



**GP2401H-TC41-24V**  
(6.5" TFT Color)



**GP2301H-LG41-24V**  
(5.7" Monochrome)



**GP2301H-SC41-24V**  
(5.7" STN Color)



## GP2x01 Series Handheld HMI

**5.7 and 6.5" Operator Interface Touch Screens with RS-232/RS-422 Serial Port Connectivity**

- Tethered HMIs with Full Graphic Touch Screen
- Built-in Safety Features: Emergency Shut-off, Vibration alert and 3 position system enable switch
- Ideal for use with portable machine diagnostic or maintenance carts
- Applications include Robotic Pendants, overhead crane control, and warehouse inventory control
- Includes Industry's best serial protocol support
- Extensive Multi-language Character Support
- Compatible with GP-PRO C-package 03 software

### COMMON FEATURES

- Mono, STN, TFT Touch Screens
- Two Open Collector Discrete Outputs
- Emergency Switch Output
- UL, cUL Certified
- RS-232/422 Com Port Configurable
- 24VDC Powered Units
- CompactFlash™ Port
- 3M and 10M Length Cables Available
- Oil and Impact Resistance

### INFORMATION



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

- Advanced featured graphics editor for drawing objects, animation, creating pre-configured operator objects, etc.
- Recipes Trending, Alarm/Event Management, Scheduling, Pop-up keypads, etc.
- Password protected; 15 level security.
- Script functions to interface to custom OEM equipment.

### SELECTION GUIDE

Model	GP-2401HT	GP-2301HS	GP-2301HL
Display	6.5" TFT Color	5.7" STN Color	5.7" LCD Mono
Display Resolution (pixels)	640 x 480	320 x 240	320 x 240
Display Color	256 Colors	64 Colors	Black/White
Function Key	16	12	12
SIO, I/O and Power I/F	1	1	1
CF-card I/F	1 Socket	1 Socket	1 Socket
Tool I/F	1	1	1
Vibration Motor	1	1	1
Emergency Switch	1NC/1NO	1NC/1NO	1NC/1NO
Enable Switch	3-mode 2NO	3-mode 2NO	3-mode 2NO
D-out	2 Points	2 Points	2 Points
Operation Output	1 Point	1 Point	1 Point
Buzzer Output	1 Point	1 Point	1 Point

### "BUILT-IN" SAFETY FEATURES

#### Vibration Alerts

With most hand-held units, there is a chance that you might overlook an alarm indication when you are watching a machine or the line. An internal motor in the GP2000H makes sure this won't happen by vibrating to alert you to alarms and warnings.



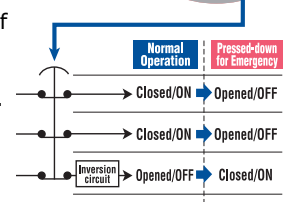
#### 3-Position Enable Switch

The GP2000H unit's 3-position "dead-man" enable switch with dual circuit is designed with safety in mind and operates only when it is lightly pressed and held. If it is tightly pressed, the contacts are opened.



#### 3-Contact Emergency Switch

This switch boosts the level of safety in the event of an emergency. Two contacts of this switch's use a forced-break mechanism to physically break the circuit. To protect against dual-circuit damage, the third contact can be used to trigger an inversion circuit.



# GP2x01H SERIES SPECIFICATIONS

## FUNCTIONAL SPECIFICATIONS

Models		GP2301H-LG41-24V	GP2301H-SC41-24V	GP2401H-TC41-24V
Display	Type	5.7" Monochrome LCD	5.7" STN Color LCD	6.5" TFT Color LCD
	Colors	Black and white	64-colors	256 colors
	Backlight	CCFL (service life: 50,000 hrs. at 25°C and 24 hr. operation)		
	Resolution	320 x 240 pixels		640 x 480 pixels
	Effective Display Area	(W)115.2mm [4.54in.] x (H)86.4mm [3.4in.]		(W)132.5mm [5.21in.] x (H)99.4mm [3.91in.]
	Brightness Control	4 levels of adjustment available via touch panel		
Memory	Application	1 MB FLASH EPROM		2 MB FLASH EPROM
	Data Backup	128 KB SRAM - Uses lithium battery		
Interfaces	Serial (COM 1) Interface	Asynchronous: RS-232C/RS-422, Data Transmission Speed: 2400 to 115.2 kbps, Data Length: 7 or 8 bits, Parity: None, Odd or Even		
	Tool Connector	Asynchronous TTL non-procedural command I/F		
	Memory Card Interface	1 socket (CompactFlash™)		

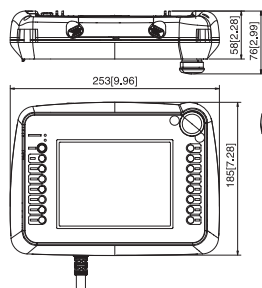
## GENERAL SPECIFICATIONS

Electrical	Input Voltage	DC 19.2V to DC 28.8V
	Power Consumption	15W or less
Environmental	Ambient Operating Temp.	0°C to 40°C
	Storage Temperature	-20°C to 60°C
	Storage Humidity	10%RH to 90%RH (non-condensing, wetbulb temp.: 39°C or less)
	Vibration Resistance	When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s <sup>2</sup> When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s <sup>2</sup> ; X, Y, Z directions for 10 times (80min.)
	Ratings	Equivalent to IP65f (JEM 1030) <sup>a</sup> NEMA#250 TYPE4X/12
Structural	Agency Certifications	EN55011 class A, EN61000-6-2, UL60950, CAN / CSA-C22.2 No.60950-00
	External Dimensions	W253 [9.96] x H185 [7.28] x D58 [2.28] mm [in.] (excluding projections) <sup>b</sup>
	Weight	1.2kg [2.65lb]

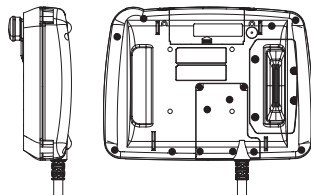
<sup>a</sup> The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment. Be sure to confirm your work environment requirements prior to installation.

<sup>b</sup> Does not include CF Card interface guard or emergency stop switch guard.

## EXTERNAL DIMENSIONS

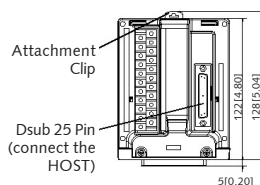


Unit: mm [in.]  
(GP2401H Shown)

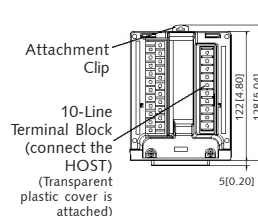


## ADAPTERS

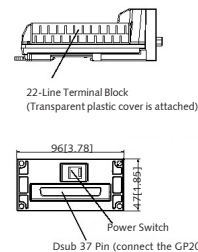
### GP2000H-AP232



### GP2000H-AP422



Unit: mm [in.]



## ORDERING INFORMATION

### ORDER NUMBER

**GP2301H-LG41-24V**

**GP2301H-SC41-24V**

**GP2401H-TC41-24V**

### DESCRIPTION

5.7" Monochrome LCD, CompactFlash Socket, 1 MB Memory, 24VDC, UL, CE

5.7" STN Color LCD, CompactFlash Socket, 1 MB Memory, 24VDC, UL, CE

6.5" TFT Color LCD, CompactFlash Socket, 2 MB Memory, 24VDC, UL, CE

### OPTIONAL ACCESSORIES

GP2000H-D232-3M

RS-232 Cable, 3M, D-Sub connector, connects handheld

GP2000H-AP232

RS-232 breakout adaptor for use GP2000H - D232-xx cables

GP2000H-D422-3M

RS-422 cable, 3m, D-sub connector, connects handheld to GP2000H-AP232

GP2000H-AP422

RS-422 Breakout adaptor for use GP2000H-D422-xx cables

GPW-CB02

Programming cable: PC RS-232 9-pin D-sub application download cable

GPW-CB03

Programming cable: PC USB, application download cable

GP2000H-DF10

Protective Hard Type Sheet for 5.7", 6.2" (5 per pack)

**Xycom Automation, Inc.**  
a Pro-face America Company  
734-429-4971  
Fax: 734-429-1010  
<http://www.xycom.com>

**Customer Support Hotline:**  
**734-944-0482**



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