations worldwide

Pro-face products are known worldwide for their reliability, and they are just as reliable in your facility as they are everywhere else in the world. Our extensive certifications and global support network provide you complete peace of mind. Whether you're looking for HMI products for your own facility or for facilities around the world, Pro-face is there to serve you.

Restriction of Hazardous Substances (RoHS) is a directive of the European Union (EU).

ISO 9001:2000
Quality System Certified

ISO 14000
Quality System Certified

Committed to bringing you the best HMI products

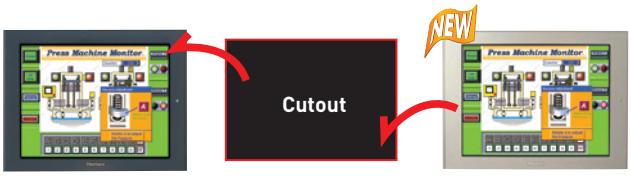
No other HMI company will offer you more options, higher reliability or better investment protection than Pro-face. Pro-face strives to continually provide you with HMI products that have features you won't find anywhere else, like ultra-fast 64-bit RISC processors for unmatched HMI performance, the ultimate in multimedia and connectivity capabilities, plus integrated data management solutions and other features proven to boost your productivity and reduce your costs.

Protecting your investment

If you're already a Pro-face customer, then you realize the investment protection we've built into our operator interfaces. No other operator interface company can offer you:

- 16 years of cutout compatibility
- Built-in HMI application software migration tools
- Continuous software and hardware enhancements
- Local field application engineers ready to assist you
- A two-year warranty
- In-stock, next-day shipments

Drag out the old...drop in the new



Older GP2000, GP77R, GP70, GP*50, GP*30, and GP*10 Series

AGP3000 Series

Panel cutout dimensions

Size (mm) / Series name	191.5x141.5	156x123.5	204.5x159.5	259x201	301.5x227.5	383.5x282.5
GP77R Series	GP-37W2B	GP377R Series	—	GP-477RE	GP577R Series	—
GP2000 Series	—	GP230* Series	GP240* Series	—	GP260* GP250* Series	—
GP3000 Series	GP-3300 Series		GP-3400 Series	GP-3500 Series(TFT)	GP-3600 GP-3500(STN) Series	GP-3700 Series

Note: In some instances, an available adapter plate may be required.

The best HMI protection money can buy.

Pro-face® XYCOM™

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

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Pro-face® XYCOM™

BR-GP3-001(B)

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CA2-DNMALL-41

DeviceNet™ Master Module

This communication module adds DeviceNet™ Master capabilities to a GLC2000 unit, and uses IEC 61131-3 compliant ladder logic to control I/O

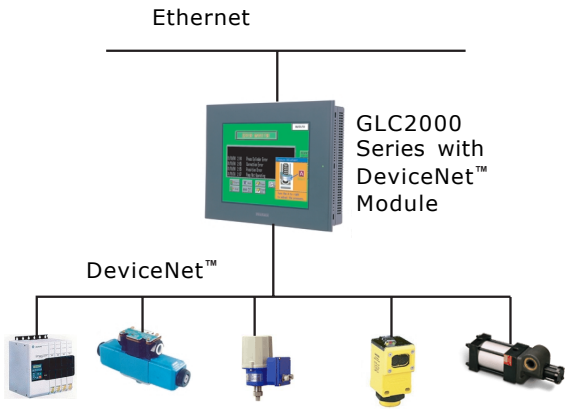
The DeviceNet™ Master Module is a cost-effective way to control a DeviceNet™ network. The GLC is a low-cost controller and HMI all-in-one box solution. By adding the Master Module to a GLC2000 Series unit, you get a popular distributed I/O architecture that will add functionality and enhanced performance. Now you can put your controller (with touch screeen) in a convenient location, and take up less space in your cabinet. One device to mount means quicker installation time. One software package programs both the screen graphics and ladder logic, thus saving time. Also, reduce application development errors by using drag-and-drop variable names from the logic editor to screen graphics.

FEATURES

- Compatible with all GLC2000 models
- Mounts on back of HMI unit
- LED indicators for Network Status
- Easy to Configure - no software needed
- Ideal for Distributed I/O Applications
- Communication Types Supported:
  - Polled
  - Strobed
  - Change of state
  - Cyclic
- DeviceNet™ Conformance Tested
- Electronic Data Sheet support and sharing
- Supports 63 DeviceNet™ nodes:
  - Each node can have 48 words or bits
  - Up to 1008 words or bits max per node

NETWORK DIAGRAM

Use a GLC Unit to provide an Ethernet interface to your DeviceNet™ network



DeviceNet® CONFORMANCE TESTED

GRAPHIC LOGIC CONTROLLER COMPATIBILITY

Can be added to the following units:

- ⇒ **GLC2300-LG41-24V**
- ⇒ **GLC2300-TC41-24V**
- ⇒ **GLC2400-TC41-24V**
- ⇒ **GLC2500-TC41-24V**
- ⇒ **GLC2600-TC41-24V**

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DEVICENET™ SPECIFICATIONS

Electrical	Voltage Requirement	24VDC (supplied by DeviceNet network)
	Power Requirement	3.3 Watts (2W from GLC, 1.3W from DeviceNet network)
	Power Consumption	20W or less
	Combined Module/Network Status	LED
	System Activity	LED
Environmental	Run/Stop	LED
	Ambient Operating Temp.	0°C to 50°C
	Storage Temperature	-20°C to 60°C
	Operating Humidity	20%RH to 85%RH (non-condensing)
	Storage Humidity	20%RH to 85%RH (non-condensing)
	Shock	15g, 1/2 sine, 11 ms
	Vibration Resistance	IEC61131-2 compliant. (.006 inch) peak to peak displacement, 1.0g maximum acceleration
DeviceNet	Baud Rate	125 Kbaud, 250 Kbaud, 500 Kbaud software selectable
	MAC ID Range	0-63
	Maximum Trunk Distance	500m (Supports up to 63 nodes and up to 48 words or bits on each (to a max. of 1008 words or bits)
Structural	Ratings	NEMA Type 4x/12/13
	Certifications	CE Marking (EN55022, Class A, EN61000-6-2), UL 508, UL1604, Class 1, Div. 2, Groups A, B, C and D, cUL - C22.2, No. 142 and 213, Class 1, Div. 2, Groups A, B, C and D
	External Dimensions	W207mm[8.15in.] x H157mm [6.18in.] x D75.8mm [2.98in.]
	Weight	1.5kg (3.3lb)

PRODUCT VIEW

SOFTWARE COMPATIBILITY

Powered by:
GP-PRO/PB III C Package03 HMI Screen Editor Development Software

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
CA2-DNMALL-41	DeviceNet™ Master Module for GLC2000 Series

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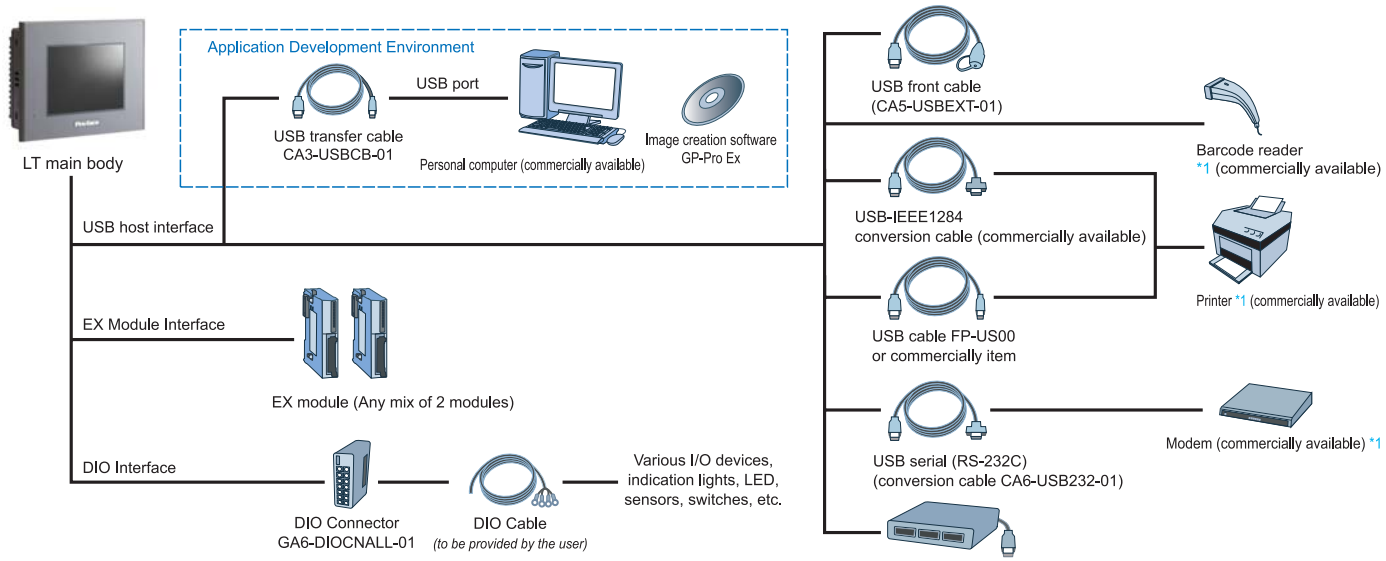
EX I/O Expansion Modules

Quick Disconnect Analog and Discrete I/O Modules

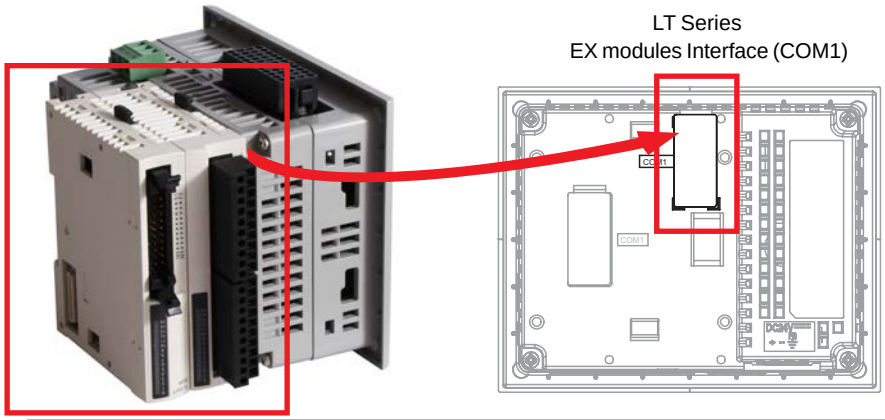
- Compatible with AGP3000 LT models
- Mix and match any combination to meet your application requirements
- Multiple combinations for on/off, start/stop, pump and flow control
- Multi-channel temperature, RTD, 4-20mA DC current, DC volts modules
- Compatible with GP-PRO EX Software version 2.0 or higher

System Configuration Chart



1* For compatible models refer to Pro-face's user support website [Help Pro!](http://www.proface.co.jp/otasuke/) Access the site "Help Pro! (C)] on GP-PRO EX's [Help (H) menu.

LT SERIES CONNECTION?



- Up to two EX modules can be combine with LT Series to expand I/O requirements

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EX MODULE SPECIFICATIONS

I/O Modules Feature Quick Disconnect Wiring

INPUT MODULE

	MODEL	EXM-DDI8DT	EXM-DDI16DT
Input	No of inputs	8 (sink and source in common use)	16 (sink and source in common use)
	Connection form	Removable screw terminal block	
	Rated input voltage	24V DC	
	Rated input current	15mA per point	7mA per point
	Input impedance	3.3 k Ω	
	Isolation method	Photocoupler between internal circuits and input signal. Inputs share a field common	
	Input response time	4ms or less	
	Status LED	LED is lighted when input is ON	
	Power consumption	0.17 W or less	0.27 W or less
	Mass/weight	85g	100g

OUTPUT MODULE

	MODEL	EXM-DRA8RT	EXM-DRA16RT	EXM-DDO8UT	EXM-DDO8TT	EXM-DDO16UK	EXM-DDO16TK
Output	No of outputs	8-point relay Normally open contact	16-point relay Normally open contact	8-point transistor sink	8-point transistor source	16-point transistor sink	16-point transistor source
	Connection form	Removable screw terminal block				Quick disconnect connector	
	Configuration of common lines	1 common per 4 points	1 common per 8 points	1 common per 8 points		1 common per 16 points	
	Max. Load Current 1point	2 A per point		0.3A per point		0.1A or less	
	Max. Load Current common	7A per common	8A per common	3A per common max		1A total for comm	
	Min load	0.1 mA/0.1V DC		-			
	Electric life	100,000 times or more (under the rated load)		-			
	Structural life	20 million times more (under no load)		-			
	Insulation method	Mechanical insulation		Output terminal to internal circuit: Photocoupler, between output terminals, no insulation			
	Response Time	10 ms or less		300 µs or less			
	Leaked current	-		0.1 mA or less			
	Status LED	LED is lighted when input is ON					
	Power consumption	1.16 W or less	2.10 W or less	0.55 W or less		1.03 W or less	
	Weight	110g	145 g	85g		70g	

ANALOG MODULE

	MODEL	EXM-AMI2HT	EXM-AMM3HT	EXM-ALM3LT	EXM-AMO1HT
Inputs	No of Inputs	2	2	2	-
	Connection form	Removable terminal block	Removable terminal block	Removable terminal block	Removable terminal block
	Input type	Voltage (0 to 10V), current (4-20 mA)		Thermocouple Type J, K, T	-
	Resolution	12-bit			-
	Last bit input value	2.5 mV, 4µA	2.5 mV, 4µA	0.15°C (PT 100 RTD)	-
				0.325°C (type K)	-
				0.300°C (type J)	-
				0.100°C (type T)	-
	Input impedance	100 MΩ or more (voltage input), 10 Ω (current input)		1 MΩ or less	-
	Insultation method	Photocoupler between internal circuits and input signal. No isolation between input channels			-
	Sampling time	20 ms or less			-
	Linkage error	± 1% of full scale			-
Outputs	No. of Outputs	-	1		
	Output type	-	Voltage (0 to 10 V), current (4 to 20 mA)		
	Resolution	-	12 bits		
	Last bit output value	-	2.5 mV (voltage output), 4 µ A (current output)		
	Output impedance	-	2kΩ or less (voltage output), 300 Ω or less (current output)		
	Insulation method	-	Photocoupler between internal circuits and output signal		
	Settling time	-	130 ms	50 ms	50 ms
	Linkage error	-	± 1% of full scale	± 1% of full scale	± 1% of full scale
Common	Connection form	Removable terminal block			
	Power consumption	0.34 W or less			
	Weight	85 g			

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EX MODULE SPECIFICATIONS

INPUT/OUTPUT MIXED MODULE

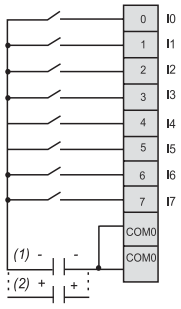
	MODEL		EXM-DMM8DRT
Inputs	No of Inputs		4 (sink/source in common use)
	Rated input voltage		24V DC
	Rated input current		7 mA / 24V DC per point
	Input impedance		3.3 kΩ
	Connection form		Removable terminal block
	Isolation		Photocoupler between internal circuits and input signal, Inputs share a field common
	Input response time		4 ms or less
Output	No of outputs		4 points, Form A, normally open contact
	Configuration of common lines		4 points / 1 common line
	Max load current	1 point	2 A or less
		common	7 A or less
	Min. Load		0.1 mA/0.1 V DC
	Electric life		100,000 times or more (under rated load)
	Structural life		20 million times more (under no load)
	Output response time	ON	6 ms or less
		OFF	10 ms or less
Common	Connection form		Terminal block
	Status LED		LED is lighted when input is ON
	Power consumption		0.65 W or less
	Weight		95g

Ordering Information

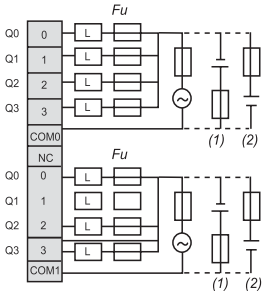
ORDER NUMBER	DESCRIPTION
EXM-DDI8DT	8-point sink/source shared I/O Unit, DC24V input signal can be connected
EXM-DDI16DT	16-point sink/source shared I/O Unit, DC24V input signal can be connected
EXM-DRA8RT	8-point relay output with 2 commons I/O Unit
EXM-DRA16RT	16-point relay output with 2 commons I/O Unit
EXM-DDO8UT	8-point transistor output sink I/O Unit
EXM-DDO16UK	16-point transistor output sink I/O Unit
EXM-DDO8TT	8-point transistor output source I/O Unit
EXM-DDO16TK	16-point transistor output source type I/O unit
EXM-DMM8DRT	4-point input sink-source, 4-point relay output with single common
EXM-AMI2HT	2-point analog input type
EXM-ALM3LT	2-point thermocouple input / 1-point analog type
EXM-AMM3HT	2-point analog input / 1-point analog output type
EXM-AMO1HT	1-point analog output type

MODULE CONNECTIONS

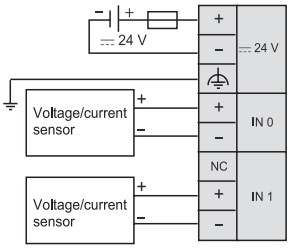
Input Module: EXM-DDI8DT



Relay Output Module:
EXM-DDRA8RT

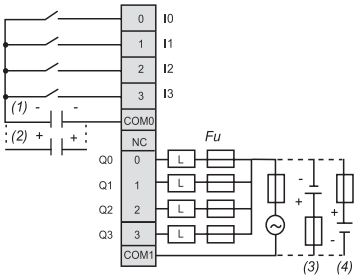


Analog Input Module:
EXM-AMI2HT



Fit a fuse of appropriate size for the sensor type.
Do not connect any wires to the unused channel.

Mixed Input/ouput Module:
EXM-DMM8DRT



The COM (+) terminals are linked internally

(1) Source input (negative logic)
(2) Sink input (positive logic)
(3) Sink output (negative logic)
(4) Source output (positive logic)

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Pro-face

Human Machine Interface

Touch Panel

Information Integration

Beautiful Graphics

Control Functions

GLC2600T

GLC2500T

GLC2400T

GLC2300T

GLC2300L

ISO9001
JQA-1367

Graphic Logic Controller

GLC 2000 SERIES Pro-face

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Graphic Logic Controller

GLC 2000 SERIES

The next-generation 1-box solution combining HMI and control functions for a wide range of systems.

- 12.1 inch
- TFT Color
- 800 x 600 pixels
- 256 Colors
- 4MB FEPROM
- 256KB SRAM
- 128KB Program Memory
- 64KB Variable Data Memory*
- 2CH Flex Network Master I/F
- COM1 (RS-232C/RS-422)
- COM2 (RS-232C)
- Ethernet
- CF Card
- Sound Interface
- Printer Interface, Narrow-pitch D-sub
- Optional Video

*Models with revisions prior to number 1 are 32 KB

GLC2600T

GLC2600-TC41-200V

GLC2600-TC41-24V

- 10.4 inch
- TFT Color
- 640 x 480 pixels
- 256 Colors
- 4MB FEPROM
- 256KB SRAM
- 128KB Program Memory
- 64KB Variable Data Memory
- 2CH Flex Network Master I/F
- COM1 (RS-232C/RS-422)
- COM2 (RS-232C)
- Ethernet
- CF Card
- Sound Interface
- Printer Interface, Narrow-pitch D-sub
- Optional Video

GLC2500T

GLC2500-TC41-200V

GLC2500-TC41-24V

- 7.4 inch
- TFT Color
- 640 x 480 pixels
- 256 Colors
- 4MB FEPROM
- 256KB SRAM
- 128KB Program Memory
- 64KB Variable Data Memory*
- 2CH Flex Network Master I/F
- COM1 (RS-232C/RS-422)
- COM2 (RS-232C)
- Ethernet
- CF Card
- Sound Interface
- Printer Interface, Narrow-pitch D-sub

*Models with revisions prior to number 1 are 32 KB

GLC2400T

GLC2400-TC41-24V

Aluminum body for superb cooling and dust resistance.

- 5.7 inch
- TFT Color
- 320 x 240 pixels
- 256 Colors
- 2MB FEPROM
- 256KB SRAM
- 128KB Program Memory
- 64KB Variable Data Memory
- 2CH Flex Network Master I/F
- COM1 (RS-232C/RS-422)
- COM2 (RS-232C)
- Ethernet
- CF Card

GLC2300T

GLC2300-TC41-24V

- 5.7 inch
- Monochrome LCD
- 320 x 240 pixels
- Black & White, Gray Scale
- 2MB FEPROM
- 256KB SRAM
- 128KB Program Memory
- 64KB Variable Data Memory
- 2CH Flex Network Master I/F
- COM1 (RS-232C/RS-422)
- COM2 (RS-232C)
- Ethernet
- CF Card

GLC2300L

GLC2300-LG41-24V

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Graphic Logic Controller

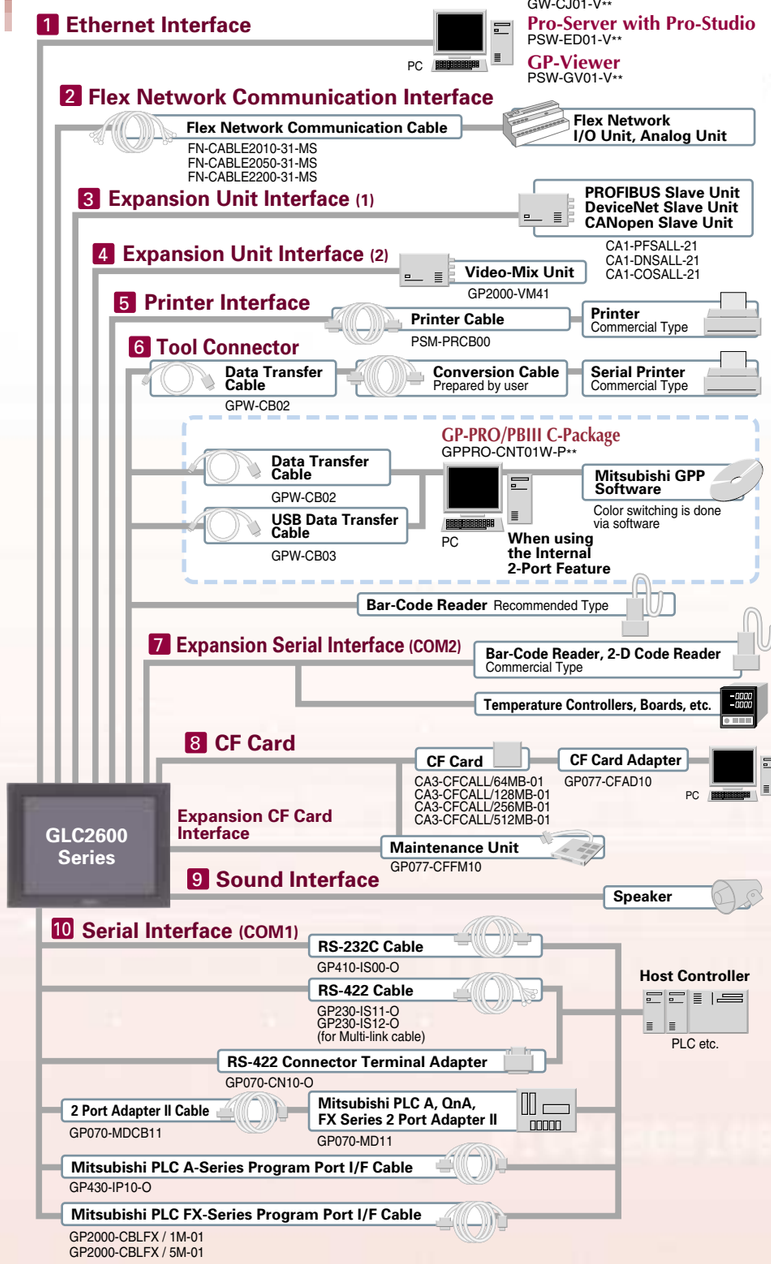
GLC 2600 Series

Adding the Video-mix Unit allows simultaneous video/PC display on the easy-viewing 12.1-inch screen of the top GLC model.

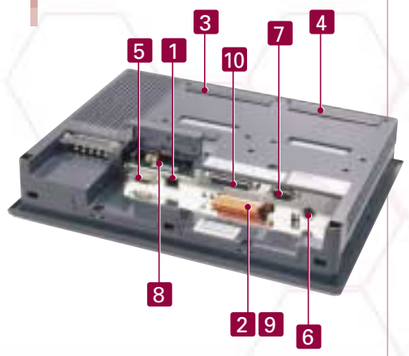
TFT Color · **12.1 inch** · **800 x 600 Pixels**

GLC2600T

SYSTEM DESIGN

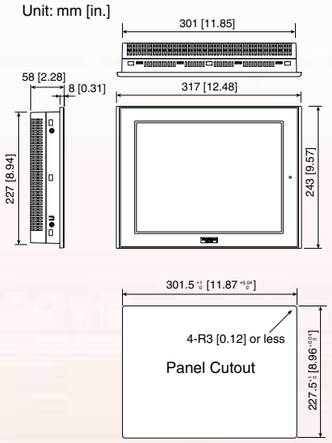


INTERFACES



EXTERNAL DIMENSIONS

Unit: mm [in.]



FUNCTIONAL SPECIFICATIONS

Model		GLC2600-TC41-200V/GLC2600-TC41-24V
Display Type		TFT Color LCD
Display Colors		256 colors, No blink/64 colors, 3-speed blink (Color switching is done via software)*1
Backlight		CCFL (Service life: 50,000 hrs. at 25°C and 24 hrs. operation) User replaceable.
Display Resolution		800 x 600 pixels
Effective Display Area		W246.0mm [9.69in.] x H184.5mm [7.27in.]
Brightness Control		4 levels of adjustment available via touch panel
Language Fonts		ASCII: (Code page 850) Alphanumeric (including European characters) Chinese: (GB2312-80 codes) simplified Chinese fonts Japanese: ANK 158, Kanji: 6962 (JIS Standards 1 and 2) Korean: (KSC5601-1992 codes) Hangul fonts Taiwanese: (Big 5 codes) traditional Chinese fonts
Text	8 x 8 dots	100 Char. x 75 rows
	8 x 16 dots	100 Char. x 37 rows
	16 x 16 dots	50 Char. x 37 rows
	32 x 32 dots	25 Char. x 18 rows
Character Sizes*2		8 x 8 dot font, 8 x 16 dot font, 16 x 16 dot font, 32 x 32 dot font
Font Sizes		Width: 1~8 times expandable / Height: 1/2*3, 1~8 times expandable
Touch Panel Resolution		40 x 30 keys / screen - 1 or 2 point touch
Control Memory*4	Application	4MB FLASH FEPROM (Approx. 1280 screens at 3.2KB/screen)
	Data Backup	256KB SRAM - uses a lithium battery*5
	Program Area	128KB FLASH EPROM
	Variable Area	64KB SRAM*6 - uses a lithium battery*5
Serial Interface (COM1)		Asynchronous Transmission : RS-232C/RS-422 Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400bps to 115.2kbps (MPI: 187.5kbps)*7
Expansion Serial Interface (COM2)		Asynchronous Transmission : RS-232C Data Length : 7 or 8 bits Stop Bit : 1 or 2 bits Parity : None, Odd or Even Data Transmission Speed : 2,400 bps to 38.4Kbps
Ethernet Interface		IEEE802.3 10BASE-T
Tool Connector Interface		Asynchronous TTL level nonprocedural command I/F <During screen file development> Used for transferring data to and from the GLC application software and the GLC. Used for data transfer with the 2-Port feature. <During Logic Program Development> Used for transferring data to and from the Logic Program Development software and the GLC. <During RUN Mode> Used for a variety of devices, including bar-code readers.
CF Card Interface		1 slot (CompactFlash™)
Expansion CF Card Interface		CF Card Front Maintenance Unit Connector
Printer Interface		Compatible with NEC PC-PR201/PL, EPSON ESC/P24-J84(C), HP Laser Jet PCL 4 command, EPSON PM/Stylus (6-color ink), EPSON Stylus (4-color) compatible printers*8
External Reset Input I/F		Remote Reset Input:1 point Input Voltage: DC24V+/–10%, Input Current: 4mA (TYP), Min. Input Pulse Width:2ms Operating Voltage: (When ON) Min. DC21.2V, (When OFF) Max. DC3V Isolation Method: Photo-coupler Isolation
Expansion Unit Interface		Video-Mix Unit
Flex Network	Communication Style	1: N
	Connection Format	Multi Drop Connection
	Communication Range	200m/CH at 6Mbps, 100m/CH at 12Mbps
	Communication Format	Cyclic Data Transfer, Half-duplex
	Communication Speed	6Mbps, 12Mbps
	Communication I/F	Differential method, Pulse Transformer Insulation method
	Error Check	Format Test, Bit Test, CRC-12 Test
	Max. Number of Nodes	63 (1008 I/O points)
Sound Output		External Speaker Connection (Terminal Block) Monaural 1CH Speaker Output 70mW (Rated Load: 8Ω, Frequency: 1kHz) Sound Line Out Output 2.7Vp-p (Rated Load: 10kΩ) Recommended Wire: AWG#28 to #16

*1 Changing the colors setting to "256 colors" will disable the blink feature on all screens in your project. If you wish to use the blink feature, do not change this setting to "256 colors".

*2 The font size varies depending on the selected language and expansion ratio.

*3 Only available when using "1/2 2 Byte Character" settings via software. (Only Japanese, Chinese, Taiwanese, and Korean characters)

*4 128 KB of SRAM is reserved for the Online Editor.

*5 A Lithium battery's lifetime is :
- 10 years when the battery's ambient temperature is 40°C or less.
- 4.1 years when the battery's ambient temperature is 50°C or less.
- 1.5 years when the battery's ambient temperature is 60°C or less.

When used for backup :
- Approximately 60 days, with a fully charged battery.
- Approximately 6 days, with a half-charged battery.

*6 Models with revisions prior to number 1 are 32 KB.

*7 SIEMENS SIMATIC S7-200/300/400 series (MPI port only). Please contact your Pro-face sales representative for supported models and other details.

*8 Printers with only Windows drivers cannot be used. However, certain types of printers with both Windows® and DOS® drivers can be used. For details, contact your local GLC distributor.

GENERAL SPECIFICATIONS

Model		GLC2600-TC41-200V	GLC2600-TC41-24V
Electrical	Rated Voltage	AC100V to AC240V	DC24V
	Rated Voltage Range	AC85V to AC265V	DC19.2V to DC28.8V
	Power Consumption	50VA or less (ACIN100V) 85VA or less (ACIN240V)	50W or less
	Allowable Voltage Drop	20ms or less	10ms or less
	Voltage Endurance	AC1500V 20mA for 1 minute (between charging and FG terminals)	AC1000V 20mA for 1 minute (between charging and FG terminals)
	Insulation Resistance	10MΩ or higher at DC500V (between charging and FG terminals)	
Environmental	Ambient Operating Temperature	0°C to +50°C*1	
	Storage Temperature	-20°C to +60°C	
	Operating Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)	
	Storage Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)	
	Vibration Resistance	IEC61131-2 (JIS B 3501) compliant When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s² When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times (80min.)	
	Noise Immunity (via noise simulator)	Noise Voltage:1500Vp-p, Pulse Duration:1 µs Arise Time: 1ns	
	Electrostatic Discharge Immunity	Contact Discharge Method 6kV (complies with IEC 61000-4-2 Level 3)	
	Air Purity (Dust)	0.1mg/m³ or less (non-conductive levels)	
	Atmospheric Endurance	800hPa to 1,114hPa (2,000 meters or lower)	
	Corrosive Gasses	Free of corrosive gases	
Structural	Grounding	100Ω or less, or your country's applicable standard*2	
	Ratings	Equivalent to IP65f (JEM1030)*3, and NEMA#250 Type4 X/12 (limited to the front face after installation in a panel)	
	Certifications	EN55011 Class A, EN61000-3-2, EN61000-3-3, EN61000-6-2, EN60950, UL 60950, UL1604	EN55011 Class A, EN61000-6-2, UL 508, UL 1604
	External Dimensions	W317mm [12.48in.] x H243mm [9.57in.] x D58mm [2.28in.] (main unit only)	
	Weight	3.5kg (7.72lb) or less (main unit only)	
	Cooling Method	Natural air circulation	

*1 Operating temperature reflects the panel external (GLC unit front face) and panel internal temperatures.

*2 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation. For more information, please contact your GLC distributor.

*3 The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment. Be sure to confirm your work environment requirements prior to installation.

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

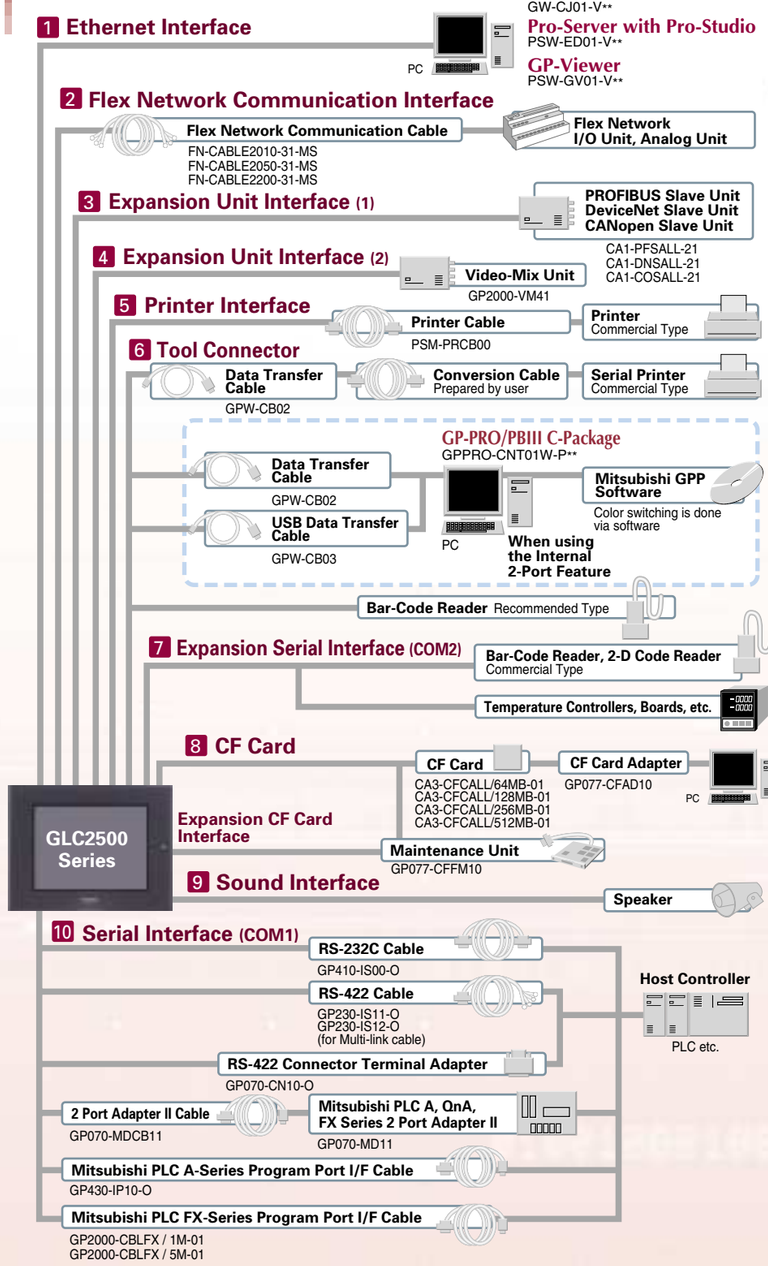
Graphic Logic Controller

GLC 2500 Series

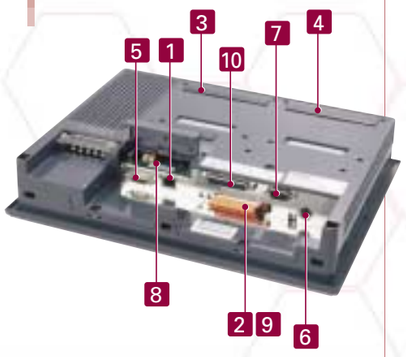
10.4-inch TFT color LCD with two power supplies to choose from.
Standard models with a wide range of interfaces.

GLC2500T

SYSTEM DESIGN

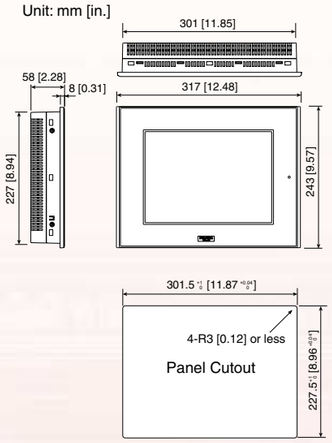


INTERFACES



EXTERNAL DIMENSIONS

Unit: mm [in.]



FUNCTIONAL SPECIFICATIONS

Model		GLC2500-TC41-200V/GLC2500-TC41-24V
Display Type		TFT Color LCD
Display Colors		256 colors, No blink/64 colors, 3-speed blink (Color switching is done via software)*1
Backlight		CCFL (Service life: 50,000 hrs. at 25°C and 24 hrs. operation) User replaceable.
Display Resolution		640 x 480 pixels
Effective Display Area		W211.2mm [8.31in.] x H158.4mm [6.24in.]
Brightness Control		4 levels of adjustment available via touch panel
Language Fonts		ASCII: (Code page 850) Alphanumeric (including European characters) Chinese: (GB2312-80 codes) simplified Chinese fonts Japanese: ANK 158, Kanji: 6962 (JIS Standards 1 and 2) Korean: (KSC5601-1992 codes) Hangul fonts Taiwanese: (Big 5 codes) traditional Chinese fonts
Text	8 x 8 dots	80 Char. x 60 rows
	8 x 16 dots	80 Char. x 30 rows
	16 x 16 dots	40 Char. x 30 rows
	32 x 32 dots	20 Char. x 15 rows
Character Sizes*2		8 x 8 dot font, 8 x 16 dot font, 16 x 16 dot font, 32 x 32 dot font
Font Sizes		Width: 1~8 times expandable / Height: 1/2*3, 1~8 times expandable
Touch Panel Resolution		32 x 24 keys / screen - 1 or 2 point touch
Memory	Application	4MB FLASH FEPROM (Approx. 1280 screens at 3.2KB/screen)
	Data Backup	256KB SRAM - uses a lithium battery*5
Control Memory*4	Program Area	128KB FLASH EPROM
	Variable Area	64KB SRAM - uses a lithium battery*5
Serial Interface (COM1)		Asynchronous Transmission : RS-232C/RS-422 Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400bps to 115.2kbps (MPI: 187.5kbps)*6
Expansion Serial Interface (COM2)		Asynchronous Transmission : RS-232C Data Length : 7 or 8 bits Stop Bit : 1 or 2 bits Parity : None, Odd or Even Data Transmission Speed : 2,400 bps to 38.4Kbps
Ethernet Interface		IEEE802.3 10BASE-T
Tool Connector Interface		Asynchronous TTL level nonprocedural command I/F <During screen file development> Used for transferring data to and from the GLC application software and the GLC. Used for data transfer with the 2-Port feature. <During Logic Program Development> Used for transferring data to and from the Logic Program Development software and the GLC. <During RUN Mode> Used for a variety of devices, including bar-code readers.
CF Card Interface		1 slot (CompactFlash™)
Expansion CF Card Interface		CF Card Front Maintenance Unit Connector
Printer Interface		Compatible with NEC PC-PR201/PL, EPSON ESC/P24-J84(C), HP Laser Jet PCL 4 command, EPSON PM/Stylus (6-color ink), EPSON Stylus (4-color) compatible printers*7
External Reset Input I/F		Remote Reset Input:1 point Input Voltage: DC24V+/–10%, Input Current: 4mA (TYP), Min. Input Pulse Width:2ms Operating Voltage: (When ON) Min. DC21.2V, (When OFF) Max. DC3V Isolation Method: Photo-coupler Isolation
Expansion Unit Interface		Video-Mix Unit
Flex Network	Communication Style	1: N
	Connection Format	Multi Drop Connection
	Communication Range	200m/CH at 6Mbps, 100m/CH at 12Mbps
	Communication Format	Cyclic Data Transfer, Half-duplex
	Communication Speed	6Mbps, 12Mbps
	Communication I/F	Differential method, Pulse Transformer Insulation method
	Error Check	Format Test, Bit Test, CRC-12 Test
	Max. Number of Nodes	63 (1008 I/O points)
Sound Output		External Speaker Connection (Terminal Block) Monaural 1CH Sound Line Out Output 2.7Vp-p (Rated Load: 10kΩ) Speaker Output 70mW (Rated Load: 8Ω, Frequency: 1kHz) Recommended Wire: AWG#28 to #16

*1 Changing the colors setting to "256 colors" will disable the blink feature on all screens in your project. If you wish to use the blink feature, do not change this setting to "256 colors".

*2 The font size varies depending on the selected language and expansion ratio.

*3 Only available when using "1/2 2 Byte Character" settings via software. (Only Japanese, Chinese, Taiwanese, and Korean characters)

*4 128 KB of SRAM is reserved for the Online Editor.

*5 A Lithium battery's lifetime is :
- 10 years when the battery's ambient temperature is 40°C or less.
- 4.1 years when the battery's ambient temperature is 50°C or less.
- 1.5 years when the battery's ambient temperature is 60°C or less.

When used for backup :
- Approximately 60 days, with a fully charged battery.
- Approximately 6 days, with a half-charged battery.

*6 SIEMENS SIMATIC S7-200/300/400 series (MPI port only). Please contact your Pro-face sales representative for supported models and other details.

*7 Printers with only Windows drivers cannot be used. However, certain types of printers with both Windows® and DOS® drivers can be used. For details, contact your local GLC distributor.

GENERAL SPECIFICATIONS

Model		GLC2500-TC41-200V	GLC2500-TC41-24V
Electrical	Rated Voltage	AC100V to AC240V	DC24V
	Rated Voltage Range	AC85V to AC265V	DC19.2V to DC28.8V
	Power Consumption	50VA or less (ACIN100V) 85VA or less (ACIN240V)	50W or less
	Allowable Voltage Drop	20ms or less	10ms or less
	Voltage Endurance	AC1500V 20mA for 1 minute (between charging and FG terminals)	AC1000V 20mA for 1 minute (between charging and FG terminals)
	Insulation Resistance	10MΩ or higher at DC500V (between charging and FG terminals)	
Environmental	Ambient Operating Temperature	0°C to +50°C	
	Storage Temperature	-20°C to +60°C	
	Operating Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)	
	Storage Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)	
	Vibration Resistance	IEC61131-2 (JIS B 3501) compliant When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s² When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times (80min.)	
	Noise Immunity (via noise simulator)	Noise Voltage: 1500Vp-p, Pulse Duration:1 µs Arise Time: 1ns	
	Electrostatic Discharge Immunity	Contact Discharge Method 6kV (complies with IEC 61000-4-2 Level 3)	
	Air Purity (Dust)	0.1mg/m³ or less (non-conductive levels)	
	Atmospheric Endurance	800hPa to 1,114hPa (2,000 meters or lower)	
	Corrosive Gasses	Free of corrosive gases	
Structural	Grounding	100Ω or less, or your country's applicable standard*1	
	Ratings	Equivalent to IP65f (JEM1030)*2, and NEMA#250 Type4 X/12 (limited to the front face after installation in a panel)	
	Certifications	EN55011 Class A, EN61000-3-2, EN61000-3-3, EN61000-6-2, EN60950, UL 60950, UL1604	EN55011 Class A, EN61000-6-2, UL 508, UL 1604
	External Dimensions	W317mm [12.48in.] x H243mm [9.57in.] x D58mm [2.28in.] (main unit only)	
	Weight	3.5kg (7.72lb) or less (main unit only)	
	Cooling Method	Natural air circulation	

*1 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation. For more information, please contact your GLC distributor.

*2 The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment. Be sure to confirm your work environment requirements prior to installation.

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

Graphic Logic Controller

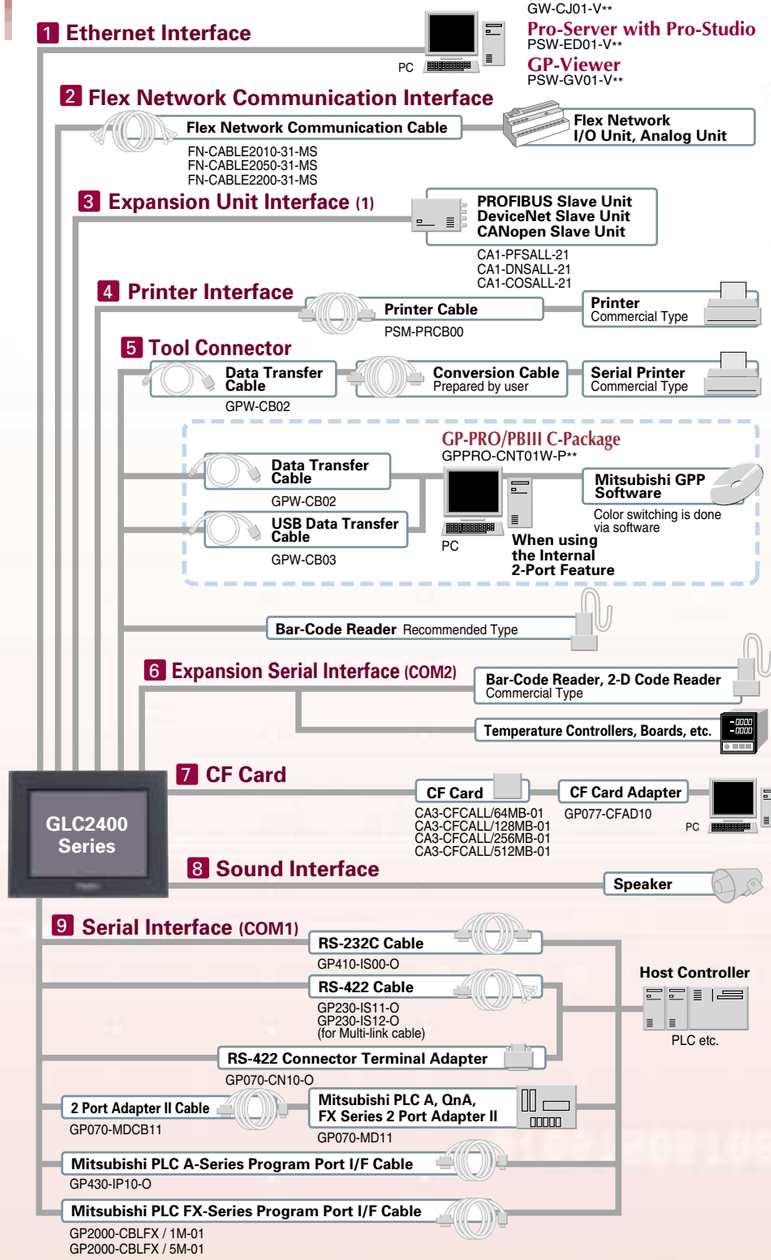
GLC 2400 Series

The 7.4-inch size with 640 x 480 pixels resolution meets a variety of applications, from large-size equipment to panel integration.

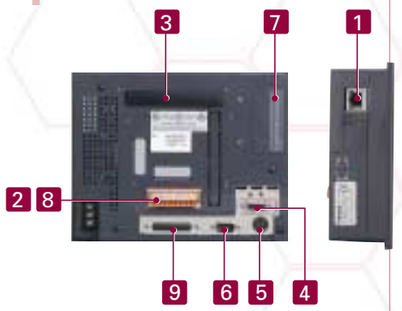
7.4 inch · **TFT Color** · **640 x 480 Pixels**

GLC2400T

SYSTEM DESIGN

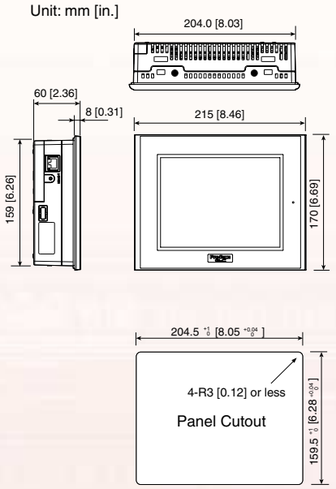


INTERFACES



EXTERNAL DIMENSIONS

Unit: mm [in.]



FUNCTIONAL SPECIFICATIONS

Model		GLC2400-TC41-24V
Display Type		TFT Color LCD
Display Colors		256 colors, No blink/64 colors, 3-speed blink (Color switching is done via software)*1
Backlight		CCFL (Service life: 50,000 hrs. at 25°C and 24 hrs. operation) User replaceable.
Display Resolution		640 x 480 pixels
Effective Display Area		W149.8mm [5.90in.] x H112.3mm [4.42in.]
Brightness Control		4 levels of adjustment available via touch panel
Language Fonts		ASCII: (Code page 850) Alphanumeric (including European characters) Chinese: (GB2312-80 codes) simplified Chinese fonts Japanese: ANK 158, Kanji: 6962 (JIS Standards 1 and 2) Korean: (KSC5601-1992 codes) Hangul fonts Taiwanese: (Big 5 codes) traditional Chinese fonts
Text	8 x 8 dots	80 Char. x 60 rows
	8 x 16 dots	80 Char. x 30 rows
	16 x 16 dots	40 Char. x 30 rows
	32 x 32 dots	20 Char. x 15 rows
Character Sizes*2		8 x 8 dot font, 8 x 16 dot font, 16 x 16 dot font, 32 x 32 dot font
Font Sizes		Width: 1~8 times expandable / Height: 1/2*3, 1~8 times expandable
Touch Panel Resolution		32 x 24 keys / screen - 1 or 2 point touch
Memory	Application	4MB FLASH FEPROM (Approx. 1280 screens at 3.2KB/screen)
	Data Backup	256KB SRAM - uses a lithium battery*5
Control Memory*4	Program Area	128KB FLASH EPROM
	Variable Area	64KB SRAM*6 - uses a lithium battery*5
Serial Interface (COM1)		Asynchronous Transmission : RS-232C/RS-422 Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400bps to 115.2kbps (MPI: 187.5kbps)*7
Expansion Serial Interface (COM2)		Asynchronous Transmission : RS-232C Data Length : 7 or 8 bits Stop Bit : 1 or 2 bits Parity : None, Odd or Even Data Transmission Speed : 2,400 bps to 38.4kbps
Ethernet Interface		IEEE802.3 10BASE-T
Tool Connector Interface		Asynchronous TTL level nonprocedural command I/F <During screen file development> Used for transferring data to and from the GLC application software and the GLC. Used for data transfer with the 2-Port feature. <During Logic Program Development> Used for transferring data to and from the Logic Program Development software and the GLC. <During RUN Mode> Used for a variety of devices, including bar-code readers.
CF Card Interface		1 slot (CompactFlash™)
Expansion CF Card Interface		—
Printer Interface		Compatible with NEC PC-PR201/PL, EPSON ESC/P24-J84(C), HP Laser Jet PCL 4 command, EPSON PM/Stylus (6-color ink), EPSON Stylus (4-color) compatible printers*8
External Reset Input I/F		Remote Reset Input:1 point Input Voltage: DC24V+/–10%, Input Current: 4mA (TYP), Min. Input Pulse Width:2ms Operating Voltage: (When ON) Min. DC21.2V, (When OFF) Max. DC3V Isolation Method: Photo-coupler Isolation
Flex Network	Communication Style	1: N
	Connection Format	Multi Drop Connection
	Communication Range	200m/CH at 6Mbps, 100m/CH at 12Mbps
	Communication Format	Cyclic Data Transfer, Half-duplex
	Communication Speed	6Mbps, 12Mbps
	Communication I/F	Differential method, Pulse Transformer Insulation method
	Error Check	Format Test, Bit Test, CRC-12 Test
	Max. Number of Nodes	63 (1008 I/O points)
Sound Output		External Speaker Connection (Terminal Block) Monaural 1CH Sound Line Out Output 2.7Vp-p (Rated Load: 10kΩ) Speaker Output 70mW (Rated Load: 8Ω, Frequency: 1kHz) Recommended Wire: AWG#28 to #16

*1 Changing the colors setting to "256 colors" will disable the blink feature on all screens in your project. If you wish to use the blink feature, do not change this setting to "256 colors".

*2 The font size varies depending on the selected language and expansion ratio.

*3 Only available when using "1/2 2 Byte Character" settings via software. (Only Japanese, Chinese, Taiwanese, and Korean characters)

*4 128 KB of SRAM is reserved for the Online Editor.

*5 A Lithium battery's lifetime is :
- 10 years when the battery's ambient temperature is 40°C or less.
- 4.1 years when the battery's ambient temperature is 50°C or less.
- 1.5 years when the battery's ambient temperature is 60°C or less.

When used for backup :
- Approximately 60 days, with a fully charged battery.
- Approximately 6 days, with a half-charged battery.

*6 Models with revisions prior to number 1 are 32 KB.

*7 SIEMENS SIMATIC S7-200/300/400 series (MPI port only). Please contact your Pro-face sales representative for supported models and other details.

*8 Printers with only Windows drivers cannot be used. However, certain types of printers with both Windows® and DOS® drivers can be used. For details, contact your local GLC distributor.

GENERAL SPECIFICATIONS

Model		GLC2400-TC41-24V
Electrical	Rated Voltage	DC24V
	Rated Voltage Range	DC19.2V to DC28.8V
	Power Consumption	28W or less
	Allowable Voltage Drop	10ms or less
	Voltage Endurance	AC1000V 20mA for 1 minute (between charging and FG terminals)
	Insulation Resistance	10MΩ or higher at DC500V (between charging and FG terminals)
Environmental	Ambient Operating Temperature	0°C to +50°C
	Storage Temperature	-20°C to +60°C
	Operating Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)
	Storage Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)
	Vibration Resistance	IEC61131-2 (JIS B 3501) compliant When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s² When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times (80min.)
	Noise Immunity (via noise simulator)	Noise Voltage: 1500Vp-p, Pulse Duration:1 µs Arise Time: 1ns
	Electrostatic Discharge Immunity	Contact Discharge Method 6kV (complies with IEC 61000-4-2 Level 3)
	Air Purity (Dust)	0.1mg/m³ or less (non-conductive levels)
	Atmospheric Endurance	800hPa to 1,114hPa (2,000 meters or lower)
	Corrosive Gasses	Free of corrosive gases
Structural	Grounding	100Ω or less, or your country's applicable standard*1
	Ratings	Equivalent to IP65f (JEM1030)*2, and NEMA#250 Type4 X/12 (limited to the front face after installation in a panel)
	Certifications	EN55011 Class A, EN61000-6-2, UL 508, UL 1604
	External Dimensions	W215mm [8.46in.] x H170mm [6.69in.] x D60mm [2.36in.]
	Weight	1.7kg (3.7lb) or less
	Cooling Method	Natural air circulation

*1 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation. For more information, please contact your GLC distributor.

*2 The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment. Be sure to confirm your work environment requirements prior to installation.

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

Graphic Logic Controller

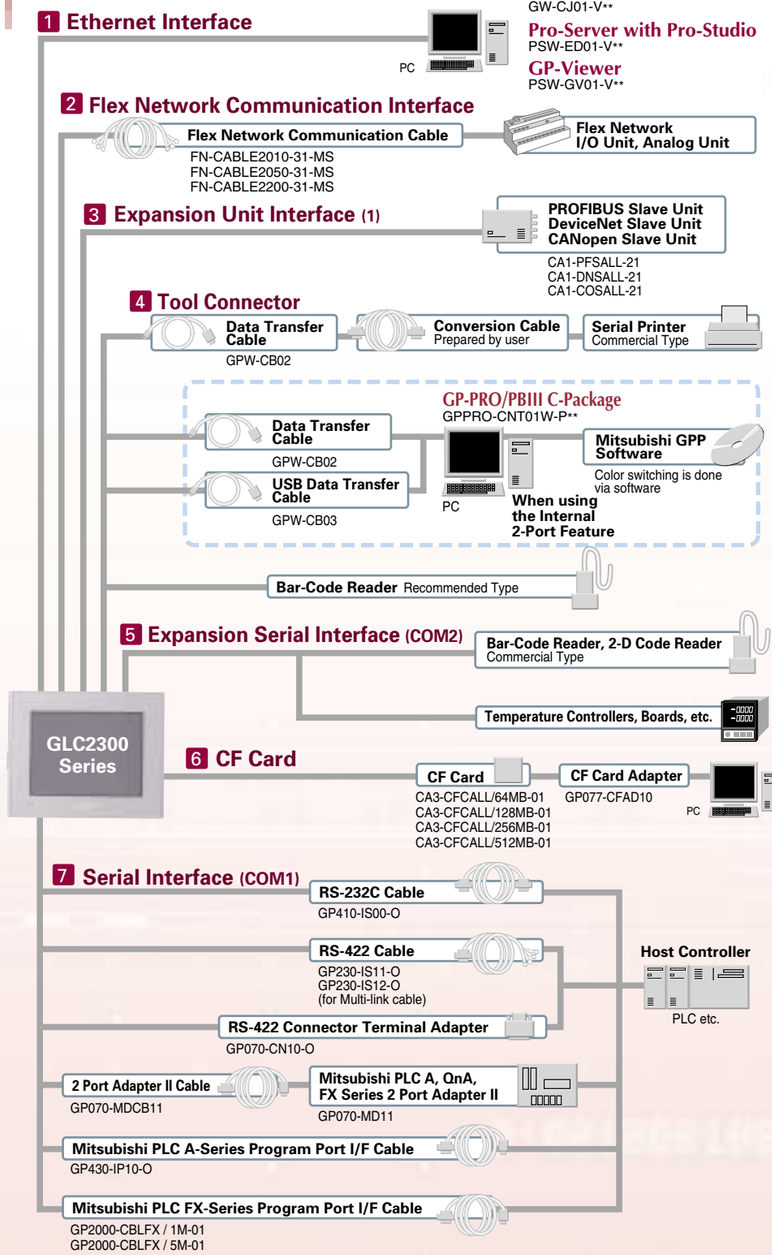
GLC 2300 Series

The mid-size 5.7-inch models with network connectivity.

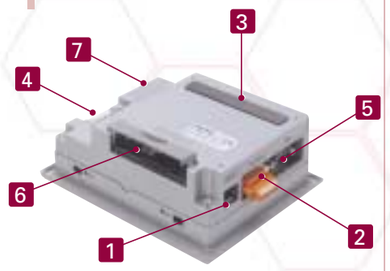
GLC2300T

GLC2300L

SYSTEM DESIGN

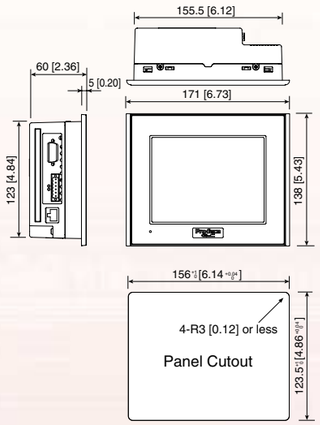


INTERFACES



EXTERNAL DIMENSIONS

Unit: mm [in.]



FUNCTIONAL SPECIFICATIONS

Model		GLC2300-TC41-24V	GLC2300-LG41-24V
Display Type		TFT Color LCD	Monochrome LCD
Display Colors		256 colors, No blink/64 colors, 3-speed blink (Color switching is done via software)*1	Black and White, 2 levels of gray/Black and White, 8 levels of gray*2 (Color switching is done via software)
Backlight		CCFL (Service life: 50,000 hrs. or more at 25°C and 24 hrs. operation) Not user replaceable	CCFL (Service life: 50,000 hrs. or more at 25°C and 24 hrs. operation) User replaceable
Display Resolution		320 x 240 pixels	
Effective Display Area		W115.2mm [4.54in.] x H86.4mm [3.40in.]	
Brightness Control		4 levels of adjustment available via touch panel	
Contrast Adjustment		–	8 levels of adjustment available via touch panel
Language Fonts		ASCII: (Code page 850) Alphanumeric (including European characters) Chinese: (GB2312-80 codes) simplified Chinese fonts Japanese: ANK 158, Kanji: 6962 (JIS Standards 1 and 2) Korean: (KSC5601-1992 codes) Hangul fonts Taiwanese: (Big 5 codes) traditional Chinese fonts	
Text	8 x 8 dots	40 Char. x 30 rows	
	8 x 16 dots	40 Char. x 15 rows	
	16 x 16 dots	20 Char. x 15 rows	
	32 x 32 dots	10 Char. x 7 rows	
Character Sizes*3		8 x 8 dot font, 8 x 16 dot font, 16 x 16 dot font, 32 x 32 dot font	
Font Sizes		Width: 1~8 times expandable / Height: 1/2*4, 1~8 times expandable	
Touch Panel Resolution		16 x 12 keys / screen - 1 or 2 point touch	
Control Memory*5	Application	2MB FLASH FEPROM (Approx. 640 screens at 3.2KB / screen)	
	Data Backup	256KB SRAM - uses a lithium battery*6	
	Program Area	128KB FLASH EPROM	
	Variable Area	64KB SRAM - uses a lithium battery*6	
Serial Interface (COM1)		Asynchronous Transmission : RS-232C/RS-422 Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400bps to 115.2kbps (MPI: 187.5kbps)*7	
Expansion Serial Interface (COM2)		Asynchronous Transmission : RS-232C Data Length : 7 or 8 bits Stop Bit : 1 or 2 bits Parity : None, Odd or Even Data Transmission Speed : 2,400 bps to 38.4kbps	
Ethernet Interface		IEEE802.3 10BASE-T	
Tool Connector Interface		Asynchronous TTL level nonprocedural command I/F <During screen file development> Used for transferring data to and from the GLC application software and the GLC. Used for data transfer with the 2-Port feature. <During Logic Program Development> Used for transferring data to and from the Logic Program Development software and the GLC. <During RUN Mode> Used for a variety of devices, such as bar-code readers and serial printers.	
CF Card Interface		1 slot (CompactFlash™)	
Expansion CF Card Interface		–	
Printer Interface		–*8	
External Reset Input I/F		–	
Flex Network	Communication Style	1: N	
	Connection Format	Multi Drop Connection	
	Communication Range	200m/CH at 6Mbps, 100m/CH at 12Mbps	
	Communication Format	Cyclic Data Transfer, Half-duplex	
	Communication Speed	6Mbps, 12Mbps	
	Communication I/F	Differential method, Pulse Transformer Insulation method	
	Error Check	Format Test, Bit Test, CRC-12 Test	
	Max. Number of Nodes	63 (1008 I/O points)	
Sound Output		–	

*1 Changing the colors setting to "256 colors" will disable the blink feature on all screens in your project. If you wish to use the blink feature, do not change this setting to "256 colors".

*2 In order to set the monochrome (eight levels of gray) mode, GP-PRO/PB III for Windows Ver.6.2 or later is required. Depending on the color used, selecting MONOCHROME 8 HUES may cause the GLC unit's screen to flicker and make it difficult to distinguish colors. Confirm that all colors display as expected prior to using this mode.

*3 The font size varies depending on the selected language and expansion ratio.

*4 Only available when using "1/2 2 Byte Character" settings via software. (Only Japanese, Chinese, Taiwanese, and Korean characters)

*5 128 KB of SRAM is reserved for the Online Editor.

*6 A Lithium battery's lifetime is :
- 10 years when the battery's ambient temperature is 40°C or less.
- 4.1 years when the battery's ambient temperature is 50°C or less.
- 1.5 years when the battery's ambient temperature is 60°C or less.

When used for backup :
- Approximately 60 days, with a fully charged battery.
- Approximately 6 days, with a half-charged battery.

*7 SIEMENS SIMATIC S7-200/300/400 series (MPI port only). Please contact your Pro-face sales representative for supported models and other details.

*8 GLC2300T/L supports serial printers.

GENERAL SPECIFICATIONS

Model		GLC2300-TC41-24V	GLC2300-LG41-24V
Electrical	Rated Voltage	DC24V	
	Rated Voltage Range	DC19.2V to DC28.8V	
	Power Consumption	22W or less	
	Allowable Voltage Drop	10ms or less	
	Voltage Endurance	AC1000V 20mA for 1 minute (between charging and FG terminals)	
	Insulation Resistance	20MΩ or higher at DC500V (between charging and FG terminals)	
Environmental	Ambient Operating Temperature	0°C to +50°C*1	
	Storage Temperature	-20°C to +60°C	
	Operating Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)	
	Storage Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)	
	Vibration Resistance	IEC61131-2 (JIS B 3501) compliant When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s² When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s², 10 times (80min.) for each (X, Y, Z) direction	
	Noise Immunity (via noise simulator)	Noise Voltage: 1000Vp-p, Pulse Duration:1 µs Arise Time: 1ns	
	Electrostatic Discharge Immunity	Contact Discharge Method 6kV (complies with IEC 61000-4-2 Level 3)	
	Air Purity (Dust)	0.1mg/m³ or less (non-conductive levels)	
	Atmospheric Endurance	800hPa to 1,114hPa (2,000 meters or lower)	
	Corrosive Gasses	Free of corrosive gases	
Structural	Grounding	100Ω or less, or your country's applicable standard*2	
	Ratings	Equivalent to IP65f (JEM1030)*3, and NEMA TYPE#250 4 X/12 (limited to the front face after installation in a panel)	
	Certifications	EN55022 Class A, EN50082-2, UL1604, UL60950	
	External Dimensions	W171mm [6.73in.] x H138mm [5.43in.] x D60mm [2.36in.]	
	Weight	1.2kg (2.65lb) or less (main unit only)	
	Cooling Method	Natural air circulation	

*1 Operating temperature refers to the panel external (GLC unit front face) and panel internal temperatures.

*2 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation. For more information, please contact your GLC distributor.

*3 The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment. Be sure to confirm your work environment requirements prior to installation.

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

System Design

Ethernet

SIO Expansion Unit I/F

Flex Network

INFORMATION
Data Collection and Distribution

Information flows smoothly to and from the host PC via CF card or Ethernet, forming a highly reliable system for process control or data collection and providing reliable, assured support for management strategy building.

Secured and real-time data exchange with commonly used PC applications over CF card, Ethernet or the Internet.

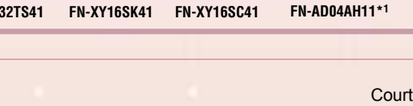
Web Operation Software
GP-Web
GW-CJ01-V**

Data Collection Software
Pro-Server
with Pro-Studio
PSW-ED01-V**

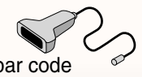
COMMUNICATION
Useful Interfaces to Meet Your Needs

Versatile interfaces support flexible expansion for a control system that meets your needs.

SIO 1ch (COM1)
To connect various controllers



SIO 2ch (COM2)
Serial devices, such as bar code readers or two-dimensional code readers.



Expansion Unit Interface
Fieldbus slave connection*

■ PROFIBUS ■ CANopen ■ DeviceNet

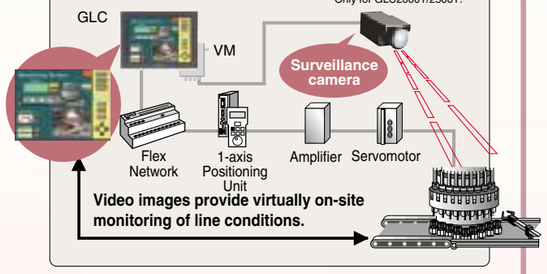
* Only available from Pro-Face Europe B.V.. For further information, please contact Pro-face Europe B.V..

The Video-mix Unit enables more realistic monitoring and control

Adding the Video-mix Unit enables high-precision line surveillance and control over a single screen. Remote operation and monitoring ensures trouble free line control. Plus, the expandability of the GLC2600T/2500T with the 3-way control opens up a wealth of new production possibilities.

System example... **Precision equipment field, semiconductor inspection line**

*Only for GLC2600T/2500T.



CONTROL
Distributed I/O Terminals for up to 1008 Points

The remote I/O system contributes to more reliable, high-speed control, cutting wiring costs and labor.

Remote I/O (Flex Network) System

*For details of Flex Network, contact your local sales representative.

64-point I/O Unit

32-point Sink/Source Input, 32-point Sink-type Transistor Output
FN-XY32SKS41
(Spring Clamp Connector)

32-point I/O Units

32-point Sink/Source Input	16-point Sink/Source Input, 16-point Sink Transistor Output	16-point Sink/Source Input, 16-point Source Transistor Output
FN-X32TS41	FN-XY16SK41	FN-XY16SC41

16-point I/O Units

16-point Sink/Source Input	8-point Sink/Source Input, 8-point Sink Transistor Output	16-point Sink Output	16-point Source Output
FN-X16TS41	FN-XY08TS41	FN-Y16SK41	FN-Y16SC41

8-point I/O Unit

8-point Relay Output/1 Common
FN-Y08RL41

High-spec Units

4-channel Analog Input Unit	4-channel Analog Output Unit	High-speed Counter Unit	Single-axis Positioning Unit
FN-AD04AH11*1	FN-DA04AH11*1	FN-HC10SK41	FN-PC10SK41 (Teaching Loader FN-PC10LD41)

*1 4-channel Analog Input / Output Units are not CE marked, UL/c-UL (CSA) listed products.

Software

EASY SCREEN CREATION & LOGIC PROGRAM DEVELOPMENT

Screen Editor and Logic Program Development Software

GP-PRO/PBIII -C- Package 03

GPPRO-CNT01W-P03

The GP-PRO/PBIII C-Package combines screen creation and logic programming capabilities into one handy package. Using the simple "settings navigator," even beginners can create easy-to-use operating environments.

EASY SCREEN CREATION

Time Scheduling

This function makes it easier to set up devices and handle routine tasks.

Bit On/Off and word setting can be scheduled by day of the week or for a specific time. The weekly and time setting can also be changed on the display device.

Security Level Function

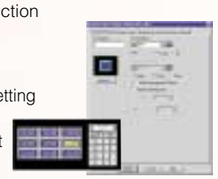
Restrict user access depending by operator level.

Use the 15-level password protection function to restrict access to specific screens, such as management and maintenance screens. This protection function helps to improve screen security, which also means greater safety for machines that are unattended or installed off-site.

Improved Keypad Display Function

We expanded the setting parameter display function for more efficient on-screen input.

- Touch input for input mode activation.
- A sequence designation function for inputting multiple items (with the group function).
- Designation of the change notification bit for individual setting parameter displays.
- A more flexible arrangement for the popup keyboard.



Text Screen's Multi-language Function

The text screen now supports multiple languages. A and X tags can be used to display different languages.

Improved Editing

Expanded Alarm Summary Display Function Using Q Tags

LOGIC PROGRAM

Supports Ladder Monitor

Current values and set values can be changed from the display screen.

Additionally, because the current values/set values can be altered not only from the ladder monitor but also the display screen, the contact point's ON/OFF and timer/counter's tuning can be performed even if a computer is not available.

Add New Instructions

15 kinds of ladder instructions, such as arithmetic functions, have been added. This makes developing programs much easier.

*Supported by GLC2000 series only (except for GLC2400/2600's old revisions.)

Command Extensions	Type
SUM	Sum (Returns total value of input array)
AVE	Average (Returns average value of input array)
RCL	Left Rotation with Carry
RCR	Right Rotation with Carry
SAL	Arithmetic Shift Left
SAR	Arithmetic Shift Right
BCNT	Bit Count
ASIN	Arc Sine
ACOS	Arc Cosine
ATAN	Arc Tangent
COT	Cotangent
EXP	Exponent e(x)->y
LN	Natural Logarithm Loge(x)->y
DEG	Degree Conversion (Radians→Degrees)
SQRT	Square Root
RAD	Radian Conversion (Degrees→Radians)

More Convenient to Operate

Inserted commands and variables are graphically displayed, making ladder programming mistakes easy to avoid.

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

Ladder Logic Instruction List

Class	Type	Inst.	Symbol
Bit Manipulation	Normally Open	NO	⊣ ⊢
	Normally Closed	NC	⊣/⊢
	Positive Transition	PT	⊣P⊢
	Negative Transition	NT	⊣N⊢
	Output Coil	OUT	⊣◯⊢
	Retention Coil	M	⊣Ⓜ⊢
	Negated Coil	NEG	⊣⊘⊢
	Negated Retention Coil	NM	⊣/Ⓜ⊢
	Unlatch Coil	RST	⊣Ⓡ⊢
	Unlatch Retention Coil	RM	⊣ⓇⓂ⊢
	Latch Coil	SET	⊣Ⓢ⊢
	Latch Retention Coil	SM	⊣ⓈⓂ⊢
Logic Operation	Logical Multiply	AND	AND EN DN A C B
	Bit Negation	NOT	NOT EN DN A C
	Logical Add	OR	OR EN DN A C B
	Exclusive Logical Add	XOR	XOR EN DN A C B
Movement Instructions	Block Move	BMOV	BMOV EN DN A E B C D
	File Move	FMOV	FMOV EN DN A D B C
	Move	MOV	MOV EN DN IN OUT
	Sum	SUM *1	SUM EN DN A D B C
	Average	AVE *1	AVE EN DN A D B C
	Bit count	BCNT *1	BCNT EN DN A B

Class	Type	Inst.	Symbol
Shift Instructions	Rotate Left	ROL	ROL EN DN A C N
	Rotate Right	ROR	ROR EN DN A C N
	Shift Left	SHL	SHL EN DN A C N
	Shift Right	SHR	SHR EN DN A C N
	Left Rotation with Carry	RCL *1	RCL EN DN A D N C
	Right Rotation with Carry	RCR *1	RCR EN DN A D N C
	Arithmetic Shift Left	SAL *1	SAL EN DN A C N
	Arithmetic Shift Right	SAR *1	SAR EN DN A C N
Mathematical Instructions	Add	ADD	ADD EN DN A C B
	Subtract	SUB	SUB EN DN A C B
	Multiply	MUL	MUL EN DN A C B
	Divide	DIV	DIV EN DN A C B
	Residual Processing	MOD	MOD EN DN A C B
	Decrement	DEC	DEC EN DN A
	Increment	INC	INC EN DN A
	Square root	SQRT *1	SQRT EN DN A B

Class	Type	Inst.	Symbol
Comparison Instructions	Equal To (=)	EQ	EQ EN Q A B
	Greater Than (>)	GT	GT EN Q A C B
	Greater or Equal To (>=)	GE	GE EN Q A B
	Less Than (<)	LT	LT EN Q A B
	Less or Equal To (<=)	LE	LE EN Q A B
	Not Equal (<>)	NE	NE EN Q A B
Special Instructions*1*2	PID Calculation	PID	PID EN DN SP CV PV TB
Timer/Counter Instructions	Timer On-Delay	TON	TON IN Q PT ET
	Timer Off-Delay	TOF	TOF IN Q PT ET
	Timer Pulse	TP	TP IN Q PT ET
	Counter Up	CTU	CTU CE Q R PV CV
	Counter Down	CTD	CTD CE Q R PV CV
	Counter Up Down	CTUD	CTUD CE Q UP QU R QD PV CV
Convert Instructions	BCD Conversion	BCD	BCD EN DN A B
	Encode*3	ENCO	ENCO EN DN A B
	Decode*3	DECO	DECO EN DN A B

Class	Type	Inst.	Symbol
Convert Instructions	Binary Conversion	BIN	BIN EN DN A B
	Degree Conversion (Radian → Degree)	DEG *1	DEG EN DN A B
	Radian Conversion (Degrees → Radians)	RAD	RAD EN DN A B
Function Control Instructions	Sine Function	SIN	SIN EN DN A B
	Cosine Function	COS	COS EN DN A B
	Tangent Function	TAN	TAN EN DN A B
	Arc Sine	ASIN *1	ASIN EN DN A B
	Arc Cosine	ACOS *1	ACOS EN DN A B
	Arc Tangent	ATAN *1	ATAN EN DN A B
	Cotangent	COT *1	COT EN DN A B
	Exponent	EXP *1	EXP EN DN A B
	Natural Logarithm	LN *1	LN EN DN A B
Program Control Instructions	Jump	JMP	->>LabelName
	Jump to Subroutine	JSR	->>SubroutineName<<-
	Return from Subroutine	RET	-<RETURN>-
	Repeat*3	FOR	FOR EN DN A
		NEXT	NEXT

*1 GLC2600/2400 Models with revisions prior to number 1 are 32 KB.
*2 A maximum of 100 special instructions can be used within a project.
*3 These new instructions will be provided on GP-PRO/PBIII C Package03.

Connectable Controllers

All equipment in these lists has been tested with the GP-PRO/PBIII C-Package03 software (as of February 2004).

PLCs

FANUC

Series Name	CPU	Direct	JPCN-1
FANUC Series	16-MODEL C	●	●
	18-MODEL C	●	
	16i-MODEL A	●	
	16i-MODEL B	●	
	18i-MODEL A	●	
	18i-MODEL B	●	
	21i-MODEL A	●	
	21i-MODEL B	●	
FANUC Power Mate (Motion Controller)	Power Mate	●	

FATEK

Series Name	CPU	Link	Direct
Facon FB	FBe-20MC	●	●
	FBe-28MC	●	●
	FBe-40MC	●	●

Fuji Electric

Series Name	CPU	Link	Direct	T-Link	JPCN-1
MICREX-F	F30	●		●	
	F50	●		●	
	F60	●		●	
	F70S	●		●	
	F80	●		●	
	F80H	●	●	●	
	F81	●		●	
	F120	●		●	
	F120H	●		●	
	F120S	●		●	
	F200	●		●	
	F250	●	●	●	
FLEX-PC	NB1	●	●		
	NB2	●	●		
	NB3	●	●		
	NJ	●	●		●
	NS	●	●		

GE FANUC Automation

Series Name	CPU	Link	Direct
Series90-30	CPU311	●	●
	CPU331	●	●
	CPU360/363/364		●
	CPU313/323		●
	CPU340/341		●
	CPU350/351/352		●
	CSE311/313		●
	CSE323/331/340		●
Series90-70	CPU731/732	●	●
	CPU771/772	●	●
	CPU780/781/782	●	●
	CPU788/789		●
	CPM915/925		●
	CPX935		●
	CGR935		●
	CPM790		●
	CSE784		●
	CSE924/925		●
	CPX772/782		●
	CPX928		●
	CGR772		●

Hitachi

Series Name	CPU	Link	Direct	Multi-Link	DeviceNet	Ethernet	JPCN-1
HIDIC-S10α	2α(LWP000)	●					●
	2αE(LWP040)	●					●
	2αH(LWP070)	●					●
	4α	●					
	4αF	●					
	2αHf(LWP075)						●
HIZAC EC	EC-40HR		●				
S10mini	LQP000	●		●			
	LQP010	●		●			
	LQP011	●		●			
	LQP120	●					
	LQP800	●					
S10V	LQP510	●			●		●

Hitachi Industrial Equipment Systems

Series Name	CPU	Link	Direct	Multi-Link	DeviceNet	Ethernet	JPCN-1
HIDIC-H	H20		●				
	H28		●				
	H40		●				
	H64		●				
	H-200		●				
	H-252C		●				
	H-300	●	●				
	H-302	●	●	●		●	
	H-700	●	●				
	H-702	●	●	●		●	
	H-1002					●	
	H-2000	●	●	●			
	H-2002	●	●	●		●	
	H4010	●	●	●		●	
	EH-150	●	●	● (EH-CPU448)			
	MICRO-EH		●	●			

Idec Izumi

Series Name	CPU	Link	Direct
FA-2	PF2-CPU1		●
	PF2-CPU5M		●
FA-2J	PF2J-CPU1		●
FA-3S	PF3S-CP11		●
	PF3S-CP12	●	●

Idec Izumi

Series Name	CPU	Link	Direct
FA-3S	PF3S-CP13	●	●
MICRO^3	MICRO^3		●
MICROSmart FC4A (All-in-One Type)	FC4A-C10R2B	●	
	FC4A-C16R2B	●	
	FC4A-C24R2B	●	
MICROSmart FC4A (Slim Type)	FC4A-D20K3	●	
	FC4A-D20S3	●	
	FC4A-D20RK1	●	
	FC4A-D20RS1	●	
	FC4A-D40K3	●	
	FC4A-D40S3	●	
OpenNet Controller FC3	FC3A-CP2K	●	
	FC3A-CP2S	●	

KEYENCE

Series Name	CPU	Link	Direct	Multi-Link
KZ-300	KZ-300	●		●
	KZ-350	●		●
KZ-A500	KZ-A500	●	●	
KV (Visual KV)	KV-10A□,KV-10D□		●	
	KV-16A□,KV-16D□		●	
	KV-24A□,KV-24D□		●	
	KV-40A□,KV-40D□		●	
KV	KV-10RW,KV-10T2W		●	
	KV-16RW,KV-16T2W		●	
	KV-24RW,KV-24T2W		●	
	KV-40RW,KV-40T2W		●	
	KV-80RW,KV-80TW		●	
KV-700	KV-700	●*1	●	●*1

*1 The KV-700 uses the KZ-300 and KZ-A500 protocol.
The multilink configuration uses KZ-300 protocol.

Koyo Electronics Industries

Series Name	CPU	Link
KOSTAC SG	SG-8	●
KOSTAC SU	SU-5	●
	SU-6	●
	SU-6B	●
KOSTAC SZ	SZ-4	●
KOSTAC SR	SR-21	●
	SR-22	●
DL-205	D2-240	●
DL-305	D3-330	●
DL-405	D4-430	●
	D4-440	●
DL05	D0-05AA	●
	D0-05AD	●
	D0-05AR	●
	D0-05DA	●
	D0-05DD	●
	D0-05DD-D	●
	D0-05DR	●
	D0-05DR-D	●

Matsushita Electric

Series Name	CPU	Link
Panadac 7000	P7000-PLC-001	●
	P7000-PLC-031H	●
	P7000-PLC-031S	●
	P7000-PLC-A01	●

Matsushita Electric Works/NAiS

Series Name	CPU	Link	Direct	Multi-Link
MEWNET	FP2	●		
	FP3	●		
	FP5	●		
	FP10(S)	●		●
	FP1	●	●	
	FP-M	●	●	
	FP10SH	●		●
	FP0	●	●	
	FP2-C2	●	●	
	FP2-C2P	●	●	
	FP2-C3P	●	●	
FPΣ Control Unit	FPG-C32T	●	●	
	FPG-C32T2	●	●	
	FPG-C24R2	●	●	

Meidensha

Series Name	CPU	Ethernet
UNISEQUE	RC100	●
	ADC4000	●
	ADC7000	●

Mitsubishi Electric

Series Name	CPU	Link	Direct	1:n	Multi-Link	MELSEC-Net/IO	Ethernet	CC-Link	JPCN-1
MELSEC-A	AOJ2	●			●				
	AOJ2H	●	●		●			●	
	A1N	●	●		●	●		●	
	A1S	●	●		●	●		●	
	A1SH	●	●		●	●		●	
	A1SJ	●	●		●	●		●	
	A1SJH					●		●	
	A1SCPUC24-R2					●		●	
	A2A	●	●		●	●	●	●	●
	A2A-S1					●		●	

Mitsubishi Electric

Series Name	CPU	Link	Direct	1:n	Multi-Link	MELSEC-Net/10	Ethernet	CC-Link	JPCN-1
MELSEC-A	A2CCPUC24	●	●		●				
	A2CJ-S3		●						
	A2N	●	●			●	●	●	●
	A2N-S1					●		●	
	A2S					●		●	
	A2SH	●	●		●	●		●	
	A2U	●			●	●		●	
	A2U-S1		●			●	●	●	●
	A2US	●	●		●	●	●	●	
	A2US-S1		●			●		●	
	A2USH-S1	●	●		●	●		●	
	A3A	●	●		●	●	●	●	●
	A3H		●			●		●	
	A3N	●	●		●	●		●	
	A3U	●	●			●		●	
	A4U	●	●		●	●		●	
MELSEC-F$_2$	F$_2$-20M	●							
	F$_2$-40M	●							
	F$_2$-60M	●							
MELSEC-FX	A1FX		●						
	FX$_0$		●						
	FX$_{0S}$		●						
	FX$_{0N}$		●						
	FX$_1$		●						
	FX$_{1S}$		●						
	FX$_{1N}$	●	●						
	FX$_{1NC}$	●	●	●					
	FX$_2$		●	●					
	FX$_{2C}$		●						
	FX$_{2N}$	●	●		●				
	FX$_{2NC}$	●	●	●					
MELSEC-QnA	Q2A	●	●	●	●	●	●	●	
	Q2A-S1	●			●	●	●	●	
	Q2AS	●	●		●	●	●	●	
	Q2ASH	●				●	●	●	
	Q2AS-S1	●	●		●	●	●		
	Q3A					●	●	●	
	Q4A	●	●		●	●	●	●	
	Q4AR	●	●		●			●	
MELSEC-Q	Q00CPU	●	●		●	●	●	●	
	Q00JCPU	●			●	●	●	●	
	Q01CPU	●	●		●	●	●	●	
	Q02CPU	●	●		●	●	●	●	
	Q02CPU-A	●	●		●			●	
	Q02HCPU	●	●		●	●	●	●	
	Q02HCPU-A	●	●		●			●	
	Q06HCPU	●	●		●	●	●	●	
	Q06HCPU-A	●	●		●			●	
	Q12HCPU	●	●		●	●	●	●	
	Q25HCPU	●	●		●	●	●	●	

* MELSECNET/10 is supported only between the PC.

Modicon

Series Name	CPU	Direct	Modbus (n:m)
Modbus Master*1	–	●*2	
884/984	884	●	●
	984A/984B	●	●

*1 The GLC becomes a slave. *2 The connection port varies depending on the model.

OMRON

Series Name	CPU	Link	Direct	1:n	Multi-Link	Device-Net	Ethernet
SYSMAC C	C20H	●					
	C28H	●					
	C40H	●					
	C120	●			●		
	C120F	●			●		
	C200H	●			●		
	C200HS	●	●		●		
	C500	●			●		
	C500F	●			●		
	C1000H	●			●		
	C1000HF	●			●		
	C2000	●			●		
	C2000H	●			●		
	CQM1-CPU11		●				
	CQM1-CPU42	●	●				
	CQM1H-CPU21		●				
	CQM1H-CPU51	●	●	●			
	CQM1H-CPU61	●	●	●			
	CPM1-20CDR-A	●	●		●		
	CPM2A	●	●		●		
	CPM2C	●	●				
	SRM1-C02	●	●		●		
SYSMAC α	C200HE-CPU42	●			●		
	C200HE-CPU42-Z	●					
	C200HG-CPU43	●			●		
	C200HG-CPU63	●					
	C200HX-CPU44	●					
	C200HX-CPU64	●			●		
	C200HX-CPU64-Z	●			●		
	C200HX-CPU85-Z	●					
SYSMAC CV	CV500	●			●		
	CV1000	●			●		
	CVM1	●			●		
SYSMAC CS1	CS1G-CPU42	●	●		●	●	●
	CS1G-CPU43	●	●		●	●	●
	CS1G-CPU44	●	●		●	●	●
	CS1G-CPU45	●	●		●	●	●
	CS1H-CPU63	●	●		●	●	●

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OMRON

Series Name	CPU	Link	Direct	1:n	Multi-Link	Device-Net	Ethernet
SYSMAC CS1	CS1H-CPU64	●	●		●	●	●
	CS1H-CPU65	●	●		●	●	●
	CS1H-CPU66	●	●		●	●	●
	CS1H-CPU67	●	●		●	●	●
	CS1G-CPU42H	●	●		●	●	●
	CS1G-CPU43H	●	●		●	●	●
	CS1G-CPU44H	●	●		●	●	●
	CS1G-CPU45H	●	●		●	●	●
	CS1H-CPU63H	●	●		●	●	●
	CS1H-CPU64H	●	●		●	●	●
	CS1H-CPU65H	●	●		●	●	●
	CS1H-CPU66H	●	●		●	●	●
	CS1H-CPU67H	●	●		●	●	●
SYSMAC CJ	CJ1G-CPU44	●	●		●	●	●
	CJ1G-CPU45	●	●		●	●	●
	CJ1G-CPU42H	●	●		●	●	●
	CJ1G-CPU43H	●	●		●	●	●
	CJ1G-CPU44H	●	●		●	●	●
	CJ1G-CPU45H	●	●		●	●	●
SYSMAC CJ1M	CJ1M-CPU12	●	●		●	●	●
	CJ1M-CPU13	●	●		●	●	●
	CJ1M-CPU22	●	●		●	●	●
	CJ1M-CPU23	●	●		●	●	●

ORIMVEXTA

Series Name	CPU	Link
E1	CPU11	●

Rockwell (Allen-Bradley)

Series Name	CPU	Link	Direct	Multi-Link	Device-Net	DH+	DH 485	Remote I/O	Ethernet
SLC500	SLC-5/01						●		
	SLC-5/02						●		
	SLC-5/03	●		●			●		
	SLC-5/04	●		●	●	●	●		
	SLC-5/05								●
PLC-5	PLC-5 Series	●						●	
	PLC-5/11	●	●						
	PLC-5/20	●	●		●	●			
	PLC-5/30	●	●						
	PLC-5/40	●	●						
	PLC-5/40L	●	●						
	PLC-5/60	●	●						
	PLC-5/60L	●	●						
Control Logix 5000	1756-L1		●		●				●
	1756-L1M1		●		●				●
	1756-L1M2		●		●				●
	1756-L1M3		●		●				●
	1756-L55M13		●		●				●
	1756-L55M14		●		●				●
	1756-L55M16		●		●				●
MicroLogix1000	1761-L16AWA	●	●	●			●		
	1761-L32AWA	●	●	●			●		
	1761-L20AWA-5A	●	●	●			●		
	1761-L10BWA	●	●	●			●		
	1761-L16BWA	●	●	●			●		
	1761-L20BWA-5A	●	●	●			●		
	1761-L32BWA	●	●	●			●		
	1761-L10BWB	●	●	●			●		
	1761-L16BWB	●	●	●			●		
	1761-L20BWB-5A	●	●	●			●		
	1761-L32BWB	●	●	●			●		
	1761-L16BBB	●	●	●			●		
	1761-L32BBB	●	●	●			●		
	1761-L32AAA	●	●	●			●		
MicroLogix1200	1762-L24AWA	●	●	●			●		
	1762-L24BWA	●	●	●			●		
	1762-L24BXB	●	●	●			●		
	1762-L40AWA	●	●	●			●		
	1762-L40BWA	●	●	●			●		
	1762-L40BXB	●	●	●			●		
MicroLogix1500	1764-LSP	●	●	●	●		●		
	1764-LRP	●	●	●	●				
CompactLogix	1769-L35E								●

Schneider Electric

Series Name	CPU	Modbus RTU	Modbus TCP	Uni-Telway
Nano	TSX 07 30 10□□	●		●
	TSX 07 31 16□□	●		●
	TSX 07 31 24□□	●		●
	TSX 07 32 □□28			●
	TSX 07 33 □□28			●
	TSX 07 3L □□28			●
Micro	TSX 37 05 028DR1	●		●
	TSX 37 08 056DR1	●		●
	TSX 37 10 128DT1	●		●
	TSX 37 10 128DR1	●		●
	TSX 37 10 128DTK1	●		●
	TSX 37 10 164DTK1	●		●
	TSX 37 10 028AR1	●		●
	TSX 37 10 028DR1	●		●
	TSX 37 21 101	●		●
	TSX 37 22 101	●		●
	TSX 37 21 001	●		●
	TSX 37 22 001	●		●

Schneider Electric

Series Name	CPU	Modbus RTU	Modbus TCP	Uni-Telway
Premium	TSX P57 103M	●	●	●
	TSX P57 153M	●	●	●
	TSX P57 203M	●	●	●
	TSX P57 253M	●	●	●
	TSX P57 303M	●	●	●
	TSX P57 353M	●	●	●
	TSX P57 453M	●	●	●
Twido	TWD LCAA 10DRF	●		
	TWD LCAA 16DRF	●		
	TWD LCAA 24DRF	●		
	TWD LMDA 20DTK	●		
	TWD LMDA 20DUK	●		
	TWD LMDA 20DRT	●		
	TWD LMDA 40DTK	●		
	TWD LMDA 40DUK	●		
Quantum	140 CPU 113 02	●	●	
	140 CPU 113 03	●	●	
	140 CPU 413 12A	●	●	
	140 CPU 543 14A	●	●	
Momentum	171 CCS 700 00	●		
	171 CCS 700 10	●		
	171 CCS 760 00	●		
	171 CCC 760 10	●		
	171 CCS 780 00	●		
	171 CCC 780 10	●		
	171 CCC 960 20/30	●		
	171 CCC 980 20/30	●		

Sharp

Series Name	CPU	Link	Multi-Link
New Satellite JW	JW20	●	
	JW-32CUH	●	
	JW-32CUH1	●	
	JW-33CUH3	●	●
	JW50	●	
	JW70	●	
	JW100	●	

Shinko Electric

Series Name	CPU	Link
SELMART	SELMART	●

SIEMENS

Series Name	CPU	Link	Direct	Profibus	MPI	INTERBUS	Ethernet
SIMATIC-S5	S5 90U	●	●				
	S5 95U	●	●				
	S5 100U	●	●				
	S5 115U	●	●				
	S5 135U	●	●				
	S5 155U	●	●				
SIMATIC S7-200	CPU212		●				
	CPU214		●		●		
	CPU215		●		●		
	CPU216		●		●		
	CPU221		●		●		
	CPU222		●		●		
	CPU224		●		●		
	CPU226		●		●		
SIMATIC S7-300	CPU312IFM		●		●		●
	CPU313	●	●		●		●
	CPU314	●	●		●		●
	CPU314IFM				●		●
	CPU315	●	●		●		●
	CPU315-2DP	●	●		●		●
	CPU316				●		●
	CPU316-2DP				●		●
	CPU318-2				●		●
SIMATIC S7-400	CPU412-1				●		●
	CPU412-2DP				●		●
	CPU413-1				●		●
	CPU413-2DP	●	●		●		●
	CPU414-1				●		●
	CPU414-2DP				●		●
	CPU414-3DP				●		●
	CPU416-1				●		●
	CPU416-2DP				●		●
	CPU416-3DP				●		●
	CPU417-4				●		●
SIMATIC 505	SIMATIC545-1101	●					
	SIMATIC545-1102	●					
	SIMATIC545-1103	●					
	SIMATIC545-1104	●					
	SIMATIC545-1105	●					
	SIMATIC545-1106	●					
	SIMATIC555-1101	●					
	SIMATIC555-1102	●					
	SIMATIC555-1103	●					
	SIMATIC555-1104	●					
	SIMATIC555-1105	●					
	SIMATIC555-1106	●					

Toshiba

Series Name	CPU	Link	Multi-Link	Ethernet
PROSEC EX	EX2000	●		
PROSEC T	T3	●	●	
	T3H	●		●

Toshiba

Series Name	CPU	Link	Multi-Link	1:n
PROSEC T	T2N	●		●
	T2E	●		
PROVISOR B	B200CH	●		
	B200CUF	●		
	B200CURM	●		
	B200CUFRM	●		
V Series	S2PU22A	●	●	
	S2PU32A	●	●	
	S2PU72A	●	●	●
	S2PU72D	●	●	●
	S3PU45A	●	●	●
	S3PU55A	●	●	●
	S3PU65A	●	●	●

Toshiba Machine

Series Name	CPU	Link
PROVISOR TC200	TCCUH	●
	TCCUHS	●
	TCCUSS	●

Toyoda Machine Works

Series Name	CPU	Link	1:n
TOYOPUC-PC2	PC2	●	
	L2	●	
	PC2J	●	●
TOYOPUC-PC3	PC3J	●	●

Yaskawa Electric

Series Name	CPU	Link	Direct	Multi-Link	Ethernet
Memocon-SC	U84	●			
	U84J	●			
	U84S	●			
	GL40S	●			
	GL60S	●			
	GL60H	●			
	GL70H	●			
	GL120	●	●	●	
	GL130	●		●	
Control Pack	CP-9200		●		
	CP-9200H		●		
	CP-9200SH	●			
Memocon Micro	Micro		●		
PROGIC-8	PROGIC-8	●			
MP900	MP920	●	●		●
	MP930	●	●		
MP2000	MP2300	●			●

Yokogawa

Series Name	CPU	Link	Direct	1:n	Multi-Link	n:m	Ethernet	Device-Net
FACTORY ACE	FA500	●		●				
	FA-M3	●	●	●	●	●	●	●
STARDOM	FCN		●					
	FCJ		●					

Ubon

Series Name	CPU	Link
UPZ	UPZ3-16ND1-16TD1	●
	UPZ3-M	●
	UPZ3-T	●

Inverters

Fuji Electric

Series Name	Inverters	1:n
FREN/CS5000G11S	FRN□□G11S-2	●
	FRN□□G11S-4	●
FREN/CS5000P11S	FRN□□P11S-2	●
	FRN□□P11S-4	●
FVR-E11S	FVR□□□E11S-2	●
	FVR□□□E11S-7	●
FVR-C11S	FVR□□□C11S-2	●
	FVR□□□C11S-6	●
	FVR□□□C11S-7	●

Hitachi Industrial Equipment Systems

Series Name	Inverters	1:n
SJ300	SJ300-□□□■□F■*1	●
L300P	L300P-□□□■□F■*1	●

*1 Depending on the product specifications, the ■ indication is sometimes omitted.

Mitsubishi Electric

Series Name	Inverters	1:n
FREQROL-A500	FR-A520-□K	●
	FR-A540-□K	●
FREQROL-A500L	FR-A520L-□K	●
	FR-A540L-□K	●
FREQROL-E500	FR-E520-□K	●
	FR-E540-□K	●
	FR-E520S-□K	●
	FR-E510W-□K	●
FREQROL-F500	FR-F520-□K	●
	FR-F540-□K	●
FREQROL-F500L	FR-F520L-□K	●
	FR-F540L-□K	●
FREQROL-S500	FR-S510W-□K-R	●
	FR-S520-□K-R	●
	FR-S520S-□K-R	●
FREQROLB, B3	FR-B-□K	●
	FR-B3-□□□K	●

Toshiba Schneider Inverter

Series Name	Inverters	1:n
VF-S9	VFS9□-□□□□□□-□□-A□□	●
VF-nC1	VFNC1□-□□□□□□-□-A□□	●
VF-S11	VFS11□-□□□□□□□-□□-A□□	●
VF-A7	VFA7-□□□□□□-A□□	●

Yaskawa Electric

Series Name	Inverters	1:n
Varispeed G7	CIMR-G7A□□□□	●
Varispeed F7	CIMR-F7A□□□□	●
VS mini V7	CIMR-V7□A□□□□	●
VS mini J7	CIMR-J7□A□□□□	●

Temperature Controllers

Chino

Series Name	Temperature Controllers	1:n
LT	LT23□□□200-□□□	●
	LT23□□□300-□□□	●
	LT3□□□□R□0-□□□	●
	LT3□□□□A□0-□□□	●
	LT3□□□□S□0-□□□	●
	LT4□□□□R□□-□□□	●
	LT4□□□□A□□-□□□	●
	LT4□□□□S□□-□□□	●
JU	JU□□□□□□□513	●
	JU□□□□□□□613	●

Fenwal Controls of Japan

Series Name	Temperature Controllers	1:n
AL Series	AL24R-□□□-□□□-□□□	●

Fuji Electric

Series Name	Temperature Controllers	1:n
Micro Controller-X (PXR)	PXR3□□□1-□□M00	●
	PXR3□□□1-□□V00	●
	PXR4□□□□-□□M00	●
	PXR4□□□□-□□V00	●
	PXR5□□□1-□□M00	●
	PXR5□□□1-□□V00	●
	PXR9□□□1-□□M00	●
	PXR9□□□1-□□V00	●

OMRON

Series Name	Temperature Controllers	1:n
E5_N Digital Temperature Controller	E5EN-□□□□□-FLK	●
	E5CN-□□□□□-FLK	●
	E5GN-□□□□□-FLK	●
	E5AN-□□□□□-FLK	●
Modular Dual Loop Temperature Controller	E5ZN-□□□□□-FLK	●

RKC Instrument

Series Name	Temperature Controllers	1:n
CB Series	CB100 Z-1021*1	●
	CB400 Z-1021*1	●
	CB500 Z-1021*1	●
	CB700 Z-1021*1	●
	CB900 Z-1021*1	●
	CB100 □□□□-□□*□□-5□/□*2	●
	CB400 □□□□-□□*□□-5□/□*2	●
	CB500 □□□□-□□*□□-5□/□*2	●
	CB700 □□□□-□□*□□-5□/□*2	●
	CB900 □□□□-□□*□□-5□/□*2	●
SR-Mini	H-PCP-A Z-1021*1	●
SRV	V-TIO-A-□□-□□*□□*1	●
SRX	X-TIO-A-□□-□□*□□*1	●
REX-F	F400□□□□-□□*□□-□□□-1□*2	●
	F400□□□□-□□*□□-□□□-4□*2	●
	F400□□□□-□□*□□-□□□-5□*2	●
	F700□□□□-□□*□□-□□□-1□*2	●
	F700□□□□-□□*□□-□□□-4□*2	●
	F700□□□□-□□*□□-□□□-5□*2	●
	F900□□□□-□□*□□-□□□-1□*2	●
	F900□□□□-□□*□□-□□□-4□*2	●
	F900□□□□-□□*□□-□□□-5□*2	●
SR Mini HG	H-PCP-J-□4□-D*□□*1	●
	H-PCP-J-□5□-D*□□*1	●
	H-PCP-J-□□1-D*□□*1	●
	H-PCP-J-□□4-D*□□*1	●
	H-PCP-J-□□5-D*□□*1	●
MA900	MA900-4□□□-□□-□*□□□-□6/□*1	●
	MA900-4□□□-□□-□*□□□-□7/□*1	●
	MA900-4□□□-□□-□*□□□-□8/□*1	●
	MA901-8□□□-□□-□*□□□-□6/□*1	●
	MA901-8□□□-□□-□*□□□-□7/□*1	●
	MA901-8□□□-□□-□*□□□-□8/□*1	●
HA900	HA900-□□-□□□*□□-□□8□-□/□/□*1	●
	HA900-□□-□□□-*□□-□□□6-□/□/□*1	●
	HA900-□□-□□□-*□□-□□□7-□/□/□*1	●
	HA900-□□-□□□-*□□-□□□8-□/□/□*1	●
	HA901-□□-□□□-*□□-□□6□-□/□/□*1	●
	HA901-□□-□□□-*□□-□□8□-□/□/□*1	●
	HA901-□□-□□□-*□□-□□□6-□/□/□*1	●
	HA901-□□-□□□-*□□-□□□7-□/□/□*1	●
	HA901-□□-□□□-*□□-□□□8-□/□/□*1	●
HA400	HA400-□□-□□□-*□□-□□8□-□/□/□*1	●
	HA400-□□-□□□-*□□-□□□8-□/□/□*1	●

RKC Instrument

Series Name	Temperature Controllers	1:n
HA400	HA400-□□-□□□-*□□-□□□6-□/□/□*1	●
	HA400-□□-□□□-*□□-□□□7-□/□/□*1	●
	HA400-□□-□□□-*□□-□□□8-□/□/□*1	●
	HA401-□□-□□□-*□□-□□6□-□/□/□*1	●
	HA401-□□-□□□-*□□-□□8□-□/□/□*1	●
	HA401-□□-□□□-*□□-□□□6-□/□/□*1	●
	HA401-□□-□□□-*□□-□□□7-□/□/□*1	●
	HA401-□□-□□□-*□□-□□□8-□/□/□*1	●
SA200	SA200□□□□-□□-□*□□-6□/□/□*1	●
LE100	LE100-□□*□5□-□□*2	●

*1 MODBUS protocol supported. *2 RKC protocol supported.

Shimaden

Series Name	Temperature Controllers	1:n
SR253	SR253-□□-□-□□□□□□□5□	●
	SR253-□□-□-□□□□□□□6□	●
	SR253-□□-□-□□□□□□□7□	●
SR80	SR82-□□-□-□□-□□□□5□□	●
	SR82-□□-□-□□-□□□□7□□	●
	SR83-□□-□-□□-□□□□5□□	●
	SR83-□□-□-□□-□□□□7□□	●
	SR84-□□-□-□□-□□□□5□□	●
	SR84-□□-□-□□-□□□□7□□	●
SR90	SR91-□□-□□-□5□	●
	SR92-□□-□-□□-□□5□	●
	SR92-□□-□-□□-□□7□	●
	SR93-□□-□-□□-05□	●
	SR93-□□-□-□□-07□	●
	SR94-□□-□-□□-05□	●
	SR94-□□-□-□□-07□	●
MR13	MR13-□□□-□□□□15□	●
	MR13-□□□-□□□□17□	●
FP93	FP93-□□-□□-□5□	●
	FP93-□□-□□-□7□	●
SD16	SD16-□□□-□□5□	●
	SD16-□□□-□□7□	●
EM70	EM70-□□-□□□5□	●
	EM70-□□-□□□7□	●

Shinko Technos

Series Name	Temperature Controllers	1:n
C	CPT-20A	●
FC	FCD-13A□□ ,C	●
	FCD-13A□□ ,C5	●
	FCD-15A□□ ,C	●
	FCD-15A□□ ,C5	●
	FCR-13A□□ ,C	●
	FCR-13A□□ ,C5	●
	FCR-15A□□ ,C	●
	FCR-15A□□ ,C5	●
FIR	FIR-201-M□□ ,C	●
	FIR-201-M□□ ,C5	●
GC	GCS-300□□,C5	●
FCL	FCL-13A□□,C5	●
PC-900	PC-935□□ ,C	●
	PC-935□□ ,C5	●
	PC-955□□ ,C	●
	PC-955□□ ,C5	●
PCD-33A	PCD-33A-□/M, □ C5	●
JCR-33A	JCR-33A-□/M, C5	●
JCD-33A	JCD-33A-□/M, C5	●
JIR-301-M	JIR-301-M, □ C5	●
DCL-33A	DCL-33A-□/M, □ C5	●

Toho Denshi

Series Name	Temperature Controllers	1:n
TTM-004	TTM-004-□-A□□	●
TTM-X04	TTM-X04-□-□□□□	●
TTM-00B	TTM-00B-□-□□□□	●
TTM-10L	TTM-10L-□-□-□	●
TTM-100B	TTM-100B4-□□-□□□□-□□□	●
	TTM-100B8-□□-□□□□-□□□	●
TTM-110	TTM-114-□-□□-□□□□□□-□	●
	TTM-115-□-□□-□□□□□□-□	●
	TTM-117-□-□□-□□□□□□-□	●
	TTM-119-□-□□-□□□□□□-□	●
TTM-110B	TTM-110B-□-□□-□□□□□□-□	●
TTM-120	TTM-124-□-□□-□□□□□□-□	●
	TTM-125-□-□□-□□□□□□-□	●
	TTM-127-□-□□-□□□□□□-□	●
	TTM-129-□-□□-□□□□□□-□	●
TTM-300	TTM-304-□-□N-□□□□-□	●
	TTM-305-□-□N-□□□□-□	●
	TTM-309-□-□N-□□□□-□	●
TTM-300B	TTM-300B-□-□N-□□□□-□	●
TTM-1020	TTM-1520-□□-□□-□□□□-□	●
	TTM-1521-□□-□□-□□□□-□	●
	TTM-1522-□□-□□-□□□□-□	●
	TTM-1523-□□-□□-□□□□-□	●
	TTM-1524-□□-□□-□□□□-□	●
	TTM-1525-□□-□□-□□□□-□	●
	TTM-1920-□□-□□-□□□□-□	●
	TTM-1921-□□-□□-□□□□-□	●
	TTM-1922-□□-□□-□□□□-□	●
	TTM-1923-□□-□□-□□□□-□	●
	TTM-1924-□□-□□-□□□□-□	●
	TTM-1925-□□-□□-□□□□-□	●

Yamatake

Series Name	Temperature Controllers	1:n
SDC	SDC20	●
	SDC21	●
	SDC30	●
	SDC31	●
	SDC40A	●
	SDC40B	●
	SDC40G	●
DMC	DMC10	●

Yokogawa M&C

Series Name	Temperature Controllers	1:n
UT100	UT130	●
	UT150	●
	UT152	●
	UT155	●
	UP150	●
UT2000	UT2400-□	●
	UT2800-□	●
UT3000	UT3040-□□1	●
	UT3080-□□1	●
	UT3160-□□1	●
GREEN SERIES	UT320-□1	●
	UT350-□1	●
	UT420-□7	●
	UT450-□1	●
	UT450-□2	●

Servos

Matsushita Electric

Series Name	Servos	1:n
MINAS-A	M□DA□□□□□□□	●
MINAS-S	MUDS□□□□□□	●

Analyzer

JT Engineering

Series Name	Analyzer	1:n
JE-70	JE-70	●

Bar-Code Readers

2-D Code Reader (Connected to Expansion Serial Interface)

	Series Name
Tohken	THIR-3000
	THIR-3000H
Denso	QS20H
	QS20H-I

Bar Code Readers (Connected to Tool Connector)

	Series Name	Type
Aimex	BR-331 PC2	Pen
OPTO Electronics	OPT-1105-RSK 98 Set	Touch Scanner (Read Width: 60mm)
	OPT-5105-RSK 98 Set	Touch Scanner (Read Width: 80mm)
	OPL-6735-RSK 98 Set	Touch Scanner (Read Width: 100mm)
Tohken	TCD-5510M	Touch Scanner (Read Width: 65mm)
	TCD-5510L	Touch Scanner (Read Width: 82mm)
	TCD-5510W	Touch Scanner (Read Width: 105mm)
NEC Infrontia	BCK5435-STA	Touch Scanner (Read Width: 56mm) *1*2
	BCK5535-STA	Touch Scanner (Read Width: 85mm) *1*2

*1 Be sure to use the Y cable included with the unit and connect it between GLC unit and a bar-code reader. Data cannot be read correctly, if a non-"Y" cable is used, or if the bar-code reader is connected directly to the GLC unit.
*2 The following settings must be entered prior to using the bar-code reader with a GLC unit.
1) Set the CAPS.
2) Add the Carriage Return (CR) in the Postamble's settings.
For the details about these settings, please refer to the Installation Guide included with the bar-code unit.

Bar-Code Readers (Connected to Expansion Serial Connector)

	Series Name	Type
Aimex	BR-730RS	Pen
	BR-530RS	Pen
	BW-665RS	Touch Scanner (Read Width: 65mm)
OPTO Electronics	OPT-1125-RS232C-K	Touch Scanner (Read Width: 60mm)
	OPT-5125-RS232C-H	Touch Scanner (Read Width: 80mm)
	NFT-7175-L-RS232C	Fixed Type (Read width: 60mm)
Symbol Technology	LS4004	Laser Scanner
	LS4004i	Laser Scanner
	LS6004	Laser Scanner
	LSH3502AHV	Laser Scanner
Keyence	BL-80R	Touch Scanner (Read Width: 105mm)
Denso	HC36TR	Touch Scanner (Read Width: 61mm)
	HC61TR	Touch Scanner (Read Width: 61mm)

Speakers

	Series Name	Connection Port
Arrow Electronics	NS-38	SP OUT, GND
	NS-105	
Noboru Electric	NP-110	
	FA-101	
	NAC-2031B	

*GLC2600/2500/2400 Series only.

- There are also precautions and other information related to their connection. For details, please refer to the Device/PLC Connection Manual.
- New equipment is being added to this list regularly. Please consult your Pro-face sales representative for the latest information.
- n:1(Multi-link) = multiple GLCs : 1 PLC * 1:n = 1 GLC : multiple PLCs * n:m = multiple GLCs : multiple PLCs
- Some usage restrictions exist for Pro-Server. Please refer to the Pro-Server User's Manual for details.

Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

GLC Distributed I/O System

FLEX NETWORK I/O SPECIFICATIONS

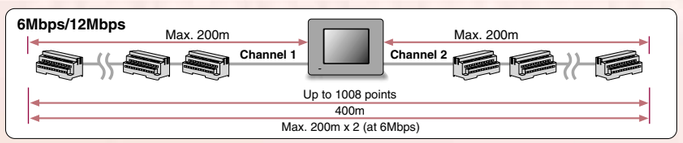
		DIO Terminals								
		8-point I/O	16-point I/O				32-point I/O			64-point I/O
		8-point Relay Output/ 1 Common	16-point Sink/Source Input	8-point Sink/Source Input, 8-point Sink Transistor Output	16-point Sink Output	16-point Source Output	32-point Sink/Source Input	16-point Sink/Source Input, 16-point Sink Transistor Output	16-point Sink/Source Input, 16-point Transistor Source Output	32-point Sink/Source Input, 32-point Transistor Sink Output
Model		**FN-Y08RL41**	**FN-X16TS41**	**FN-XY08TS41**	**FN-Y16SK41**	**FN-Y16SC41**	**FN-X32TS41**	**FN-XY16SK41**	**FN-XY16SC41**	**FN-XY32SKS41**
Electrical	Rated Voltage	DC24V								
	Allowable Voltage Range	DC20.4V to DC28.8V								
	Allowable Voltage Drop	10ms or less (for DC24V power supply)								
	Internal Power Consumption	1.0W or less	1.5W or less				2.5W or less			3.5W or less
	Voltage Endurance	AC1500V at 10mA for 1 minute (between power/Input and Output, and FG terminals.)					AC500V at 10mA for 1 minute (between power/Input and Output, and FG terminals.)			
	Insulation Resistance	10MΩ or higher at DC500V (between power/Input and Output, and FG terminals.)								
	In-rush Current	30A or less								15A or less
Environmental	Operating Temperature	0˚C to +55˚C								
	Storage Temperature	–25˚C to +70˚C								
	Operating Humidity	5% RH to 95% RH (non-condensing, wet bulb temperature: less than 39˚C)								
	Storage Humidity	5% RH to 95% RH (non-condensing, wet bulb temperature: less than 39˚C)								
	Air Purity (Dust)	0.1mg/m³ or less (non-conductive levels)								
	Pollution Degree	Pollution degree 2								
	Corrosive Gas	Free of corrosive gases								
	Vibration Endurance	5Hz to 55Hz, 60m/s² for 2 hours each in X, Y, and Z directions					IEC61131-2 (JIS B 3501) compliant When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s² When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times (80min.)			
	Shock Endurance	300m/s² (for 10ms in X, Y, and Z directions-3 times each)					IEC61131-2 (JIS B3501) Compliant 147m/s² (for 11ms in X, Y, Z directions-2 times each)			
	Noise Immunity (via noise simulator)	Noise voltage: 1000Vp-p, Pulse Duration: 1µs, Arise time: 1ns								
	Electrostatic Discharge Immunity	Contact Discharge Method 6kV (IEC 61000-4-2, Level 3)								
Structural	Attachment Method	via 35mm DIN rail or by attachment screws								
	Cooling Method	Natural air circulation								
	Weight	150g or less					350g or less			
	External Dimensions	W108mm [4.25in] x H45mm [1.77in] x D49mm [1.93in]					W110mm [4.33in] x H95mm [3.74in] x D57mm [2.24in]			W135mm [5.31in] x H95mm [3.74in] x D46mm [1.81in]
	Rating	IP20								IP20 (Without terminal block)
Input/Output Input	Rated Input Voltage	—	DC24V		—		DC24V			
	Max. Input Voltage	—	DC28.8V		—		DC28.8V			
	Input Points	—	16 points (common for sink/source types)	8 points (common for sink/source types)	—		32 points (common for sink/source types-dual use)	16 points (common for sink/source types-dual use)		32 points (common for sink/source types-dual use)
	Input Type	—	Type 1 *1		—		Type 1 *1			
	Input ON Voltage	—	DC15V or more		—		DC15V or more			
	Input OFF Voltage	—	DC5V or less		—		DC5V or less			
	Input Impedance	—	4.1kΩ		—		4.2kΩ			
	Input Delay OFF – ON	—	1.5ms or less		—		1.5ms or less			
	Input Delay ON – OFF	—	1.5ms or less		—		1.5ms or less			
Input/Output Output	Rated Output Voltage	DC24V	—	DC24V			—	DC24V		
	Output Terminal Allowable Voltage Range	DC20.4V to DC28.8V	—	DC20.4V to DC28.8V			—	DC20.4V to DC28.8V		
	Power Consumption	1.2W or less (when all outputs are ON/DC24V)	—							
	Output Points	8 points/ 1 common	—	8 points (open drain sink output)	16 points (open drain sink output)	16 points (open drain source output)	—	16 points (open drain sink output)	16 points (open drain source output)	32 points (open drain sink output)
	Max. Load Current	1.0A/point (8 points/ 1 common, max. common current 4.0A)	—	0.2A/point (8 points/ 1 common, max. common current 1.6A)	0.2A/point (16 points/1 common, max. common current 2.0A)		—	0.2A/point (16 points/1 common, max. common current 1.6A)		
	Short-circuit Protection	—		None			—	None		
	Built-in Fuse	—						3.5A, DC125V built-in Chip Fuse (cannot be replaced)		
	Voltage Drop (ON Voltage)	—		DC1.5V or less				DC1.5V or less		
	Clamp Voltage	—		DC39V±1V				DC39V±1V		
	Current Leakage	—		0.1mA or less	0.1mA		—	0.1mA or less		
	Output Delay Time OFF – ON	10ms or less	—	1ms or less				1ms or less		
	Output Delay Time ON – OFF	5ms or less	—	1ms or less				1ms or less		
	Contact Rating	1A at AC240V (resistive load, dielectric load) 1A at DC24V (resistive load, dielectric load)	—							
	Max. Closing Load	1mA/DC5V	—							
	Initial Contact Resistance	50mΩ or less	—							
	Electrical Lifetime	100,000 operations or more	—							
	Mechanical Lifetime	20,000,000 operations or more	—							
Number of Occupied Nodes		1					2	1		4

* When connecting units to the Flex Network, use Flex Network communication cables for stable, high-speed communications.

International Safety Standards

Model numbers ending in "41" comply with the following standards:

CE UL cUL



		Single-axis Positioning Unit	High-speed Counter Unit	Analog Units	
		High-spec Units			
				4-channel Analog Input Unit	4-channel Analog Output Unit
Model		**FN-PC10SK41/Teaching Loader: FN-PC10LD41**	**FN-HC10SK41**	**FN-AD04AH11**	**FN-DA04AH11**
Electrical	Rated Voltage	DC24V			
	Allowable Voltage Range	DC20.4V to DC28.8V			
	Allowable Voltage Drop	10ms or less (for DC24V power supply)			
	Internal Power Consumption	4.5W or less	2.5W or less	4.8W or less	7.2W or less
	In-rush Current	30A or less	15A or less	30A or less	
	Voltage Endurance	AC500V 20mA for 1 min. (combined I/O power and FG terminals)	AC500V 20mA for 1 min. (between I/O and earth terminals)	AC1500V 10mA 1 min. (between input/output and FG terminals) AC500V 1 min. (between power supply 1st Level and 2nd Level)	
	Insulation Resistance	10MΩ or higher at DC500V (combined I/O power and FG terminals)	10MΩ or higher at DC500V (between I/O and earth terminals)	10MΩ or higher at DC500V (between charging and FG terminals)	
Environmental	Operating Temperature	0˚C to +55˚C			
	Storage Temperature	–25˚C to +70˚C			
	Operating Humidity	30% RH to 95% RH (non-condensing)			
	Storage Humidity	30% RH to 95% RH (non-condensing)			
	Air Purity (Dust)	0.1mg/m³ or less (non-conductive levels)			
	Corrosive Gas	Free of corrosive gases			
	Atmospheric Pressure	800hPa to 1,114 hPa (2,000m or lower)		—	
	Vibration Endurance	IEC61131-2 (JIS B 3501) compliant — When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s² When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times (80min.)		5Hz to 55Hz 60m/s² (in X, Y, Z directions for 3 times each)	
	Shock Endurance	IEC61131-2 (JIS B3501) Compliant 147m/s² (for 11ms in X, Y, Z directions-2 times each)		—	
	Noise Immunity (via noise simulator)	Noise voltage: 1000Vp-p, Pulse Duration: 1µs, Arise time: 1ns			
	Electrostatic Discharge Immunity	Contact Discharge Method 6kV (IEC 61000-4-2 Level 3)			
Structural	Attachment Method	via 35mm DIN rail or by attachment screws			
	Cooling Method	Natural air circulation			
	Weight	700g [1.54lb] or less (Main unit only)	150g [0.33lb] or less	350g [0.77lb] or less	
	External Dimensions	W122mm [4.80in] x H196mm [7.72in] x D35mm [1.38in]	W108mm [4.25in] x H49mm [1.93in] x D45mm [1.77in]	W168mm [6.61in] x H50mm [1.96in] x D50mm [1.96in]	
	Rating	IP30 (without terminal block)	IP20	IP30 (without terminal block)	
Performance Specifications	No. of Control Axis	1			
	Input Control	Photo-coupler Isolation			
	Program Method	Sequence program, Teaching loader			
	Max. Positioning Memory	90 points (ABS/INC)			
	Pulse Output Method	CW/CCW Line Driver Output/Open Collector Output			
	Output Frequencies *2	1.5625pps to 62.5kpps/6.25pps to 250kpps/12.5pps to 500kpps/ 50pps to 2Mpps (set via parameters)			
	Max. Pulse Output	+/-2,147,483,647 pulses			
	Accelerate/Decelerate Method	Trapezoidal and Sinusoidal curves			
	Position Settings	Absolute/Incremental			
	Backlash Correction	0 to 65,535 pulses			
	Control Mode	Manual, Automatic, Direct			
	Origin Point Return	4 Types (option, low-speed, 2 types of high speed)			
	Origin Point Correction	-32,767 to 32,767 pulses			
Input	Control Input	Rated Input Voltage: DC24V; Maximum Allowable Input Voltage: DC26.4V; No. of Input Points: 5 points (1 common); Input ON Voltage: DC19V or higher; Input OFF Voltage: DC5V or less; Input Impedance: 3.9kΩ; Input Delay OFF-ON: 1.5ms or less; Input Delay ON-OFF: 1.5ms or less			
	Z Phase Input	Rated Input Voltage: DC5V; Maximum Allowable Input Voltage: DC5.5V; No. of Input Points: 1; Input Impedance: 330Ω; Input ON Voltage: DC4V or higher; Input OFF Voltage: DC1V or lower; Input Delay OFF-ON: 1.5ms or less; Input Delay ON-OFF: 1.5ms or less			
Output	Control Output	Rated Output Voltage: DC24V; Maximum Allowable Output Voltage: DC24V(+/-10%); No. of Output Points: 1; Maximum Load Current: 50mA or less; Output Hold Feature: None; Voltage Drop (ON Voltage): DC1.5V or less; Clamp Voltage: DC39V +/-1V; Current Leakage: 0.1mA or less; Output Delay Time OFF-ON: 1ms or less; Output Delay Time ON-OFF: 1ms or less			
	Pulse Output: Open Collector	Rated Output Voltage: DC5V; Maximum Allowable Output Voltage: DC4.5V to DC5.5V; No. of Output Points: 2 points (CW/CCW); Maximum Load Current: 50mA or less; Output Hold Feature: None; Voltage Drop (ON Voltage): DC0. 8V or less			
	Pulse Output: Line Driver (non-isolated)	Differential Output; Output Hold Feature: None	Equivalent to TI Corp. SN75158		
Number of Occupied Nodes		4			

Input Mode	MODE1	MODE2	MODE3	MODE4
Counter Type	16-bit up counter	32-bit up counter	32-bit up/down counter	
Input Type	DC Input (DV24V Open Collector)		Differential Input (Line Driver)	DC Input (DV24V Open Collector)
Pulse Count Method (up/down counter)	———	———	1-phase 1-multiplication; 2-phase 1-multiplication; 2-phase 2-multiplication; 2-phase 4-multiplication	1-phase 1-multiplication; 2-phase 1-multiplication; 2-phase 2-multiplication; 2-phase 4-multiplication
Calculated Speed	10kpps/1kpps		200kpps/50kpps; 100kpps/25kpps; 50kpps/12.5kpps	3kpps/1kpps; 1.5kpps/0.5kpps; 0.75kpps/0.25kpps
No. of Counters	2	1	1 (Encoder A, B differential input)	1 (DC input)
Calculation Range	0 to FFFF 0 to 65535 (16 bits)	0 to FFFFFFFF 0 to 4,294,967,295 (32 bits)	80000000h to 7FFFFFFFh (32-bit signed binary) -2,147,483,648 to +2,147,483,647	
Compare Output Mode	Comparator Output x2 (=)		Cam Switch Simultaneous Output x 2	

Data Transfer settings	
Communication Configuration	1: N
Connection Method	Multi-Drop Connection
Maximum Distance	200m/channel at 6Mbps: 100m/channel at 12Mbps
Communication Method	Cycle Time Division, half-duplex
Communication Speed	6Mbps, 12Mbps
Communication Interface	Differential, pulse-transformer isolation
Error Check	Format, bit, CRC-12 verification
Number of Connectable Nodes	63 (max.), 1008 I/O points (number of occupied nodes varies according to I/O units)
Number of Occupied Nodes	8

Input	Type	Differential Input (Line Driver)	DC Input (DC24V Open Collector)	
			Pulse Input (PLS 1/2)	External Reset Input (RST 1/2)
	Rated Input Voltage	DC5V	DC24V	
	Max. Input Voltage	DC4.5V to DC5.5V	DC26.4V	
	Calculated Speed (Rise and Fall time)	t = 0.5µs or less (200kpps)	t = 10µs or less(10kpps)	———
	Min. Pulse Width	5µs; 2.5µs; 2.5µs	100µs; 50µs; 50µs	2.5ms
	Input Signal Phase	90°C phase differential 2-phase signal, 1 phase + directional signal,1 phase addition signal		
	Input Impedance	470Ω	4.9kΩ	
	Input ON Voltage	EIA Standard RS-422-A Differential Driver (Equivalent to Texas Instruments SN75157)	DC19V or more	
	Input OFF Voltage		DC5V or lower	
	Input Delay OFF-ON			Maximum: 1.5ms
	Input Delay ON-OFF			Maximum: 1.5ms
Output	Rated Output Voltage	DC24V		
	Rated Output Voltage Range	DC24V (+/-10%)		
	Output Voltage Drop	DC1.5V or lower		
	Output Current	50mA or lower		
	Output Delay OFF-ON	Maximum: 1ms		
	Output Delay ON-OFF	Maximum: 1ms		
	Leakage Current	0.1mA or lower		

Input/Output		
Resolution	12bit	
Output/Input Channels	4 (fixed)	
Conversion Time	Max. 2msec/4 channels	
Input/Output Range	0 to 5V*3; 1 to 5V*3; 0 to 10V*3; -5 to 5V*3; -10 to 10V*3; 0 to 20mA*4; 4 to 20mA*4	
Input/Output Range Switch	Depends on rotary switch settings	
Calibration Function	OFFSET, GAIN Setting (Setting the upper limit)	
Accuracy	0.3% / FS(25˚C) 0.5% / FS(0˚C to 55˚C)	
Isolation Method	Photo-coupler isolation*5	
Processing (after conversion)	- Simple average - Sliding average - Delete max./min. sample data values	—
Conversion Timing	Continual conversion of all channels (not selectable)	
Number of Occupied Nodes	4	

*1 Digital input is for detecting signals from mechanical switching devices such as relay contacts, push buttons, switches, etc.
*2 Max. speed for open collector output is 100kpps.
*3 FN-AD04AH11 is an impedance 1MΩ. FN-DA04AH11 is an impedance 1kΩ.
*4 FN-AD04AH11 is an impedance 200Ω. FN-DA04AH11 is an impedance 400Ω.
*5 Between input terminal and internal circuit (FN-AD04AH11).
Between output terminal and internal circuit (FN-DA04AH11).

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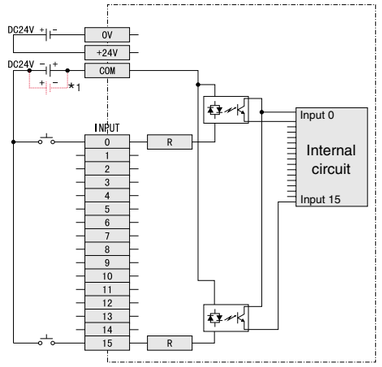
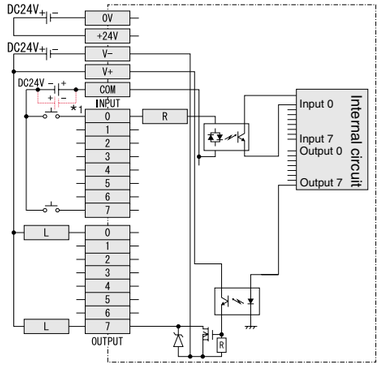
GLC Distributed I/O System

FLEX NETWORK I/O CIRCUIT DIAGRAMS

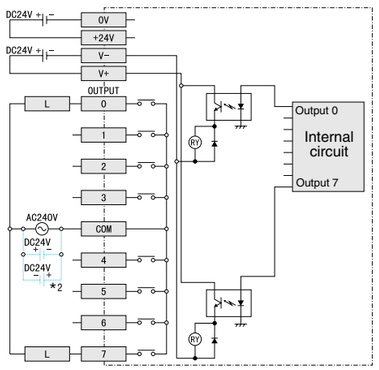
FN-X16TS41
(Sink-Source Input Type)



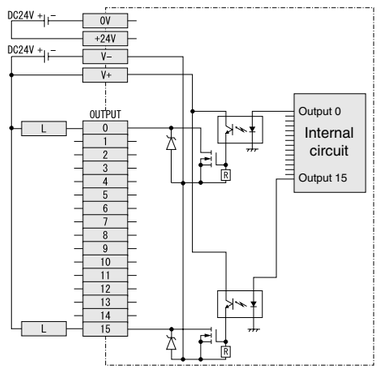
FN-XY08TS41
(Sink-Source Input & Sink Transistor Output Type)



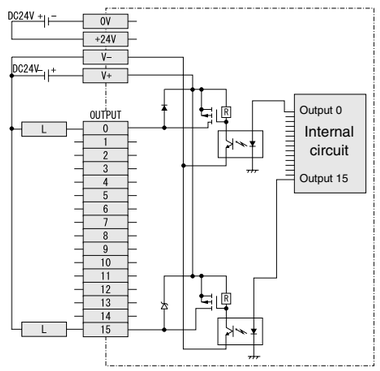
FN-Y08RL41
(Relay Output/Common Type)



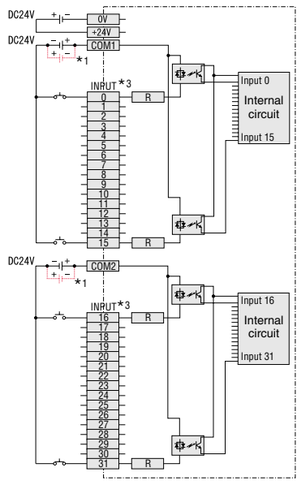
FN-Y16SK41
(Sink Output Type)



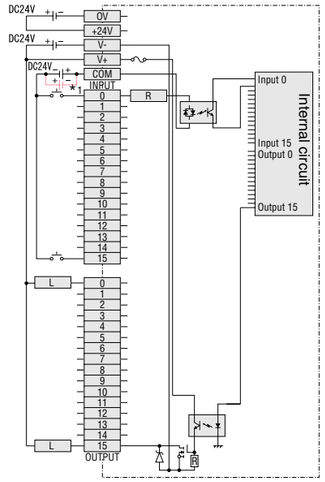
FN-Y16SC41
(Source Output Type)



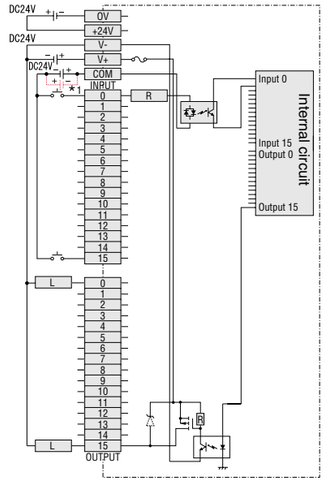
FN-X32TS41
(Sink-Source Input Type)



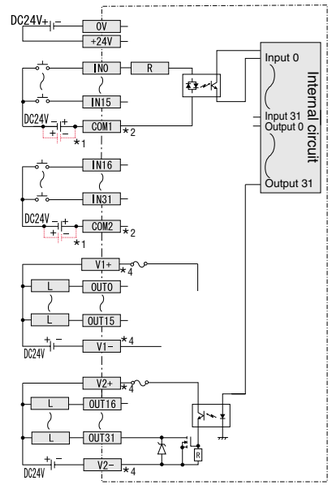
FN-XY16SK41
(Sink-Source Input & Sink Transistor Output Type)



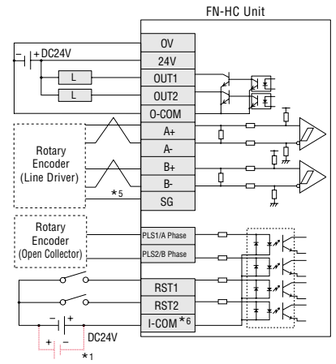
FN-XY16SC41
(Sink-Source Input & Source Transistor Output Type)



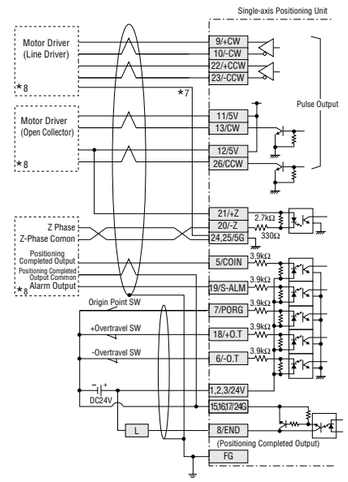
FN-XY32SKS41
(Sink-Source Input & Sink Transistor Output Type)



FN-HC10SK41
(High-speed Counter Unit)



FN-PC10SK41
(Single-axis Positioning Unit)



*1 Dotted line shows the source output connection.

*2 The COM power supply can be changed according to the relay specifications.

*3 When using IN0 to IN15, use COM1. When using IN16 to IN31, use COM2 as the input common.

*4 For OUT0 to OUT15, connect the output power to V1+/V1-.
For OUT16 to OUT31, connect the output power to V2+/V2-.

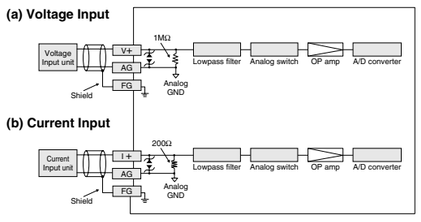
*5 The FN-HC unit's input line is not isolated. When connecting this unit to a non-isolated line driver, be sure to connect the signal ground (SG terminal).

*6 The Input Common (I-COM) shown here is connected to a Sink Output type. (The dotted line shows the connection with a Source Output type.)

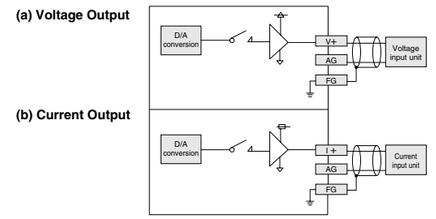
*7 The FN-PC unit's live line is not isolated. If it is connected to a non-isolated servo driver, be sure to connect the signal ground (5G) to prevent an over-current accident.

*8 For motor driver connection details, refer to appendix 1.

Input Section Circuit Diagram (FN-AD04AH11)



Output Section Circuit Diagram (FN-DA04AH11)



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Specifications

GLC DISTRIBUTED I/O (FLEX NETWORK) I/F SPECIFICATIONS

Communication Type	1:N
Connection Method	Multi-Drop Connection
Transfer Distance	6Mbps 200m per CH, at 12Mbps100m per CH
Transfer Method	During cyclic period, distributed transmission, Half-duplex
Transfer Speed	6Mbps, 12Mbps
Transfer I/F	Differential method, Pulse transfer resistance
Error Check	Format, bit, CRC-12 verification
No. of Nodes	63 (max.), 1008 I/O points

I/F Connector (GLC2600T/2500T/2400T)

Pin No.	Signal Name	Condition		Pin Assignments
1	AUXCOM	External Reset Common	Ext.Reset	1 … 12
2	AUXRESET	External Reset Input		
3	TR+	CH1 Communication Data	Flex Network	
4	TR-	CH1 Communication Data		
5	SLD	CH1 Cable Shield Line		
6	TR+	CH2 Communication Data		
7	TR-	CH2 Communication Data		
8	SLD	CH2 Cable Shield Line		
9	RESERVE	Reserved	—	
10	SP OUT	Speaker Output	Sound Output	
11	GND	Ground		
12	LINE OUT	Sound Lineout Output		

I/F Connector (GLC2300T/L)

Pin No.	Signal Name	Condition	Pin Assignments
1	TR+	CH1 Communication Data	1 … 6
2	TR-	CH1 Communication Data	
3	SLD	CH1 Cable Shield Line	
4	TR+	CH2 Communication Data	
5	TR-	CH2 Communication Data	
6	SLD	CH2 Cable Shield Line	

SERIAL I/F (COM1) SPECIFICATIONS

Recommended Connector: Dsub 25-pin plug XM2A-2501 (OMRON)
Recommended Cover: Dsub 25-pin cover XM2S-2511 (OMRON)
Jack Screws XM2Z-0071 (OMRON)
* Use rough metric type M2.6x0.45 p threads to secure the cable's set screws.
Recommended Cable: CO-MA-VV-SB5P 28AWG (Hitachi Cable Ltd.)

Serial I/F	Asynchronous: RS-232C/RS-422; Data length: 7 or 8bits; Stop bit: 1 or 2bits; Parity: none, odd or even; Data transmission speed: 2400 to 115.2kbps (MPI: 187.5kbps)

SIO Connector Specifications

Pin No.	Signal Name	Condition	Pin Assignments
1	FG	Frame Ground	1 … 14, 13 … 25
2	SD	Send Data (RS-232C)	
3	RD	Receive Data (RS-232C)	
4	RS	Request Send (RS-232C)	
5	CS	Clear Send (RS-232C)	
6	DR	Data Set Ready (RS-232C)	
7	SG	Signal Ground	
8	CD	Carrier Detect (RS-232C)	
9	TRMX	Termination (RS-422)	
10	RDA	Receive Data A (RS-422)	
11	SDA	Send Data A (RS-422)	
12*	NC	No Connection (Reserved)	
13*	NC	No Connection (Reserved)	
14	VCC	5V ±5% Output 0.25A	
15	SDB	Send Data B (RS-422)	
16	RDB	Receive Data B (RS-422)	
17	RI	Ring Indicate (RS-232C)	
18	CSB	Clear Send B (RS-422)	
19	ERB	Enable Receive B (RS-422)	
20	ER	Enable Receive (RS-232C)	
21	CSA	Clear Send A (RS-422)	
22	ERA	Enable Receive A (RS-422)	
23*	NC*	No Connection (Reserved)	
24*	NC*	No Connection (Reserved)	
25*	NC*	No Connection (Reserved)	

*Pins 12, 13, 23, 24 and 25 are reserves. Do not connect anything to them.

COMMON I/F SPECIFICATIONS

Tool Connector

Tool Connector	Asynchronous: TTL level non-procedural command Connect data transfer cable for transferring data, serial printer, Bar code reader

SERIAL I/F (COM2) SPECIFICATIONS

Recommended Connector: Dsub 9-pin socket XM2D-0901 (OMRON)
Recommended Cover: Dsub 9-pin cover XM2S-0913 (OMRON)
Jack Screws XM2Z-0073 (OMRON)

SIO Connector Specifications

Pin No.	Signal Name	Signal Direction	Condition	Pin Assignments
1	CD	Input	Carrier Detect (RS-232C)	5 … 9, 1 … 6
2	RD	Input	Receive Data (RS-232C)	
3	SD	Output	Send Data (RS-232C)	
4	ER	Output	Enable Receive (RS-232C)	
5	SG	———	Signal Ground	
6	DR	Input	Data Set Ready (RS-232C)	
7	RS	Output	Request Send (RS-232C)	
8	CS	Input	Clear Send (RS-232C)	
9	RI/VCC	Input/Output	Ring Indicate (RS-232C) +5V+5% 0.25A	

PRINTER INTERFACE SPECIFICATIONS

Pin No.	Signal Name	Condition	Pin Assignments
1	GND	Ground	1 … 11, 10 … 20
2	RESERVE	Reserved	
3	PDB5	Data Signal	
4	PDB4	Data Signal	
5	PDB3	Data Signal	
6	GND	Ground	
7	SLCT	Select Status (Input)	
8	PDB0	Data Signal	
9	$\overline{\text{PSTB}}$	Strobe Signal (Output)	
10	BUSY	Busy Signal (Input)	
11	PDB7	Data Signal	
12	PDB6	Data Signal	
13	GND	Ground	
14	$\overline{\text{ERROR}}$	Printer Error (Input)	
15	GND	Ground	
16	PDB2	Data Signal	
17	PDB1	Data Signal	
18	PE	Paper Runout	
19	$\overline{\text{INIT}}$	Initialization Signal (Output)	
20	GND	Ground	

Accessories

SOFTWARE

Screen Editor and Logic Program Development Software
GP-PRO/PB III C Package
GPPRO-CNT01W-P**

Data Collection Software
Pro-Server with Pro-Studio
PSW-ED01-V**

Pro-Server Add-on Software
GP-Viewer
PSW-GV01-V**

Web Operation Software
GP-Web
GW-CJ01-V**

FOR TOOL CONNECTOR

Data Transfer Cable
GPW-CB02

USB Data Transfer Cable
GPW-CB03

FOR CF CARD INTERFACE

CF Card (64MB)
CA3-CFCALL/64MB-01
CF Card (128MB)
CA3-CFCALL/128MB-01
CF Card (256MB)
CA3-CFCALL/256MB-01
CF Card (512MB)
CA3-CFCALLL/512MB-01

CF Card Adaptor
GP077-CFAD10

CF Card Front Maintenance Unit*
GP077-CFFM10 For GLC 2600T For GLC 2500T

* This Unit cannot be used at the same time as the Bus Conversion Unit (PSL-CONV00)

FOR SERIAL INTERFACE (COM1)

RS-232C Cable (5m)
GP410-IS00-O

RS-422 Cable (5m)
GP230-IS11-O

For Multi-link Cable
GP230-IS12-O

RS-442 Connector Terminal Block Adapter
GP070-CN10-O

CPU I/F Cable for Mitsubishi PLC A, QnA Series
GP430-IP10-O

CPU I/F Cable for Mitsubishi PLC FX Series
GP2000-CBLFX/1M-01
GP2000-CBLFX/5M-01

FOR EXPANSION UNIT INTERFACE 1

FRS-422 cable for Two-port Adapter II
GP070-MDCB11

Two-port Adapter II for Mitsubishi PLC A. QnA. FX Series
GP070-MD11

PROFIBUS Slave Unit *1
CA1-PFSALL-21 CE
DeviceNet Slave Unit *1
CA1-DNSALL-21 CE
CANopen Slave Unit *1
CA1-COSALL-21 CE

FOR EXPANSION UNIT INTERFACE 2

Video-mix Unit
GP2000-VM41 CE UL cUL
For GLC 2600T For GLC 2500T

*1 To be sold at only Pro-Face Europe B.V.. For further information, please contact Pro-face Europe B.V..

FOR PRINTER INTERFACE

Printer Cable (2m)
PSM-PRCB00 For GLC 2600T For GLC 2500T For GLC 2400T

FOR FLEX NETWORK

Flex Network Communication Cable
FN-CABLE 2010-31-MS (10m)
FN-CABLE 2050-31-MS (50m)
FN-CABLE 2200-31-MS (200m)

Motor Driver Connection Cable
FN-PC10CB01 (1m)

Single-axis Teaching Loader Cable
FN-LD10CBL (5m)

64-point I/O unit DIO Connector (Spring Type)
GLC-DIOCN03

Screw Lock Terminal Block
GLC2300-FNCN01 For GLC 2300L/T

FOR MAINTENANCE OPTION

Backlight
PS600-BU00 For GLC 2600T
GP577RT-BL00-MS For GLC 2500T
PS400-BU00-MS For GLC 2400T
PS300-BU00 For GLC 2300L

Rubber Gasket
GP570-WP10-MS For GLC 2600T For GLC 2500T
PS400-WP00-MS For GLC 2400T
PS300-WP00 For GLC 2300L/T

Installation Fastener
GP070-AT01

Connector Cover
PS-BH00

Screw Lock Terminal Block
GPM-AXCN01 For GLC 2600T For GLC 2500T For GLC 2400T

Screen Protection Sheet (5 sheets/set)
PSL-DF00 For GLC 2600T For GLC 2500T
PS400-DF00 For GLC 2400T
PS300-DF00 For GLC 2300L/T

Smooth system integration of Pro-face products is assured with a total support network.

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Caution: Before operating any of these products, please be sure to read all related manuals thoroughly.

- For printing purposes, the colors in this catalog may differ from those of the actual unit.
- Actual user screens may differ from the screens shown here.
- LCD screens may exhibit minute grid-points (light and dark) on the Display Panel surface. Also, "Contouring" - where some parts of the screen are brighter than others, producing a wavelike pattern - may occasionally occur. Both are normal for an LCD display and are not defects.
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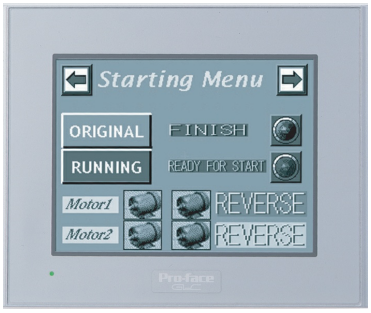


An aluminum body for superb cooling and dust resistance.

GLC2300-LG41-24V

GLC2300L Monochrome

5.7" HMI with distributed I/O and industrial network connectivity support

The GLC2300 is a powerful integrated HMI/PLC one box solution. This combination streamlines machine design by capitalizing on integrating information, display and control in one unit while reducing installation and long term maintenance costs. This unit is ideal for specialty OEM machines where space and costs are driving factors.

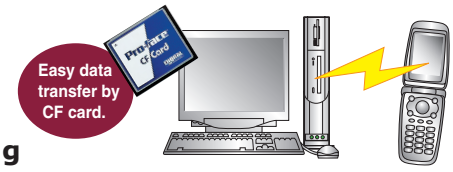
The GLC2000 family features powerful logic control algorithms including timers, counters, logical operations, mathematical, bit manipulation, etc. for precise machine control and monitoring. Additionally, expanded communications to popular industrial network interfaces are supported with optional communication modules listed in the specifications.

FEATURES

- 5.7 Inch Touch Screen
- Monochrome LCD
- 320 x 240 Resolution
- Ethernet Port (10 baseT)
- CompactFlash™ Port
- RS-232/422 Com Port
- 1 RS-232 Com Port
- 2 CH Flex Network Master Interface
- Optional Communication Module Interface

INFORMATION

Powerful secure data collection and sharing



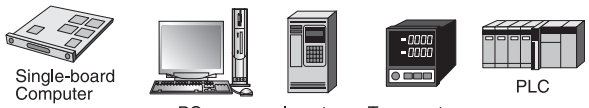
Various HMI software solutions available to match your needs:

- Advanced featured Graphics Editor for drawing objects, animation, creating pre-configured operator objects, scripting, etc.
- Recipes Trending, Data Logging, Alarm/Event Management, Security, etc.
- Software application connectivity via OPC, DDE, SQL, DLL, SMTP Email
- Data sharing via Ethernet, Internet, or CompactFlash™
- Web-enabled browser features (optional Pro-Server)

COMMUNICATION

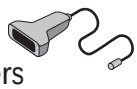
Versatile interfaces support flexible and expanding control system needs

SIO 1ch (COM1) To connect various controllers



SIO 2ch (COM2)

Serial devices, such as single or two-dimensional bar code readers



Industrial Network Connectivity (optional)

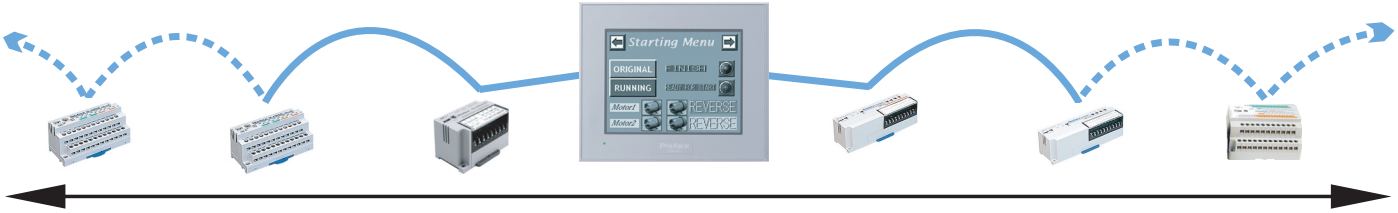
PROFIBUS (Slave or Master)
CANopen (Slave)
DeviceNet (Slave or Master)
Modbus Plus

CONTROL - DISTRIBUTED I/O MODULES FOR UP TO 1008 POINTS

GLC control features include: timers, counters, logical operations, mathematical, bit manipulation, etc.

Mix and match any combination of analog and discrete I/O modules to meet your application needs.

Flex Network Module Types:	• 8, 16, 32 and 64-Point Discrete	• 4 Ch. and 2 Ch. Analog In or Out
	• Hi-Speed Counter	• Single-Axis Positioning



(400m Max)

Please Note: Refer to the Flex Network datasheets for specifications on I/O modules.

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GLC2300L SPECIFICATIONS

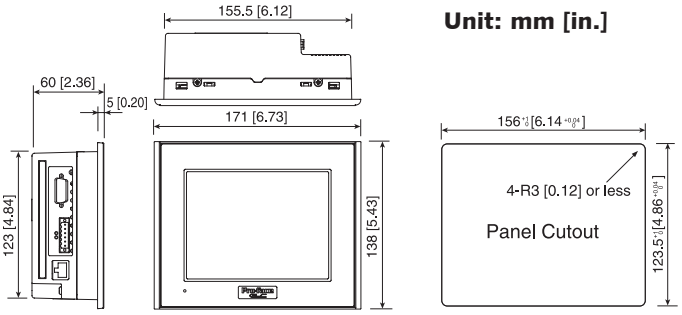
FUNCTIONAL SPECIFICATIONS

Model		GLC2300-LG41-24V
Display	Type	Monochrome LCD
	Colors	Black and White, 2 levels of gray/Black and White, 8 levels of gray (color switching done via software)
	Backlight	CCFL (average lifespan of 50,000 hours min. with continuous operation) User replaceable
	Resolution	320 x 240 pixels
	Effective Display Area (mm)	W115.2mm [4.54in.] x H86.4mm [3.40in.]
	Brightness Control	4 levels of adjustment available via touch panel
Memory	Application	2 MB FLASH FEPROM
	Data Backup	256KB SRAM - uses a lithium battery
Control Memory	Program Area	128KB FLASH EPROM
	Variable Area	32KB SRAM - uses a lithium battery
Interfaces	Serial (COM 1) Interface	RS-232C/RS-422 configurable, 25 pin D-sub, Data Transmission Speed: 2400 to 115.2 kbps
	Exp. Serial (COM 2) Interface	RS-232C, 9 pin D-sub, Data Transmission Speed: 2400 to 38.4 kbps
	Network Interface	Ethernet IEEE802.3, 10BASE-T
	Tool Connector Port	8-pin mini Din for programming/bar code reader
	CF Card Interface	1 slot (CompactFlash™)
	Expansion Interface	Yes - for optional communication modules
	Flex Network Interface	For connecting to Flex Network distributed I/O modules

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24VDC
	Rated Voltage Range	19.2VDC to 28.8VDC
	Power Consumption	22W or less
Environmental	Ambient Operating Temp.	0°C to 50°C (Operating temperature refers to the panel external - GLC unit front face - and panel internal temperatures)
	Storage Temperature	-20°C to 60°C
	Operating Humidity	10%RH to 90%RH (non-condensing, drybulb temperature: 39°C or less)
	Storage Humidity	10%RH to 90%RH (non-condensing, drybulb temperature: 39°C or less)
	Vibration Resistance	IEC61131-2 (JIS B 3501) compliant. When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s2 When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s2 X,Y, Z direction for 10 times (80min.)
Structural	Ratings	NEMA TYPE#250 Type 4 x/12 (limited to the front face after installation in a panel)
	Certifications	EN55022 Class A, EN50082-2, UL60950, UL1604, UL Class 1, Div 2
	External Dimensions	W171mm[6.73in.] x H138mm [5.43in.] x D60mm [2.36in.]
	Weight	1.2kg (2.65lb) or less (main unit only)

EXTERNAL DIMENSIONS



Unit: mm [in.]

OPTIONAL COMM. MODULES

CA1-DNSALL-21	DeviceNet Slave Interface module
CA2-DNMALL-41	DeviceNet Master Interface module
CA3-MBPALL-41	Modbus Plus interface module
CA1-PFSALL-21	Profibus DP Slave interface module
CA2-PFMALL-21	Profibus DP Master Interface module
CA1-COSALL-21	CANopen Slave Interface module
QPJ-ABD-201*	AB Data Highway Plus interface module
QPJ-ABR-201*	AB 1771 Remote I/O interface module
***PSM-CONV00**	***Required adapter when using QPJ comm. modules***

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
GLC2300-LG41-24V	5.7" Monochrome Touch Screen HMI with control

OPTIONAL ACCESSORIES

PS300-DF00	Screen protection sheets, qty 5
PS300-BU00	Backlight Replacement
GPW-CB02	Data transfer cable, GLC to PC 9-Pin RS232 D-Sub
GPW-CB03	Data transfer cable, GLC to PC USB
FN-xxxxx	Any Flex Network distributed I/O module
FN-CABLE2xxx-31-MS	Flex Network cable where xxx is 010, 050, or 200 (meters) in length

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Customer Support Hotline:
734-944-0482

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An aluminum body for superb cooling and dust resistance.

GLC2300-TC41-24V

GLC2300T - TFT Color

5.7" Color HMI with distributed I/O and industrial network connectivity support

The GLC2300 is a powerful integrated HMI/PLC one box solution. This combination streamlines machine design by capitalizing on integrating information, display and control in one unit while reducing installation and long term maintenance costs. This unit is ideal for specialty OEM machines where space and costs are driving factors.

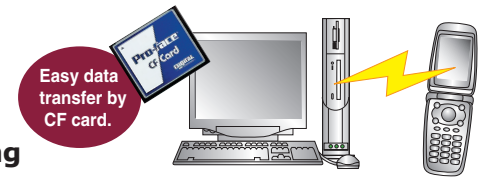
The GLC2000 family features powerful logic control algorithms including timers, counters, logical operations, mathematical, bit manipulation etc for precise machine control and monitoring. Additionally, expanded communications to popular industrial network interfaces are supported with optional communication modules listed in the specifications.

FEATURES

- 5.7 Inch Touch Screen
- TFT Color LCD
- 320 x 240 Resolution
- Ethernet Port (10 baseT)
- CompactFlash™ Port
- RS232/422 Com Port
- 1 RS232 Com Port
- 2CH Flex Network Master Interface
- Optional Communication Module Interface

INFORMATION

Powerful secure data collection and sharing



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- Advanced featured Graphics Editor for drawing objects, animation, creating pre-configured operator objects, scripting, etc.
- Recipes Trending, Data Logging, Alarm/Event Management, Security, etc.
- Software application connectivity via OPC, DDE, SQL, DLL, SMTP Email
- Data Sharing via Ethernet, Internet, or CompactFlash™
- Web-enabled browser features (optional Pro-Server)

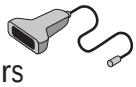
COMMUNICATION

Versatile interfaces support flexible and expanding control system needs

SIO 1ch (COM1) To connect various controllers

SIO 2ch (COM2)

Serial devices, such as single or two-dimensional bar code readers



Industrial Network Connectivity (optional)

PROFIBUS (Slave or Master)
CANopen (Slave)
DeviceNet (Slave or Master)
Modbus Plus

CONTROL - DISTRIBUTED I/O MODULES FOR UP TO 1008 POINTS

GLC control features include: timers, counters, logical operations, mathematical, bit manipulation, etc.

Mix and match any combination of analog and discrete I/O modules to meet your application needs.

Flex Network Module Types:	• 8, 16, 32 and 64-Point Discrete	• 4 Ch. and 2 Ch. Analog In or Out
	• Hi-Speed Counter	• Single-Axis Positioning

(400m Max)

Please Note: Refer to the Flex Network datasheets for specifications on I/O modules.

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GLC2300T SPECIFICATIONS

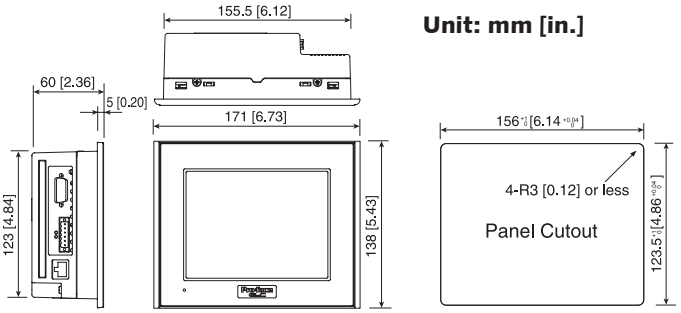
FUNCTIONAL SPECIFICATIONS

Model		GLC2300-TC41-24V
Display	Type	TFT Color LCD
	Colors	256 colors, No blink/64 colors, 3-speed blink (Color switching is done via software)
	Backlight	CCFL (average lifespan of 50,000 hours min. with continuous operation)
	Resolution	320 x 240 pixels
	Effective Display Area (mm)	W115.2mm [4.54in.] x H86.4mm [3.40in.]
	Brightness Control	4 levels of adjustment available via touch panel
Memory	Application	2 MB FLASH FEPROM
	Data Backup	256KB SRAM - uses a lithium battery
Control Memory	Program Area	128KB FLASH EPROM
	Variable Area	32KB SRAM - uses a lithium battery
Interfaces	Serial (COM 1) Interface	RS-232C/RS-422 configurable, 25 pin D-sub, Data Transmission Speed: 2400 to 115.2 kbps
	Exp. Serial (COM 2) Interface	RS-232C, 9 pin D-sub, Data Transmission Speed: 2400 to 38.4 kbps
	Network Interface	Ethernet IEEE802.3, 10BASE-T
	Tool Connector Port	8-pin mini Din for programming/bar code reader
	CF Card Interface	1 slot (CompactFlash™)
	Expansion Interface	Yes - for optional communication modules
	Sound	n/a
	Flex Network Interface	For connecting to Flex Network distributed I/O modules

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24VDC
	Rated Voltage Range	19.2VDC to 28.8VDC
	Power Consumption	22W or less
Environmental	Ambient Operating Temp.	0°C to 50°C (Operating temperature refers to the panel external - GLC unit front face - and panel internal temperatures)
	Storage Temperature	-20°C to 60°C
	Operating Humidity	10%RH to 90%RH (non-condensing, drybulb temperature: 39°C or less)
	Storage Humidity	10%RH to 90%RH (non-condensing, drybulb temperature: 39°C or less)
	Vibration Resistance	IEC61131-2 (JIS B 3501) compliant. When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s^2 When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s^2 X,Y, Z direction for 10 times (80min.)
Structural	Ratings	NEMA TYPE#250 Type 4 x/12 (limited to the front face after installation in a panel)
	Certifications	EN55022 Class A, EN50082-2, UL60950, UL Class 1, Div 2
	External Dimensions	W171mm[6.73in.] x H138mm [5.43in.] x D60mm [2.36in.]
	Weight	1.2kg (2.65lb) or less (main unit only)

EXTERNAL DIMENSIONS



Unit: mm [in.]

OPTIONAL COMM. MODULES

CA1-DNSALL-21	DeviceNet Slave Interface module
CA2-DNMALL-41	DeviceNet Master Interface module
CA3-MBPALL-41	Modbus Plus interface module
CA1-PFSALL-21	Profibus DP Slave interface module
CA2-PFMALL-21	Profibus DP Master Interface module
CA1-COSALL-21	CANopen Slave Interface module
QPJ-ABD-201*	AB Data Highway Plus interface module
QPJ-ABR-201*	AB 1771 Remote I/O interface module
***PSM-CONV00**	***Required adapter when using QPJ comm. modules***

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
GLC2300-TC41-24V	5.7" Color Touch Screen HMI with control

OPTIONAL ACCESSORIES

PS300-DF00	Screen protection sheets, qty 5
PS300-BU00	Backlight Replacement
GPW-CB02	Data transfer cable, GLC to PC 9-Pin RS232 D-Sub
GPW-CB03	Data transfer cable, GLC to PC USB
FN-xxxxx	Any Flex Network distributed I/O module
FN-CABLE2xxx-31-MS	Flex Network cable where xxx is 010, 050, or 200 (meters) in length

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GLC2400T - TFT Color

7.4" Color HMI with distributed I/O and industrial network connectivity support

The GLC2400 is a powerful integrated HMI/PLC one box solution. This combination streamlines machine design by capitalizing on integrating information, display and control in one unit while reducing overall system costs. Unit includes bar code reader support, a sound output for audio machine feedback and printer output for report generation.

The GLC2000 family features powerful logic control algorithms including timers, counters, logical operations, mathematical, bit manipulation etc for precise machine control and monitoring. Additionally, expanded communications to popular industrial network interfaces are supported with optional communication modules listed in the specifications.

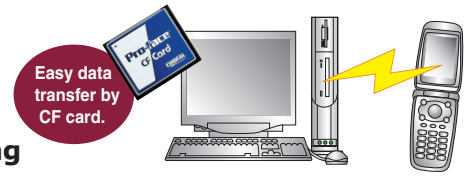
GLC2400-TC41-24V

FEATURES

- 7.4 inch touch screen
- TFT 256 Color LCD
- 640 x 480 resolution
- RS-232/422 Com Ports
- Ethernet Port (10 baseT)
- CompactFlash™ Port
- Sound Output
- 2CH Flex Network Master Interface
- Optional Communication Module Interface

INFORMATION

Powerful secured data collection and sharing



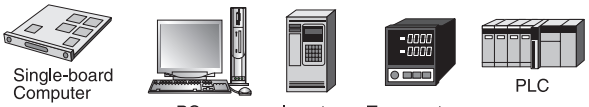
Various HMI software solutions available to match your needs:

- Advanced featured Graphics Editor for drawing objects, animation, creating pre-configured operator objects, scripting, etc.
- Recipes Trending, Data Logging, Alarm/Event Management, Security, etc.
- Software application connectivity via OPC, DDE, SQL, DLL, SMTP Email
- Data sharing via Ethernet, Internet, or CompactFlash™
- Web-enabled browser features (optional Pro-Server)

COMMUNICATION

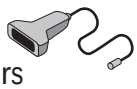
Versatile interfaces support flexible and expanding control system needs

SIO 1ch (COM1) To connect various controllers



SIO 2ch (COM2)

Serial devices, such as single or two-dimensional bar code readers



Industrial Network Connectivity (optional)

PROFIBUS (Slave or Master)
CANopen (Slave)
DeviceNet (Slave or Master)
Modbus Plus

CONTROL - DISTRIBUTED I/O MODULES FOR UP TO 1008 POINTS

GLC control features include: timers, counters, logical operations, mathematical, bit manipulation, etc.
Mix and match any combination of analog and discrete I/O modules to meet your application needs.

Flex Network Module Types:		
	• 8, 16, 32 and 64-Point Discrete	• 4 Ch. and 2 Ch. Analog In or Out
	• Hi-Speed Counter	• Single-Axis Positioning

(400m Max)

Please Note: Refer to the Flex Network datasheets for specifications on I/O modules.

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GLC2400T SPECIFICATIONS

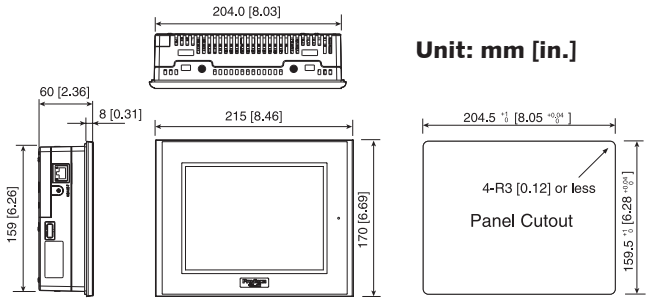
FUNCTIONAL SPECIFICATIONS

Model		GLC2400-TC41-24V
Display	Type	TFT Color LCD
	Colors	256 colors, No blink/64 colors, 3-speed blink (Color switching is done via software)
	Backlight	CCFL (Service life: 50,000 hrs. or more at 25°C and 24 hrs. operation) User replaceable
	Resolution	640 x 480 pixels
	Effective Display Area (mm)	W149.8mm [5.90in.] x H184.5mm [4.42in.]
	Brightness Control	4 levels of adjustment available via touch panel
Memory	Application	4MB FLASH FEPROM (Approx. 1280 screens at 3.2KB/screen)
	Data Backup	256KB SRAM - uses a lithium battery
Control Memory	Program Area	128KB FLASH EPROM
	Variable Area	32KB SRAM - uses a lithium battery
Interfaces	Serial (COM 1) Interface	RS-232C/RS-422 configurable, 25 pin D-sub, Data Transmission Speed: 2400 to 115.2 kbps
	Exp. Serial (COM 2) Interface	RS-232C, 9 pin D-sub, Data Transmission Speed: 2400 to 38.4 kbps
	Network Interface	Ethernet IEEE802.3 10BASE-T
	Tool Connector Port	8-pin mini Din for programming/bar code reader
	CF Card Interface	1 slot (CompactFlash™)
	Expansion Interface	Yes - for optional communication modules
	Sound	External Speaker Connection (Terminal Block) Monaural 1CH. Sound line out output 2.7Vp-p (Rated Load: 10kOhm). Speaker Output 70mW (Rated Load: 8 Ohm, Frequency: 1kHz). Recommended Wire: AWG#28 to #16
	Flex Network Interface	For connecting to Flex Network distributed I/O modules

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24VDC
	Rated Voltage Range	19.2VDC to 28.8VDC
	Power Consumption	28W or less
Environmental	Ambient Operating Temp.	0°C to 50°C
	Storage Temperature	-20°C to 60°C
	Operating Humidity	10%RH to 90%RH (non-condensing, drybulb temperature: 30°C or less)
	Storage Humidity	10%RH to 90%RH (non-condensing, drybulb temperature: 30°C or less)
	Vibration Resistance	IEC61131-2 (JIS B 3501) compliant. When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s^2 When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s^2 X,Y, Z direction for 10 times (80min.)
Structural	Ratings	NEMA TYPE#250 Type 4 x/12 (limited to the front face after installation in a panel)
	Certifications	EN55011, EN61000-6-2, UL/cUL 1604, Class 1, Div 2
	External Dimensions	W215mm[8.46in.] x H170mm [6.69in.] x D60mm [2.36in.] (main unit only)
	Weight	1.7kg (3.7lb) or less (main unit only)

EXTERNAL DIMENSIONS



Unit: mm [in.]

OPTIONAL COMM. MODULES

CA1-DNSALL-21	DeviceNet Slave Interface module
CA2-DNMALL-41	DeviceNet Master Interface module
CA3-MBPALL-41	Modbus Plus interface module
CA1-PFSALL-21	Profibus DP Slave interface module
CA2-PFMALL-21	Profibus DP Master Interface module
CA1-COSALL-21	CANopen Slave Interface module
QPI-ABD-201*	Data Highway Plus interface module
QPI-ABR-201*	AB 1771 Remote I/O interface module
***PSL-CONV00**	***Required adapter when using QPI communication modules***

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
GLC2400-TC41-24V	7.4" Color Touch Screen HMI with control

OPTIONAL ACCESSORIES

PS400-DF00	Screen protection sheets, qty 5
PS400-BU00-MS	Backlight Replacement
GPW-CB02	Data transfer cable, GLC to PC 9-Pin RS232 D-Sub
GPW-CB03	Data transfer cable, GLC to PC USB
FN-xxxxx	Any Flex Network distributed I/O module
FN-CABLE2xxx-31-MS	Flex Network cable where xxx is 010, 050, or 200 (meters) in length

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XYCOM™ a PRO-FACE America Company

GLC2500T - TFT Color

10.4" HMI with distributed I/O, video and industrial network connectivity support

The GLC2500 is a powerful integrated HMI/PLC one box solution. The GLC2500 unit supports the optional 4 channel video module providing on-site machine monitoring and surveillance. Combined with bar code reader support, audio output and printer output for report generation, the GLC2500 is an impressive full-featured operator interface and controller HMI solution.

The GLC2000 family features powerful logic control algorithms including timers, counters, logical operations, mathematical, bit manipulation etc for precise machine control and monitoring. Additionally, expanded communications to popular industrial network interfaces are supported with optional communication modules listed in the specifications.

GLC2500-TC41-200V

GLC2500-TC41-24V

FEATURES

- 10.4 inch touch screen
- TFT 256 Color LCD
- 640 x 480 resolution
- Ethernet Port (10 baseT)
- CompactFlash™ Port
- RS232/422 Com Ports
- Video Input and Sound Output Support
- 2CH Flex Network Master Interface
- Optional Communication Module Interface

INFORMATION

Powerful secured data collection and sharing

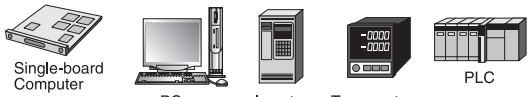
Various HMI software solutions available to match your needs:

- Advanced featured Graphics Editor for drawing objects, animation, creating pre-configured operator objects, scripting, etc.
- Recipes Trending, Data Logging, Alarm/ Event Management, Security, etc.
- Software application connectivity via OPC, DDE, SQL, DLL, SMTP Email
- Data sharing via Ethernet, Internet, or CompactFlash™
- Web-enabled browser features (optional Pro-Server)

COMMUNICATION

Versatile interfaces support flexible and expanding control system needs

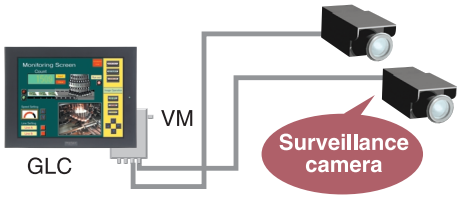
SIO 1ch (COM1) To connect various controllers



SIO 2ch (COM2)

Serial devices, such as single or two-dimensional bar code readers

Optional Video Mix Unit: add up to 4 cameras for remote monitoring.



Video images provide virtual on-site monitoring of line conditions.

CONTROL - DISTRIBUTED I/O MODULES FOR UP TO 1008 POINTS

GLC control features include: timers, counters, logical operations, mathematical, bit manipulation, etc.

Mix and match any combination of analog and discrete I/O modules to meet your application needs.

Flex Network Module Types:	• 8, 16, 32 and 64-Point Discrete • Hi-Speed Counter	• 4 Ch. and 2 Ch. Analog In or Out • Single-Axis Positioning

(400m Max)

Please Note: Refer to the Flex Network datasheets for specifications on I/O modules.

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GLC2500T-24V/200V SPECIFICATIONS

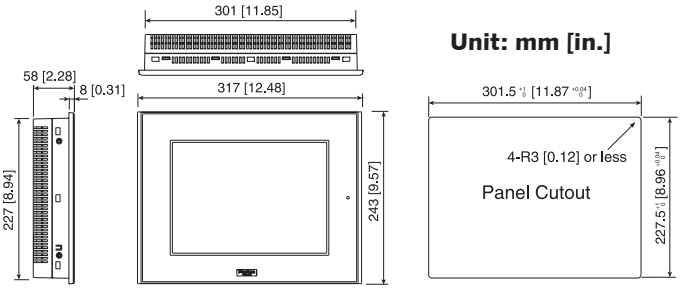
FUNCTIONAL SPECIFICATIONS

Models		GLC2500-TC41-24V	GLC2500-TC41-200V
Display	Type	TFT Color LCD	
	Colors	256 colors, No blink/64 colors, 3-speed blink (Color switching is done via software)	
	Backlight	CCFL (Service life: 50,000 hrs. or more at 25°C and 24 hrs. operation) User replaceable	
	Resolution	640 x 480 pixels	
	Effective Display Area (mm)	W211.2mm [8.31in.] x H158.4mm [6.24in.]	
	Brightness Control	4 levels of adjustment available via touch panel	
Memory	Application	4MB FLASH FEPROM (Approx. 1280 screens at 3.2KB/screen)	
	Data Backup	256KB SRAM - uses a lithium battery	
Control Memory	Program Area	128KB FLASH EPROM	
	Variable Area	32KB SRAM - uses a lithium battery	
Interfaces	Serial (COM 1) Interface	RS-232C/RS-422 configurable, 25 pin D-sub, Data Transmission Speed: 2400 to 115.2 kbps	
	Exp. Serial (COM 2) Interface	RS-232C, 9 pin D-sub, Data Transmission Speed: 2400 to 38.4 kbps	
	Network Interface	Ethernet IEEE802.3 10BASE-T	
	Tool Connector Port	8-pin mini Din for programming/bar code reader	
	CF Card Interface	1 slot (CompactFlash™)	
	Expansion Interface	Yes - for optional communication modules	
	Sound	External Speaker Connection (Terminal Block) Monaural 1CH, Speaker Output 70mW (Rated Load: 8 Ohm, Frequency: 1kHz), Sound Line Out Output 2.7Vp-p (Rated Load: 10k Ohm), Recommended Wire: AWG#28 to #16	
	Flex Network Interface	For connecting to Flex Network distributed I/O modules	

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24VDC	100VAC to 240VAC
	Rated Voltage Range	19.2VDC to 28.8VDC	85VAC to 265VAC
	Power Consumption	50W or less, 50VA or less (AC in 100V), 85VA or less (AC in 240V)	
Environmental	Ambient Operating Temp.	0°C to 50°C	
	Storage Temperature	-20°C to 60°C	
	Operating Humidity	10%RH to 90%RH (non-condensing, drybulb temperature: 39°C or less)	
	Storage Humidity	10%RH to 90%RH (non-condensing, drybulb temperature: 39°C or less)	
	Vibration Resistance	IEC61131-2 (JIS B 3501) compliant. When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s^2 When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s^2 X,Y, Z direction for 10 times (80min.)	
Structural	Ratings	NEMA TYPE#250 Type 4 x/12 (limited to the front face after installation in a panel)	
	Certifications	CE, UL 508, UL 1604, Class 1, Div 2	CE, UL 60950, UL 1604, Class 1, Div 2
	External Dimensions	W317mm[12.48in.] x H243mm [9.57in.] x D58mm [2.28in.] (main unit only)	
	Weight	3.5kg (7.72lb) or less (main unit only)	

EXTERNAL DIMENSIONS



OPTIONAL COMM. MODULES

CA1-DNSALL-21	DeviceNet Slave Interface module
CA2-DNMALL-41	DeviceNet Master Interface module
CA3-MBPALL-41	Modbus Plus interface module
CA1-PFSALL-21	Profibus DP Slave interface module
CA2-PFMALL-21	Profibus DP Master Interface module
CA1-COSALL-21	CANopen Slave Interface module
QPI-ABD-201*	Data Highway Plus interface module
QPI-ABR-201*	AB 1771 Remote I/O interface module
***PSL-CONV00**	***Required a dapter when using QPI comm. modules***

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
GLC2500-TC41-24V	10.4" Color TFT touch screen, 24VDC powered HMI with control
GLC2500-TC41-200V	10.4" Color TFT touch screen, Universal AC powered HMI with control
OPTIONAL ACCESSORIES	
PSL-DF00	Screen protection sheets, qty 5
GP577RT-BL00-MS	Backlight Replacement
GPW-CB02	Data transfer cable, GLC to PC 9-Pin RS232 D-Sub
GPW-CB03	Data transfer cable, GLC to PC USB
FN-xxxxx	Any Flex Network distributed I/O module
FN-CABLE2xxx-31-MS	Flex Network cable where xxx is 010, 050, or 200 (meters) in length

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734-429-4971
Fax: 734-429-1010
http://www.xycom.com

Customer Support Hotline:
734-944-0482

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GLC2600T - TFT Color

12.1" HMI with distributed I/O, video and industrial network connectivity support

The GLC2600 is a powerful integrated HMI/PLC one box solution. This unit supports the optional 4 channel video module providing on-site machine monitoring and surveillance. Combined with bar code reader support, audio output and printer output for report generation, the GLC2600 is an impressive full-featured operator interface and controller HMI solution.

The GLC2000 family features powerful logic control algorithms including timers, counters, logical operations, mathematical, bit manipulation etc for precise machine control and monitoring. Additionally, expanded communications to popular industrial network interfaces are supported with optional communication modules listed in the specifications.

GLC2600-TC41-200V

GLC2600-TC41-24V

FEATURES

- 12.1 inch touch screen
- TFT 256 Color LCD
- 800 x 600 resolution
- Ethernet Port (10 baseT)
- CompactFlash™ Port
- RS232/422 Com Ports
- Printer Interface, Narrow-pitch D-sub
- Video Input and Sound Output support
- 2CH Flex Network Master Interface

INFORMATION

Powerful secured data collection and sharing

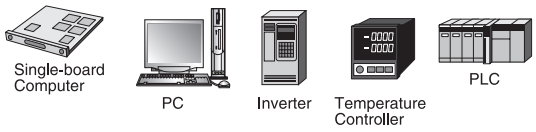
Various HMI software solutions available to match your needs:

- Advanced featured Graphics Editor for drawing objects, animation, creating pre-configured operator objects, scripting, etc.
- Recipes Trending, Data Logging, Alarm/ Event Management, Security, etc.
- Software application connectivity via OPC, DDE, SQL, DLL, SMTP Email
- Data sharing via Ethernet, Internet, or CompactFlash™
- Web-enabled browser features (optional Pro-Server)

COMMUNICATION

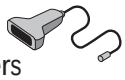
Versatile interfaces support flexible and expanding control system needs

SIO 1ch (COM1) To connect various controllers

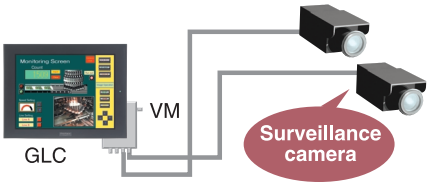


SIO 2ch (COM2)

Serial devices, such as single or two-dimensional bar code readers



Optional Video Mix Unit: add up to 4 cameras for remote monitoring.



Video images provide virtual on-site monitoring of line conditions.

CONTROL - DISTRIBUTED I/O MODULES FOR UP TO 1008 POINTS

GLC control features include: timers, counters, logical operations, mathematical, bit manipulation, etc.

Mix and match any combination of analog and discrete I/O modules to meet your application needs.

Flex Network Module Types:		
	• 8, 16, 32 and 64-Point Discrete	• 4 Ch. and 2 Ch. Analog In or Out
	• Hi-Speed Counter	• Single-Axis Positioning

Please Note: Refer to the Flex Network datasheets for specifications on I/O modules.

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GLC2600T SPECIFICATIONS

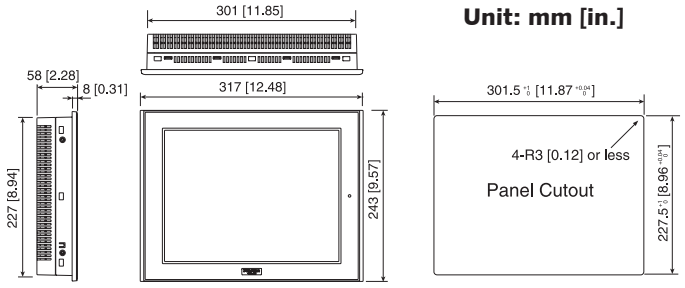
FUNCTIONAL SPECIFICATIONS

Models		GLC2600-TC41-24V	GLC2600-TC41-200V
Display	Type	TFT Color LCD	
	Colors	256 colors, No blink/64 colors, 3-speed blink (Color switching is done via software)	
	Backlight	CCFL (Service life: 50,000 hrs. or more at 25°C and 24 hrs. operation) User replaceable	
	Resolution	800 x 600 pixels	
	Effective Display Area	W246.0mm [9.69in.] x H184.5mm [7.27in.]	
	Brightness Control	4 levels of adjustment available via touch panel	
Memory	Application	4 MB FLASH FEPROM (Approx. 1280 screens at 3.2KB/screen)	
	Data Backup	256KB SRAM - uses a lithium battery	
Control Memory	Program Area	128KB FLASH EPROM	
	Variable Area	64KB SRAM - uses a lithium battery	
Interfaces	Serial (COM 1)	RS-232C/RS-422 configurable, 25 pin D-sub, Data Transmission Speed: 2400 to 115.2 kbps	
	Expansion Serial (COM 2)	RS-232C, 9 pin D-sub, Data Transmission Speed: 2400 to 38.4 kbps	
	Ethernet Interface	IEEE802.3 10BASE-T	
	CF Card Interface	1 slot (CompactFlash™)	
	Tool Connector Port	8-pin mini Din for programming, or barcode reader	
	Expansion Interface	Yes - for optional communication modules	
	Sound Output	External Speaker Connection (Terminal Block), Monaural 1CH - Sound line out output 2.7p-p (Rated load 10kOHM). Speaker Output 70mW (Rated Load: 8OHM frequency: 1kHz)	
	Flex Network Interface	For connecting to flex network distributed I/O modules	

GENERAL SPECIFICATIONS

Electrical	Input Voltage	24VDC	100VAC TO 240VAC
	Rated Voltage	19.2VDC to 28.8VDC	85VAC TO 265VAC
	Power Consumption	50W or less	50VAC or less when 100VAC in. 85VAC or less when 240VAC in.
Environmental	Ambient Operating Temperature	0°C to 50°C	
	Storage Temperature	-20°C to 60°C	
	Operating Humidity	10%RH to 90%RH (non-condensing, drybulb temperature: 39°C or less	
	Storage Humidity	10%RH to 90%RH (non-condensing, drybulb temperature: 39°C or less	
	Vibration Resistance	IEC61131-2 (JIS B 3501) compliant. When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s^2 When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s^2 X,Y, Z direction for 10 times (80min.)	
Structural	Ratings	NEMA TYPE#250 Type 4 x/12 (limited to the front face after installation in a panel)	
	Certifications	EN55011 Class A, EN61000-6-2, UL 508, UL 1604, Class 1, Div 2	
	External Dimensions	W317mm[12.48in.] x H243mm [9.57in.] x D58mm [2.28in.] (main unit only)	
	Weight	3.5kg (7.72lb) or less (main unit only)	

EXTERNAL DIMENSIONS



OPTIONAL COMM. MODULES

CA1-DNSALL-21	DeviceNet Slave Interface module
CA2-DNMALL-41	DeviceNet Master Interface module
CA3-MBPALL-41	Modbus Plus interface module
CA1-PFSALL-21	Profibus DP Slave interface module
CA2-PFMALL-21	Profibus DP Master Interface module
CA1-COSALL-21	CANopen Slave Interface module
QPI-ABD-201*	Data Highway Plus interface module
QPI-ABR-201*	AB 1771 Remote I/O interface module
***PSL-CONV00**	***Required adapter when using QPI comm. modules***

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
GLC2600-TC41-24V	12.1" Color TFT, 24VDC powered HMI with control
GLC2600-TC41-200V	12.1" Color TFT, Universal AC powered HMI with control
OPTIONAL ACCESSORIES	
PSL-DF00	Screen protection sheets, qty 5
PS600-BU00-MS	Backlight Replacement
GPW-CB02	Data transfer cable, GLC to PC 9-Pin RS232 D-Sub
GPW-CB03	Data transfer cable, GLC to PC USB
FN-xxxxx	Any Flex Network distributed I/O module
FN-CABLE2xxx-31-MS	Flex Network cable where xxx is 010, 050, or 200 (meters) in length

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LT3201-A1-D24-K
LT3201-A1-D24-C

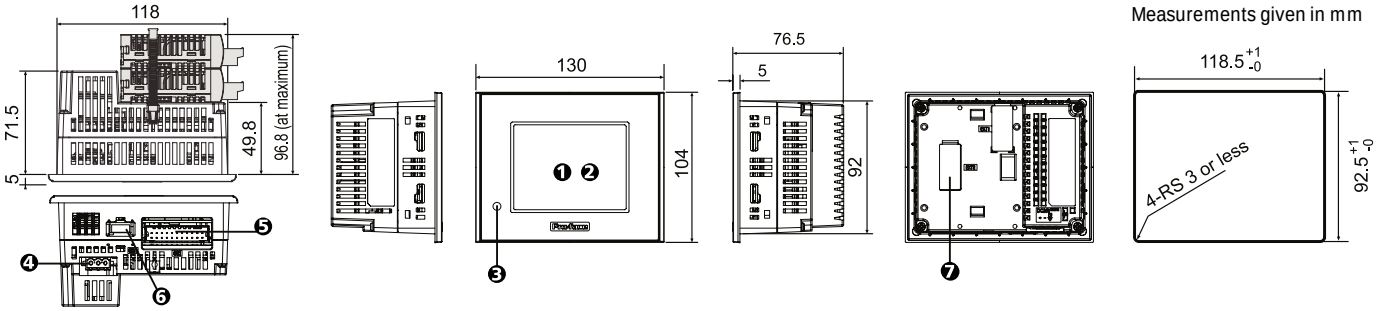
CE UL cUL RoHS

3.8" Operator Interface Plus Control

Stand Alone Graphic Controller

- 3.8-inch Amber/Red LCD display, 320 × 240 resolution, QVGA
- Built-in logic programming to create simple to complex machine operations
- Display both graphical images and text data on same screen or menu driven screens
- Built-in 12 discrete inputs, 6 discrete outputs logic controlled
- All-in-one HMI plus control solution reduces wiring, system cost, maintenance cost and saves space
- I/O expansion capability, mix and match any two EX analog or discrete I/O modules to fit your machine requirements

PRODUCT OVERVIEW



❶ **Display**

❷ **Touch Panel**

❸ **Status LED**

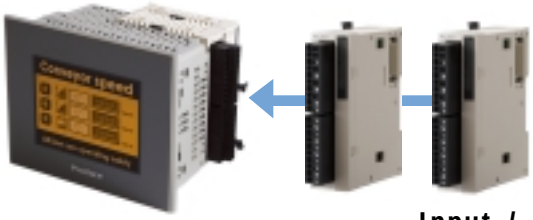
❹ **Power Supply Connector**
Power is connected via Pluggable terminal block.

❺ **DIO Interface (DIO)**
Built-in 12 Discrete inputs, 6 Discrete outputs.

❻ **USB Interface (Host)**
Conforms to USB 1.1. (TYPE-A conn.) for data transfer cable, USB-compatible printer, or barcode reader, etc. The maximum communication distance is 5m.

❼ **Aux Unit Interface**
Expanded communications interface not used.

LT UNIT WITH EX MODULE FAMILY



Mix and Match Any Two Modules

Input I/O modules

EXM-DDI8DT	8-point sink/source shared I/O Unit, DC24V input signal can be connected
EXM-DDI16DT	16-point sink/source shared I/O Unit, DC24V input signal can be connected

Ouput I/O modules

EXM-DRA8RT	8-point relay output with 2 commons I/O Unit
EXM-DRA16RT	16-point relay output with 2 commons I/O Unit
EXM-DDO8UT	8-point transistor output sink I/O Unit
EXM-DDO16UK	16-point transistor output sink I/O Unit
EXM-DDO8TT	8-point transistor output source I/O Unit
EXM-DDO16TK	16-point transistor output source type I/O unit

Input / Ouput Mixed I/O modules

EXM-DMM8DRT	4-point input sink-source, 4-point relay output with single common

Analog I/O modules

EXM-AMI2HT	2-point analog input type
EXM-ALM3LT	2-point temperature input / 1-point analog type
EXM-AMM3HT	2-point analog input / 1-point analog output type
EXM-AMO1HT	1-point analog output type

For more information see EX-Module Datasheet

Pro-face

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LT SERIES CONTINUED

INTEGRATED MONITOR CONTROL

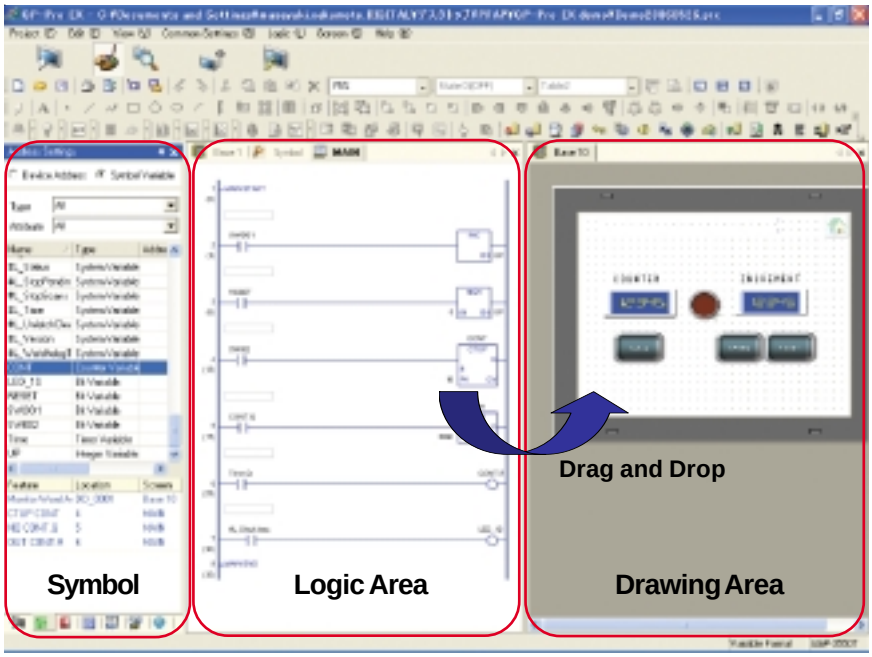
ONLINE LOGIC PROGRAM MONITORING FEATURE

Detect Problems Faster

- View logic Programming on HMI while running. "No need for a laptop!"
- Verify current values of all variables live
- Quickly identify sequential logic faults
- Helps optimize Programming & Processes
- View logic in English or Japanese

POWERFUL LOGIC PROGRAMMING

With GP-Pro EX, you can develop logic programs as well as screen creation. You can also import existing logic programs created with the GP-PRO/PBIII C-Package.



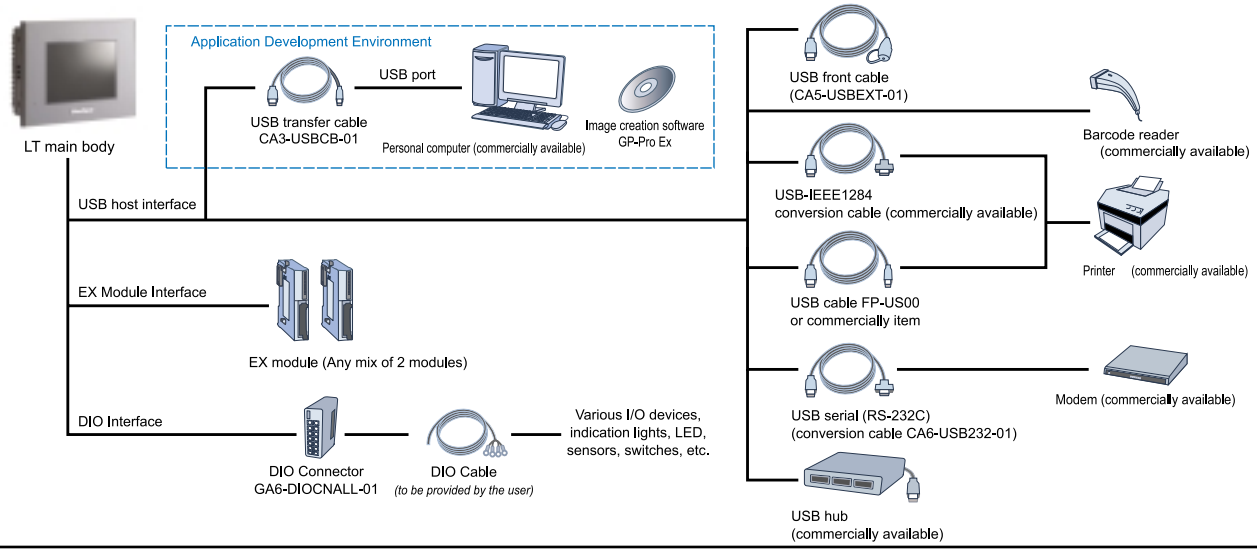
Time Saving Steps

Drag and Drop
Drag contact or coil to quickly create a graphical switch or lamp.

Re-usable sub-routines
Reduce steps for product programming development and maintenance using sub-routines.

Screen Editor GP-Pro EX

SYSTEM CONFIGURATION CHART



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LT SERIES SPECIFICATIONS

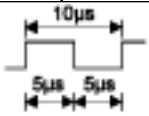
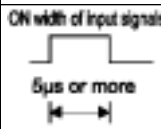
FUNCTIONAL SPECIFICATIONS

Model		LT3201-A1-D24-K	LT3201-A1-D24-C
Display	Type	Amber/Red LCD	
	Colors	Black and White (8 Shades)	
	Backlight	LED backlight maintenance free	
	Resolution	320 x 240 pixels	
	Brightness Control	8 levels of adjustment available via touch panel	
	Touch Panel	Resistive film analog 1024 x 1024 resolution	
	Effective Display Area (mm)	W78.8mm [3.01in.] x H59.6mm [2.35in.]	
	Contrast Control	8 levels of adjustment available via touch panel	
	Character Sizes	8x8, 8x16, 16x16, 32x32 dot fonts	
Memory	Application	FLASH EPROM 6MB Data Backup	
	Data Backup	SRM 128 kb	
Interfaces	Aux Interface /scalable unit	Special purpose interface (for external purposes)	
	EX Module Interface	Interface up to two Pro-face EX modules (Any mix)	
	USB Interface	USB port 1.1, Host I/F, USB TYPE-A connector	
	DIO Interface	input: 12 discrete points ouput: Sink-type 6 discrete points	Input: 12 discrete points output: Source-type 6 discrete points

GENERAL SPECIFICATIONS

Electrical	Rated Voltage	24V DC
	Rated Voltage Range	19.2V DC to 28.8V DC
	Power Consumption	20W or less 18W (max)
Environmental	Ambient Operating Temp.	0°C (32°F) to 50°C (122°F)
	Storage Temperature	-20°C (-4°F) to 60°C (140°F)
	Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C (102°F) or less)
	Altitude Operation	800 hPa to 1,1114 hPa (2000 meters or lower)
	Vibration & Shock Resistance	IEC61131-2 compliant 5 to 9Hz single-amplitude 3.5mm 9 to 150Hz constant-accelerated velocity 9.8m/s2 X, Y, Z directions for 10 cycle (100 minute)
	Ratings	Equivalent to IP65, Nema #250 Type 4x/13 (front surface when panel is embedded)
Structural	Certifications	CE, UL, cUL Listed Cl 1 Div 2, ROHS compliant
	External Dimensions	W130mm[5.1in.] x H104mm [4.1in.] x D76.5mm [3.01in.]
	Weight	1.0kg (2.2lb) or less (main body only)

HIGH-SPEED COUNTER SPECIFICATIONS

	Counter		Pulse Catcher
Input	24V DC Open collector		24V DC Open collector
	Single phase (4 points)	Double phase (1 or 2 points)	
Usable inputs	CTO (INO), CTO1 (IN2), CT2 (IN4), CT3 (IN6) *(according to user setting)*	Use CTO (INO) and CTO1 (IN2) in pairs, CTO: Phase A, CT1: phase B, Use CT2 (IN4), CT3 (IN6) in pairs, CT2: Phase A, CT3: phase B *(according to user setting)*	(INO), (IN2), (IN4), (IN6) *(according to user setting)*
Minimum pulse width (pulse input)			
Count speed (startup and fall time)			-
Phase	1 phase	90° phase difference, 2 phase signal, 1 phase + direction indication signal	-
Maximum counting freq	100 Kpps	50 Kpps	-
Count edge designation	Available	Not available	-

HIGH-SPEED COUNTER SPECIFICATIONS (cont)

	Counter		Pulse Catcher
Counting registration	32-bit UP/DOWN counter		-
Counter /mode changeover	Set up using the software		-
Setting upper limit/ lower limit	Not possible		-
Preload/ prestrobe	Possible		-
Marker input (clearing counter value)	-	IN3, IN7	-

PULSE / PWM OUTPUT SPECIFICATIONS

	Pulse Output	PWM Output
Outputs	4 points	
Specified Possible Outputs	PLS0 to PLS3 (OUT0 to OUT3) *depending on user setting*	PWM to PWM3 (OUT0 to OUT3) *depending on user setting*
Voltage Load	24V DC	
Minimum Load Current	1mA	
Maximum Freq	Possible to use up to 65 HX per point (set up using the Output software) Varies depending on high-speed counter and pulse output CH number	
Pulse Acceleration	Possible	Not possible
ON Duty	50% ± 10% (when 65 kHz)	19% to 8% (at 65 kHz)

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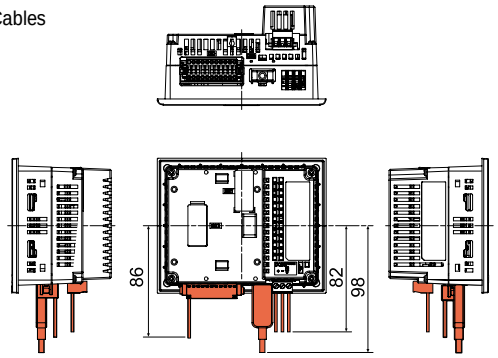
LT SERIES SPECIFICATIONS

COMPATIBILITY AND ORDERING INFORMATION

LT SERIES WITH CABLES DIMENSIONS

External View with Cables



Measurements given in mm

CUTOUT COMPATIBILITY

16 Years of Cut-Out Compatibility

Old model

Panel cutout dimensions

AGP3000 model

Investment Protection

Size / Series name	118.5x92.5mm mm
ST40X Series	ST400, ST401, ST402, ST403 Series
AGP3000 Series	LT3201 Series

SOFTWARE COMPATIBILITY

POWERED BY:

Screen Editor GP-Pro EX

HMI Development Software (V2.0 or higher)

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
LT3201-A1-D24-K	3.8" Amber/Red LCD, HMI plus Control with Discrete I/O (Sink), 24VDC
LT3201-A1-D24-C	3.8" Amber/Red LCD, HMI plus Control with Discrete I/O (Source), 24VDC

OPTIONAL ACCESSORIES

CA3-USBCB-01	USB download cable, PC USB port to AGP USB port
CA6-DFS04-01	Screen protection sheets qty 5
I/O Expansion	See EX module data sheet for list of available modules
Other Options	*See AGP3000 Connectivity Document*

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Customer Support Hotline:
734-944-0482

Pro-face

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