Pro-face®

AGP3000 Series:

Advanced Operator Interfaces for the Competitive Edge

xycom.com

CELEBRATING
35 Years
of Industrial
Automation
Solutions

Pro-face® XYCOM™

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.

AGP3000 Series

AGP3000 Series models configured with ONE software package...

Screen Editor GP-Pro EX

Advanced operator interfaces for the competitive edge

AGP 3600 Series
12.1"

AGP 3700 Series
15"

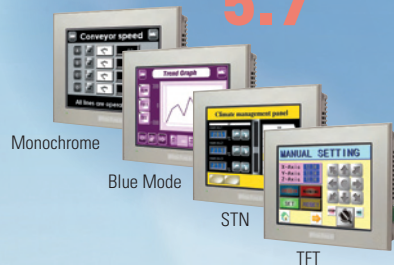Multimedia

TFT

Multimedia TFT

AGP 3500 Series
10.4"
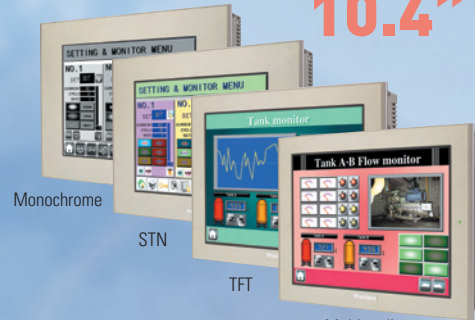
Monochrome

STN

TFT

Multimedia

AGP 3300 Series
5.7"

Screen Editor
GP-Pro EX

Intuitive HMI development environment supporting all AGP3000 units

AGP 3400 Series
7.5"

Monochrome

Blue Mode

STN

TFT
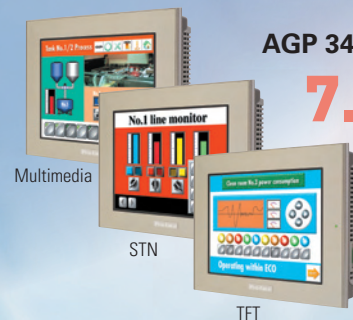
Multimedia

STN

TFT

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

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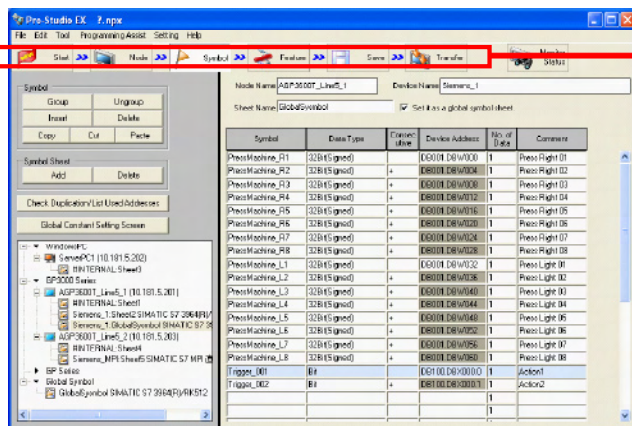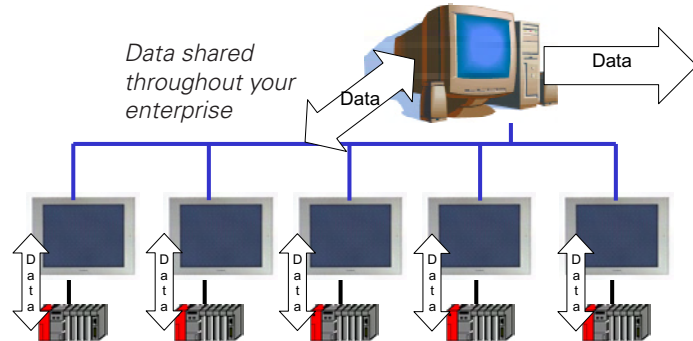
Data management software

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
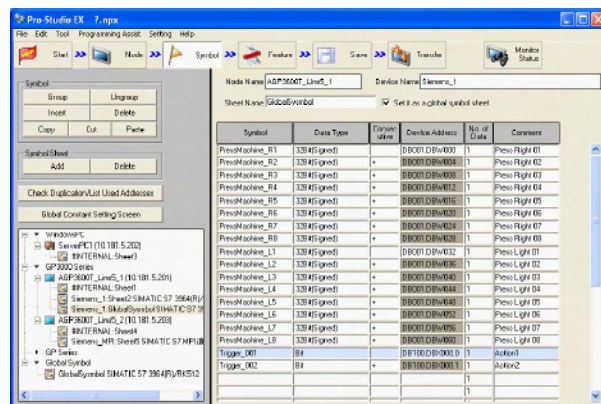
Data shared throughout your enterprise

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

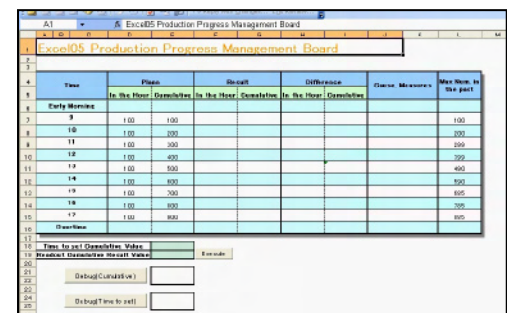### Report examples

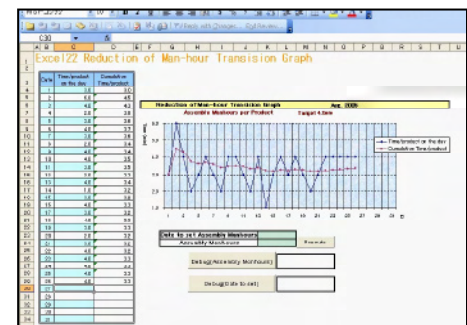Production Planning and Product Output Monitoring

Up-to-the-minute Productivity Efficiency Reports

Create the report you need in minutes!

- Select data
- Choose data operation
- Update network

No programming required!

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
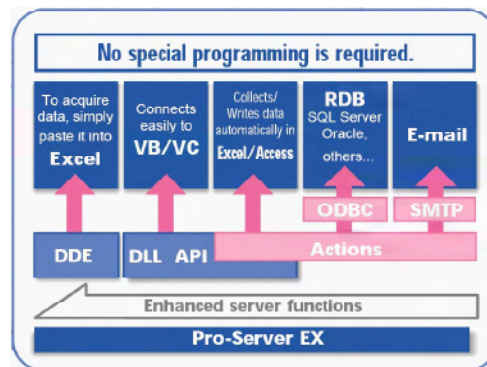
Applications

- 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!

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!

System Settings | Edit | Preview | Transfer
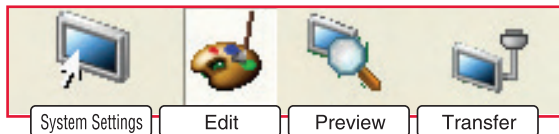
1

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

GP-Pro EX Development Environment

2
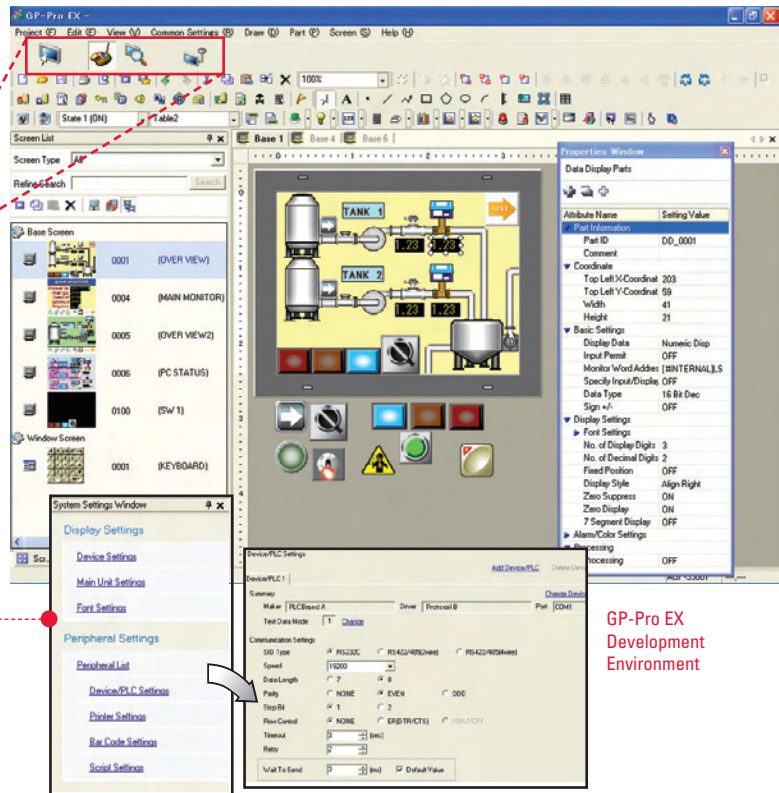
EDIT SCREENS

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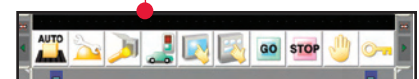
One-click access to multiple user-defined headers (i.e. title) and footers (i.e. menu) for perfect placement. Edits to headers/footers update all screens simultaneously!

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
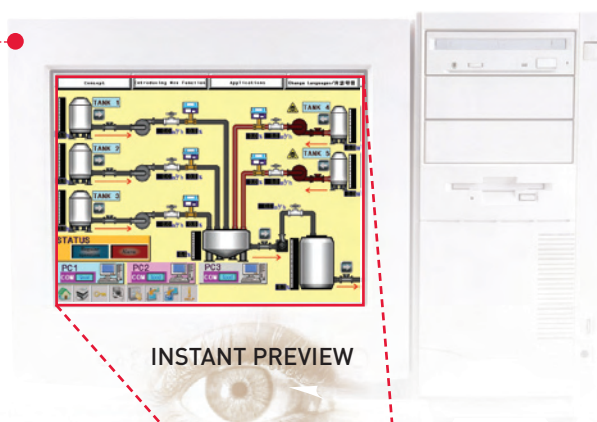 - Add screen captures to create clear specifications for engineering documents

INSTANT PREVIEW

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!

Fast Application Transfer

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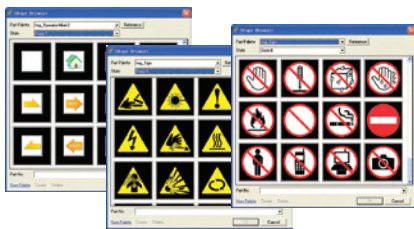Download a trial version today at www.xycom.com.

GP-Pro EX

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

III Over 1,800 high-quality 3D parts provide international recognition of symbols - overcoming language barriers.

III BMP and JPG files can be freely placed and reduced/enlarged with high clarity.

III Windows®-based image fonts provide a wide range of font characters and crisp, readable text with unlimited sizing capabilities.
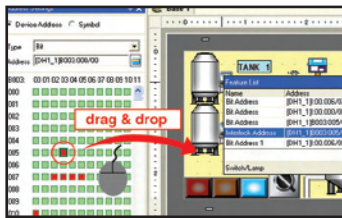
Visual PLC address mapping

III 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

III Execute multiple actions with one switch

III No need to stack switches, leading to possible operator error

III Choose Bit Switch, Word Switch, Set Action setting, PLC Address, etc.
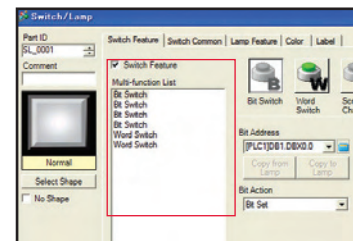
Easy bar-code reader setup

III As simple as enabling the COM port the reader is connected to

III Data is instantly displayed on the screen or can be logged

III Use for parts tracking or identifying machine operator

Part property window

III 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)

III Download HMI application to CompactFlash

III OEM machine field upgrades - no software needed!

III Log critical data to CF card for later retrieval and analysis

III Store large image files

User-defined macro functionality

Powerful D-scripting

III **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

III Create data logging algorithms – log to internal memory, CompactFlash, or print directly from AGP's touch screen, etc.
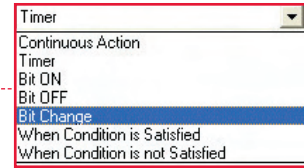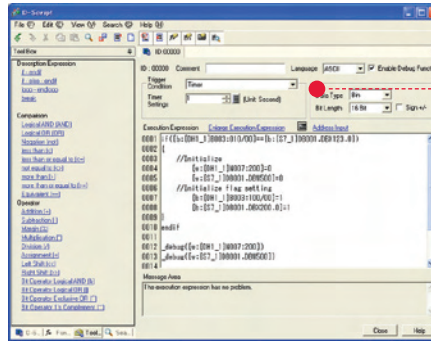
III Develop custom functions (macros) to execute a sequence of events.

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

Advanced functionality

Recipes

III 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
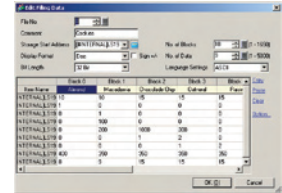
Data logging and historical trending

III Store data to CompactFlash (CF) or to a PC server for report generation

III View data from AGP3000 in historical graph format

III Real-time report generation
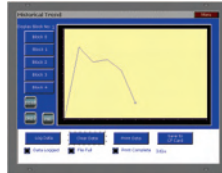
Alarms and events

III Quick visual of current, event-triggered and historical alarms

III View list and review detailed alarm descriptions

III Acknowledge alarms and take action or Reset and Revert back to normal operating mode

Security pop-up keypads

III 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

III Standardize equipment start-up times

III Monitor productivity from each production shift

III Set up periodic routine maintenance schedules

III Use time scheduler to limit access to machine operations

Multi-language

III Supports up to 16 different languages simultaneously

III English, French, German, Spanish, Asian languages, etc.

III Operators can view all screen images in the language of their choice

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.

FTP Server

CF Card

Event Occurrence

Error!

| 0 | 30 | 60 | 90 | 120 |

60 seconds   **60 seconds**
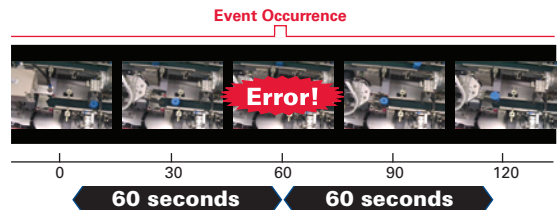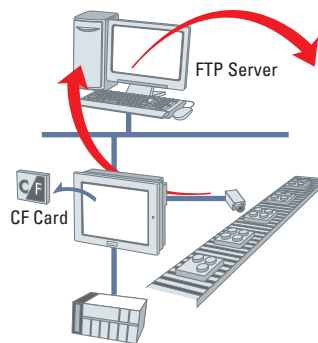
When a predefined event is triggered, video before and after the event (max. 120 sec.) is automatically recorded and stored as a log.

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.

FTP Server

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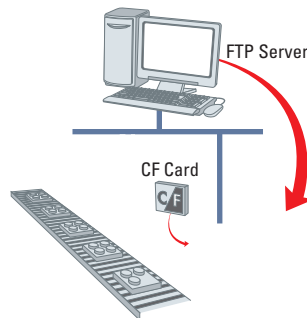
It's easy to add movies to on-site instruction screens for better comprehension.

Tank A·B Flow monitor

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.

VM Unit

GP

Camera 1 Camera 2
Camera 3 Camera 4
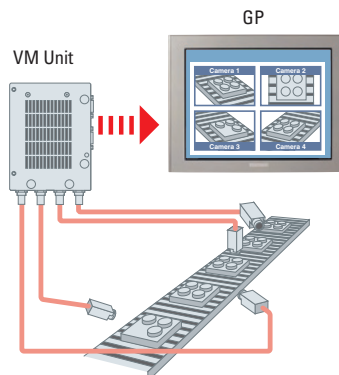
GP can control a PC by displaying the PC screen on GP by using a VM unit.

RGB input (for display)

Serial communications (for mouse emulation)
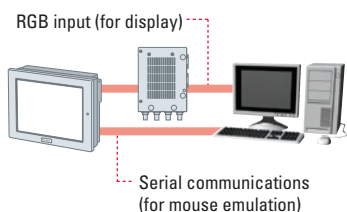
Note: Downloading Touch Panel Driver is necessary.

HMI control: Operator interfaces with built-in logic programming
More capabilities and features for demanding HMI applications

Logic program

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

Logic screen   Drawing screen

Block-structured subroutines ensure smooth editing.

Create programs easily with drag-and-drop operation.
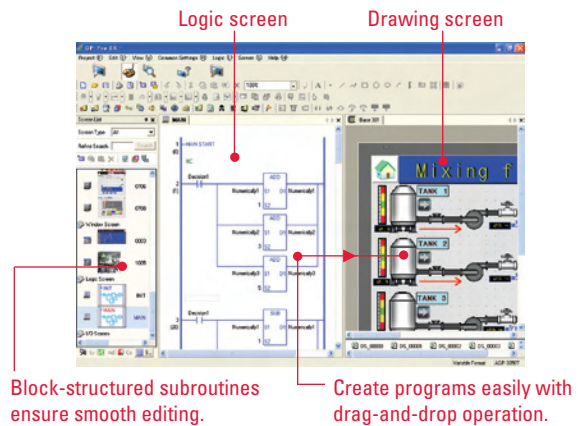
Now, added instructions for greater use of use.

Logic monitoring function

- III You can use a variety of AGP monitoring screens to check logic programs.
- III 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.

400m Max.
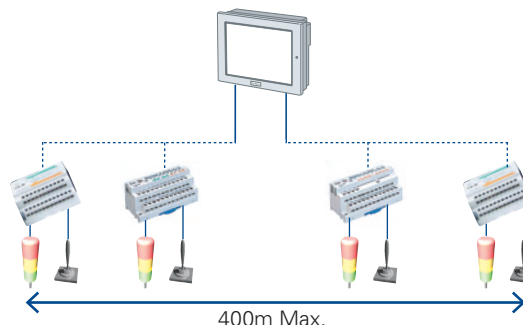
Use one HMI and control development environment to minimize the number of software packages you need to maintain and significantly reduce your support and maintenance costs.

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

AGP3000 Series Lineup

15 inch   **12.1 inch**   **10.4 inch**

AGP-3750T

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]

AGP-3650T -3600T

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]

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

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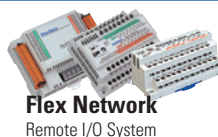
Profibus Profibus Slave Unit (CA5-PFSALL/EX-01)

7.5 inch

5.7 inch

AGP-3450T   -3400S
-3400T

DC24V (UL) c(UL) (SR) CE

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 (UL) c(UL) (SR) CE

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			
HMI Control Integrated — DIO Source	AGP3400-T1-D24-D81C	AGP3400-S1-D24-D81C	AGP3300-T1-D24-D81C	AGP3300-S1-D24-D81C	AGP3300-L1-D24-D81C			
HMI Control Integrated — 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
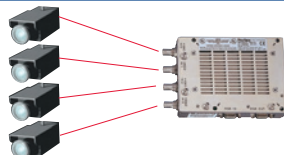
Video Mix Unit Interface
with four-camera NTSC/PAL input +RGB in/out
(GP2000-VM41)

The only HMI you need.

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

Switches Lamps Relays

Motors Sensors

Expansion Bus
• PROFIBUS Slave DP
• PLC

AUX/Sound Output
• Speaker output[2]

Video Input/ Output
• Support for GP2000 VM module[5]
• 4 inputs - NTSC or PAL

DIO
• Direct connection to wide range of components

Ethernet 10/100 BaseT
• PLC and other controllers

Flex Network
• Featuring I/O expansion

USB 1.1 Host Interface[3] (1 or 2 ports)
• PLC and other controllers
• Barcode/2D readers
• Printers
• USB Flash memory
• Modem transfer

CompactFlash™ Card Socket[4]

Perfect for storing images, video and recipe (filing) data, or for using memory loader function!

Sound Input
• Microphone

Video Input
• Direct input 1 channel
• NTSC, PAL, SECAM

COM1 (115.2kbps max.) RS-232C/422/485[1]
• PLC and other controllers
• Extended serial scripting to ASCII devices
• Barcode/2D readers

COM2 (115.2kbps max.) RS-422/485
• PLC and other controllers -Including MPI direct at 187.5kbps
• Extended serial scripting to ASCII devices

[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-01 for 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.

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)

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).

**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**

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.
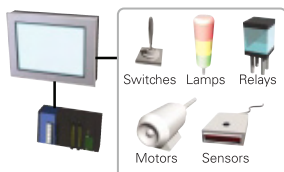
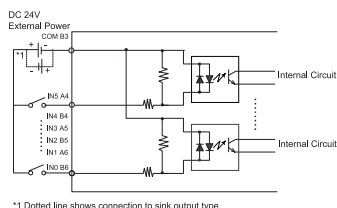## HMI Control With Integrated I/O

AGP3000 "DK81C/DK81K" Units
Built-In discrete I/O for when you need a few extra I/O points.
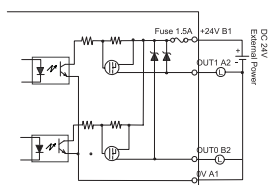
DIO type for direct connection to components

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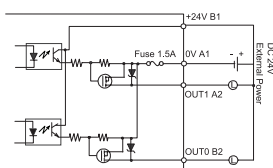- III DIO (source) type: 6 inputs/2 outputs

Switches Lamps Relays

Motors Sensors

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

DC 24V External Power
COM B3

IN5 A4
IN4 B4
IN3 A5
IN2 B5
IN1 A6
IN0 B6

Internal Circuit

Internal Circuit

*1 Dotted line shows connection to sink output type.

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

- III 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!

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.

CE CSA c(UL)us (UL)

c(UL)us   (Ro) Restriction of Hazardous Substances (RoHS) is a directive of the European Union (EU).

ISO 9001:2000	ISO 14000
Quality System Certified	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

NEW
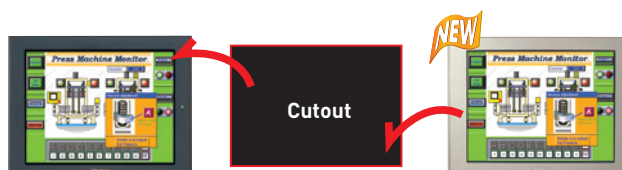
Cutout

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™

Xycom Automation LLC
750 North Maple Road
Saline, MI 48176 USA
Tel: 734-429-4971 or
Toll Free: 800-AT-XYCOM
Fax: 734-429-1010
http://www.xycom.com
Email: sales@xycom.com

Customer Care Center:
Tel: 734-944-0482
Web Support: http://support.xycom.com
Email: customercare@xycom.com

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Pro-face
Human Machine Interface

Factory Software **New Version News**

New Version News

Factory Software for GP/GLC **Factory Software**

HMI Screen Editing

Logic Control Programming

Screen Editor and
Logic Program Development
Software

GP-PRO/PB III
-C-Package02

GP

GLC

PLC

I/O Terminals

New Version News

Data Collection

Data Collection Software
Pro-Server
with Pro-Studio Ver.4.1

Remote Maintenance

Pro-Server Add-on Software
GP-Viewer
Ver.1.1

Remote Monitoring

Web Operation Software
GP-Web
Ver.1.6

For a Variety of Manufacturing Needs
- HMI Screen Editing
- Logic Control Programming
- Data Collection
- Remote Maintenance
- Remote Monitoring

Putting the future of Factory Automation at your fingertips.

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Factory Software
New Version News
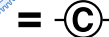### Pro-face

CERTIFIED
MANAGEMENT SYSTEM
JQA
QUALITY SYSTEM

ISO 9001
JQA-1367

Newly Updated Applications Make It Easy to Build Advanced-Level Systems

Screen Creation **+** Logic Program Development **=** -©- Package02

Screen Editor and Logic Program Development Software

GP-PRO/PBⅢ-©-Package02

Windows® XP compatible

Enjoy the benefits of having screen creation and logic program development in a single, integrated package. Create easy-to-use HMI systems by simply dragging and dropping pre-made Parts.

1 Faster, easier editing

The Parts Palette and Editor Screen now appear in the same screen, so you can place parts quickly and easily by simply dragging them from the palette and dropping them on the screen. Positioning the cursor over a tag icon also brings up an explanation of that tag's operation, to help you create and edit screens.

Editor Screen

Chip Inspection Unit

Parts Palette
Choose the parts from this list, and place them where you want them with simple drag and drop operation.

Drag & Drop

2 Check programs on-site with the GLC Ladder Monitor

When devices do not operate as expected and you need to check your programming, the GLC Ladder Monitor in GP-PRO/PBIII C-Package02 lets you do it right on the GLC screen.

- Monitor device variables.
- No need to stop PLC communications or control.
- Select either decimal or hexadecimal display.
- Scroll the ladder monitor screen for easy viewing.

GLC2400T, GLC2600T Only

3 Easily edit and transfer CSV data with your GP

File and log CSV data directly to a CF Card – Edit it using a PC or the GP.

Edit CSV data using just the GP's touch panel.

Office PC

GP/GLC

PLC

Edit on your PC.

- Change recipe data with the GP touch panel.
- Transfer recipe data in batches.

4 Connect a variety of devices with special scripts for extended SIO communication

GP/GLC extended SIO communication has been further enhanced with the addition of special scripts. Extra functions also help you create commands, making it easier to write communication programs.

SIO

Connect your existing peripherals quickly and easily.

No More Device Limitations

The extended SIO scripts are designed exclusively for LS devices. You can write a variety of programs into a single script.

Other Upgrade Features

Display previous trend graphs
Display the previous data for up to 65,000 past events.

Change connected equipment
Devices can be easily altered when changing PLCs, and the address strings for D-scripts can be changed at the same time.

Integer fonts
Select font sizes using integers (1 to 8) for text strings, part label, tags and load marks.

Display alarm history dates
Display your alarm acknowledge and recovery dates.

Enhanced settings for keypad input displays
Make settings for K-tags (except for the calculation function) and use pop-up keypad interlock.

Enhanced numeric display features
Numerical display style is now the same as N-tag display style.

- Automatic project back-up
- Enhanced functions for message displays
- SRAM back-up function
- Global cross references for direct screen opening
- Transfers block number and item name for filing data
- Loop operation and end bit added for JPEG captures
- Function added to disable offline passwords
- Index text string sorting
- Function to disable window parts screen display
- Improved video display setting area

## Data Collection Software

Pro-Server with Pro-Studio Ver.4.1

Windows® XP compatible

Collect data from PLCs and other production-line devices quickly and easily on a host PC, then use the data immediately in familiar applications like Microsoft® Excel and Word.

New "Create Report Action" collects a variety of data in a single sheet

Daily reports have typically required a complicated format programmed in VBA or a similar type of software. Now they can be created with no programming at all. "Create Report Action" makes it extremely easy to create even complex reports.

- In addition to device values, you can collect logging, trend, and other data, and paste text strings and JPEG images onto the forms you create.
- Switch and print GP data and sheet/book data at preset time intervals.
- Update your data right on an open Excel screen.

Trigger 1
Daily Reports
Trigger 2
Trigger 3
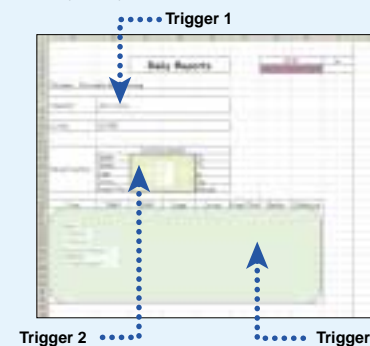
Other Upgrade Features

- Write to and read from Oracle® databases (Oracle ODBC driver supported).
- Data distribution reliability is now increased with the addition of a "distribution completed" bit.
- Windows® XP and Office® XP support.
- Data distributed to Pro-Server can be output in CSV format.

Pro-Server Add-on Software

GP-Viewer Ver.1.1

Easily view present and past production data screens.

Upgrade Features

- M-tags are supported, so you can take full advantage of existing screen data.
- The new trend graph display function lets you upload trend data and display it as an Excel graph.
- The alarm display function executes a preset alarm application in accordance with your Q-tag setting.

* Pro-Server with Pro-Studio Ver. 4.1 or higher required.

Web Operation Software

GP-Web Ver.1.6

Check your factory data via the Internet. Simplify maintenance and support.

Upgrade Features

- M-tags are supported, so you can take full advantage of existing screen data.
- The new trend graph display function lets you upload trend data from GP/GLC and display it as an Excel graph.
- The alarm display function performs a preset alarm application in accordance with your Q-tag setting.

Office Terminal

Factory

Factory Software

See back page for software operation environment details.
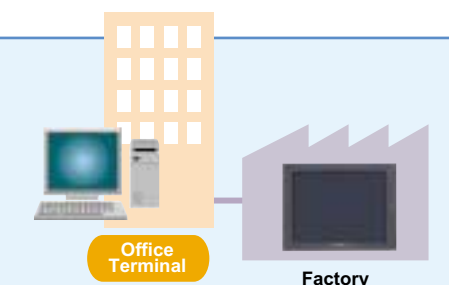
Software Environment Specifications

🔵 GP-PRO/PBIII C-Package02

Product No.	PC	OS	Screen Resolution	Hard Disk Space	Memory	Drive Type	Network Protocol
GPPRO-CNT01W-P02	Windows® compatible PC with Intel Pentium® II 266MHz or faster.	Windows® 95/98/2000/Me/XP Windows NT® (4.0 or later) (Windows NT® 4.0: Service Pack 3 or later)	SVGA (800 x 600 pixels) or higher	Minimum: 75MB Recommended: 145MB	Minimum: 32MB Recommended: 64MB	CD-ROM drive	TCP/IP (Set from the control panel)

🔵 Pro-Server with Pro-Studio Ver. 4.1

Product No.	PC	OS	Screen Resolution	Hard Disk Space	Memory	Drive Type	Network Protocol
PSW-ED01-V41	Windows® compatible PC with Intel Pentium® 133MHz or faster (Recommended: Pentium® II 200MHz) • Cannot be used with PC-9800 Series	Windows® 95/98/2000/Me/XP Windows NT® (4.0 or later) (Windows NT®/95: OSR2 or later) (Windows NT® 4.0: Service Pack 3 or later)	VGA (640 x 480 pixels) or higher	Minimum: 20MB Recommended: 30MB	Minimum: 32MB Recommended: 128MB	CD-ROM drive	TCP/IP (Set from the control panel)

You must have Pro-Server Ver. 4.1 to use GP-Viewer Ver. 1.1.

🔵 GP-Viewer Ver.1.1

Product No.	PC	OS	Screen Resolution	Related Programs (FEP, etc.)	Hard Disk Space	Memory	Network Protocol
PSW-GV01-V11	Windows compatible PC with Pentium® 133MHz or faster. (Recommended: Pentium® II 200MHz)	Windows® 95/98/2000/Me/XP Windows NT® (4.0 or later) (Windows NT® 4.0: Service Pack 3 or later)	VGA (640 x 480 pixels) or higher	Microsoft Internet Explorer Ver.5.0 or later	Minimum: 20MB Recommended: 30MB	Minimum: 32MB Recommended: 128MB	TCP/IP (Set from the control panel)

🔵 GP-Web Ver.1.6

Product No.		PC	OS	Screen Resolution	Related Programs (FEP, etc.)	Hard Disk Space	Memory
GW-CJ01-V16	Server (Runtime Environment)	Windows® compatible PC with Pentium® 133MHz or faster	Windows NT® 4.0 Server SP4.0 or later Windows® 2000 Server/Professional, Windows® XP	SVGA or higher	Pro-Server with Pro-Studio for Windows Ver.3.0 or later/IIS Ver.4.0 or later (Windows NT® 4.0 Server, Windows® 2000 Server/Professional) Microsoft Internet Explorer Ver.5.0 or later	Minimum: 50MB	Minimum: 128MB
	Server (Development Environment)		Windows NT® 4.0 Server/Workstation SP4.0 or later Windows® 2000 Server/Professional, Windows® XP	SVGA or higher	GP-PRO/PBIII for Windows Ver.6.0 or later/Pro-Server with Pro-Studio for Windows Ver.4.0 or later (When file modifications such as network project files are required. Possible to acquire GP information without Pro-Server if network project files exist.)		
	Client	Windows® compatible PC with Pentium® 200MHz or faster	Windows® 95 OSR2 or later/Windows® 98/Windows® Me/ Windows NT® 4.0/Workstation SP4.0 or later Windows® 2000 Server/Professional, Windows® XP	SVGA or higher	Microsoft Internet Explorer Ver.5.0 or later Microsoft Excel 97 or later		

A wide range of operator interfaces that combine seamlessly in your factory system, making all your factory and device data truly "visible".

Colorful, easy-to-read graphics, easy-to-use touch panel and high-speed data transfer. Graphic Operator Interfaces for a new era.

GP 2000 SERIES

NEW — **GP2000H Series**
NEW — **GP2300** 5.7-inch.
GP2400 7.4-inch.
GP2500 10.4-inch.
GP2600 12.1-inch.

Ethernet connectivity with serial devices – without programming !

Factory Gateway

NEW — **Factory Gateway**

Data, display, operation...plus control functions. High-performance controllers for versatile control systems.

GLC 2000 SERIES

NEW — **GLC2300** 5.7-inch.
GLC2400 7.4-inch.
GLC2600 12.1-inch.

⚠ **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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