



**GP270-LG31-24VP (monochrome)**  
**GP270-SC31-24V (STN color)**



## GP270 Series Monochrome & STN Color HMI

### 4.7" Operator Interface with RS-232/RS-422 serial port connectivity

The **GP270 series** of touch screen operator interface HMI unit includes one RS232/RS422 serial communication port for direct connection to PLC's, temperature controllers, inverters, and other various serial devices. The program download tool port doubles as a bar code reader input during runtime operation. Optional Communication modules for communication DH+, Remote I/O and Modbus Slave are also supported. These units are compatible with Pro-face's full-featured GP-PRO 03 HMI development software.

This unit is ideal for basic graphical HMI applications such as monitoring environmental chambers, tank levels, machine on/off status, part tracking, system event monitoring, heat treating, etc. Interface to your custom controller using GP-Pro 03 scripting language and write your own simple ASCII protocol.

## FEATURES

- 4.7-Inch touch screen
- 320 x 240 resolution
- NEMA 4x/12 Rated
- UL, cUL Recognized Certifications
- RS-232/422 Com Port Configurable
- Supports Optional Comm. Modules
- Bar Code Reader Support
- Multi-Language Support
- 0 to 50°C Rated

## INFORMATION

**Powerful  
secure data  
collection  
and sharing**



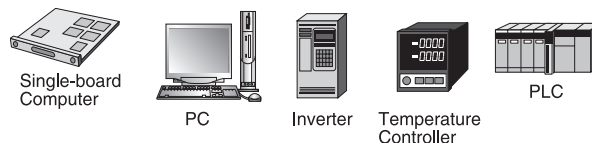
**Various HMI software solutions available to match your needs:**

- Advanced featured Graphics Editor for drawing objects, animation, creating pre-configured operator objects, scripting, etc.
- Recipes Trending, Data Logging, Alarm Event/Management, Security, etc.
- Multi-level security password features
- Graphic file import: BMP, JPEG, EMF, PNG
- Time-scheduler for production shift monitoring

## COMMUNICATION

**Versatile interfaces support flexible and expanding control system needs:**

- **Connect to various controllers via serial port or optional communications modules**



- **Also supports serial devices; such as single or two-dimensional bar code readers.**



## CONNECTIVITY: LARGEST SELECTION OF PROTOCOLS AVAILABLE!

### Popular Controllers Supported:

<b>Schneider</b> Twido Quantum Momentum Micro & Nano 984/884  <b>Toshiba</b> V Series Prosec EX, T Provisor  <b>Yokogawa</b> FA, FCN, FCJ UT Series  <b>Omron</b> Symac Series	<b>Rockwell</b> SLC500 PLC-5 Control Logix MicroLogix Compact Logix FR Inverters  <b>Mitsubishi</b> MELSEC-A MELSEC-FX MELSEC-Q MELSEC-QNA  <b>Koyo</b> Kostac DL205, 305, 405 DL05 Series	<b>GE Fanuc</b> Series 90-30 Series 90-70 PowerMate (Motion Controller) Fanuc Series 16, 18, 16i, 18i, 21i  <b>Fuji Electric</b> Panadac 7000 Micrex-F Flex-PC Temperature controllers  <b>Siemens</b> Simatic-S5 Simatic-S7-200, 300, 400 Simatic-505  <b>Toyoda</b> Toyopuc PC2/3	Profibus Modbus Plus Interbus S Data Highway Plus CanOpen Remote I/O DeviceNet Modbus RTU DH485  <b>... and MORE</b>
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# GP270 SERIES SPECIFICATIONS

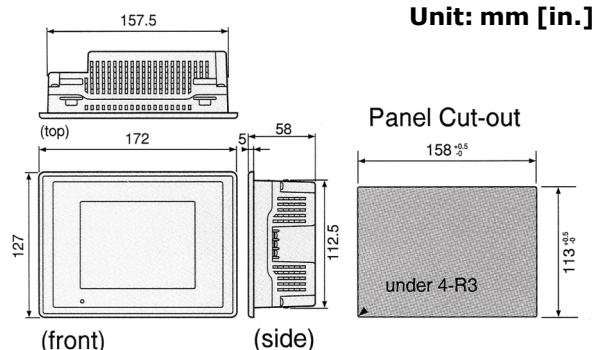
## FUNCTIONAL SPECIFICATIONS

Models		GP270-LG31-24VP	GP270-SC31-24V
Display	Type	4.7" Monochrome LCD	4.7" STN LCD
	Colors	Black and white	8-colors (white, red, blue, green, yellow, purple, light blue, bk)
	Backlight	User-replaceable CCFL (under normal temperatures and humidity, lifespan = 20,000 hrs.)	
	Resolution	320 x 240 pixels	
	Effective Display Area	(W)96mm [3.78in.] x (H)72mm [2.83in.]	
Memory	Brightness Control	8 levels of adjustment available via touch panel	
	Application	256 KB FLASH EPROM	
Interfaces	Serial (COM 1) Interface	Asynchronous: RS-232C/RS-422, Data Transmission Speed: 2400 to 38400 bps, Data Length: 7 or 8 bits, Parity: None, Odd or Even	
	Tool Connector	RS-232C Asynchronous Transmission Method, TTL level, non-procedure command interface (during screen development) used for downloading application screens (during RUN mode) used as Bar-code Reader interface	

## GENERAL SPECIFICATIONS

Electrical	Input Voltage	DC 20.4V to DC 27.6V
	Power Consumption	12W or less (TYP 8W)
Environmental	Ambient Operating Temp.	0°C to 50°C
	Storage Temperature	-20°C to 60°C
	Storage Humidity	20%RH to 85%RH (non-condensing)
	Vibration Resistance	10Hz to 25Hz (X, Y, Z directions for 30 minutes 2G)
	Ratings	(For front panel of installed unit) Equivalent to IP65f (limited to front panel)
Structural	Agency Certifications	CE, UL, cUL listed CL 1 Div 2 UL508, UL1604
	External Dimensions	W172mm[6.77in.] x H127mm [4.99in.] x D58mm [2.28in.] (GP main unit only)
	Weight	0.8kg (2.1lb) or less (main unit only)

## EXTERNAL DIMENSIONS



## OPTIONAL COMM. MODULES

QPJ-ABD-201	Data Highway Plus comm. module
QPJ-ABR-201	Remote I/O comm. module
QPJ-MBP-XA1	Modbus Plus comm. module

## ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
GP270-LG31-24VP	4.7" Monochrome LCD, RS-232/RS-422 Serial port, 24VDC, UL1950
GP270-SC31-24V	4.7" STN Color LCD, RS-232/RS-422 Serial port, 24VDC, UL1950
<b>OPTIONAL ACCESSORIES</b>	
GPW-CB02	Programming cable: PC RS-232, 9 pin D-sub application download cable
GPW-CB03	Programming cable: PC USB, application download cable
GP270-DF10-O	Overlay screen protection sheet (Qty 10)

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