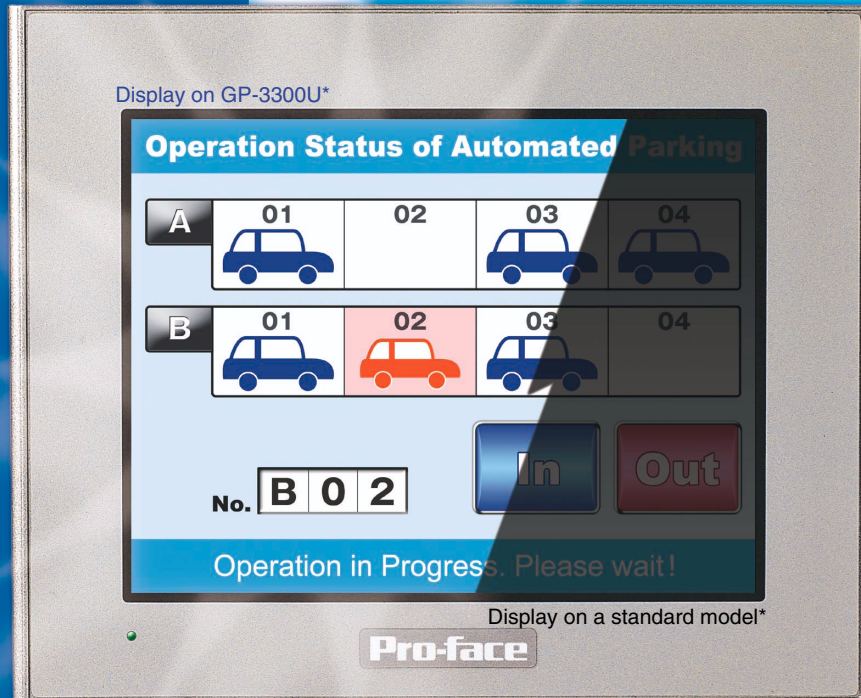


# Clearly Readable Display, Even Where the Sunlight Exists!

Low Light-reflection and Ultra High-brightness Model.



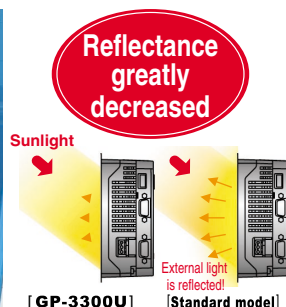
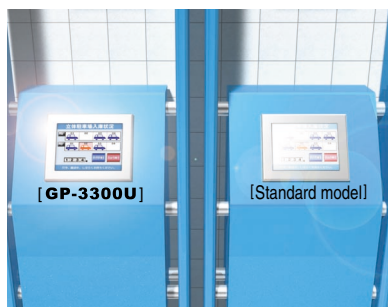
**NEW** **GP-3300U**  
Model Number: AGP3300-U1-D24

\* Display images when installed in well-lighted locations.

A New Solution from Pro-face® for Applications Installed in Well-lighted Locations.

Sharp Visibility!

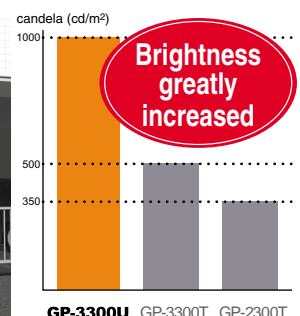
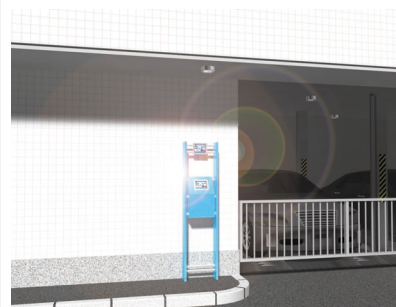
Reason 1 Designed for Minimizing Light Reflection



The anti-reflective design makes it less likely for light to be reflected even in well-lighted locations. This means that sharp and clear screens are displayed even in difficult-to-view locations.

Sharp Visibility!

Reason 2 1,000 cd/m<sup>2</sup> Ultra High-brightness TFT



The 1,000 cd/m<sup>2</sup> (measured on TFT color LCD) ultra high-brightness TFT even features a long backlight lifetime of 75,000 hours. This means that you can use HMI in a broad range of environments including well-lighted locations.

\* Use as directed in General Specifications on the rear of this leaflet.

Performance Specifications			General Specifications	
Display Type	TFT Color LCD (Ultra high-brightness)		International Safety Standards	CE , (Under application)
Display Colors	65,536 colors (No blink)* <sup>1</sup> 16,384 colors (3-speed blink)		Conforming Standards	EN 55011 Class A, EN 610000 - 6 - 2
Resolution	320 x 240 pixels (QVGA)		Input Voltage	DC24V
Backlight	CCFL (User nonreplaceable. Factory replacement required.)		Rated Voltage	DC19.2 to 28.8V
Dot Pitch	W0.36 x H0.36 mm [W0.01 x H0.01 in.]		Allowable Voltage Drop	5 ms max.
Effective Display Area	W117.2 x H88.4 mm [W4.16 x H3.48 in.]		Power Consumption	26 W max.
Brightness	1,000 cd/m <sup>2</sup> (Measured on TFT Color LCD)		Voltage Endurance	AC1,000V 20 mA for 1 minute (Between charging and FG terminals)
Brightness Control	8 Levels (Adjusted with the touch panel)		Insulation Resistance	DC500V 10 MΩ (min.) (Between charging and FG terminals)
Backlight Service Life	over 75,000 hrs.		Ambient Operating Temperature	0 to 50°C * <sup>6</sup>
Application Memory	FLASH EPROM 6 MB * <sup>2</sup>		Storage Temperature	-20 to +60°C
Backup Memory	SRAM 320 KB (Lithium battery for backup memory) * <sup>3</sup>		Ambient Humidity	10 to 90% RH (Wet bulb temperature: 39°C max. - no condensation)
Control Memory	Variable Area	SRAM 64 KB (Uses lithium battery) * <sup>3</sup>	Storage Humidity	10 to 90% RH (Wet bulb temperature: 39°C max. - no condensation)
	Program Area	FLASH EPROM 132 KB	Pollution Degree	For use in Pollution Degree 2 environment
	Number of Steps	Equivalent to 15,000 steps * <sup>4</sup>	Atmosphere	Free of corrosive gases
Touch Panel Type	Resistive Film (analog)		Air Pressure Vibration Resistance (altitude range)	800 to 1,114 hPa (2,000 meters max.)
Touch Panel Resolution	1,024 x 1,024		Vibration Resistance	IEC/EN61131-2 compliant 5 to 9 Hz Single Amplitude 3.5 mm [0.14 in.] 9 to 150 Hz Fixed Acceleration: 9.8 m/s <sup>2</sup> X, Y, Z Directions for 10 cycles (100 minutes)
Interfaces	Serial (COM1)	RS-232C/RS-422/RS-485* <sup>5</sup> , Asynchronous Transmission, Data Length: 7 bit/8 bit, Parity: None, Odd or Even, Stop Bit: 1 bit/2 bit, Data Transmission Speed: 2,400 bps to 115.2 Kbps, Connector: D-sub 9 pin(plug)	Noise Immunity	Noise Voltage: 1,000 Vp-p Pulse Duration: 1 μs Rise Time: 1 ns (via noise simulator)
	Serial (COM2)	RS-422/RS-485, Asynchronous Transmission, Data Length: 7 bit/8 bit, Parity: None, Odd or Even, Stop Bit: 1 bit/2 bit, Data Transmission Speed: 2,400 bps to 115.2 Kbps, 187.5 kbps(MPI), Connector: D-sub 9 pin(socket)	Electrostatic Discharge Immunity	Contact Discharge Method: 6 kV (IEC/EN61000-4-2 Level 3)
	Ethernet (LAN)	IEEE802.3u, 10BASE-T/100BASE-TX, Connector: Modular Jack (RJ-45) x 1	Grounding	Protective grounding:Grounding resistance of 100 Ω, 2 mm <sup>2</sup> or thicker wire, or your country's applicable standard. (Same for FG and SG terminals)
	Communication Expansion Unit 1	Communication Expansion Unit x 1	Structure * <sup>7</sup>	IP65f (On the front panel when properly installed in an enclosure)
	USB	Conforms to USB1.1, (TYPE-A conn.) x 1, Power Supply Voltage: DC5V±5%, Output Current: 500 mA (max.), Communication Distance: 5 m (max.)	External Dimensions	W167.5 mm x H135 mm x D59.5 mm[W6.59 x H5.31 x D2.34 in.]
	CF Card	Compact Flash Card Slot (TYPE-II) x 1	Weight Approx.	1.0 kg [2.2 lb] max. (unit only)
			Cooling Method	Natural Air Circulation

\*<sup>1</sup> Changing the Colors setting to "65,536 colors" will disable the blinking feature on all screens in your project. If you wish to use the blinking feature, select 16,384 colors.

\*<sup>2</sup> Capacity available for user application

\*<sup>3</sup> A Lithium battery's service life is over 10 years at 40°C or lower, over 4.1 years at 50°C or lower, and over 1.5 years at 60°C or lower. When used for backup, data can be retained for approximately 100 days with a fully charged battery or approximately 6 days with a half-charged battery.

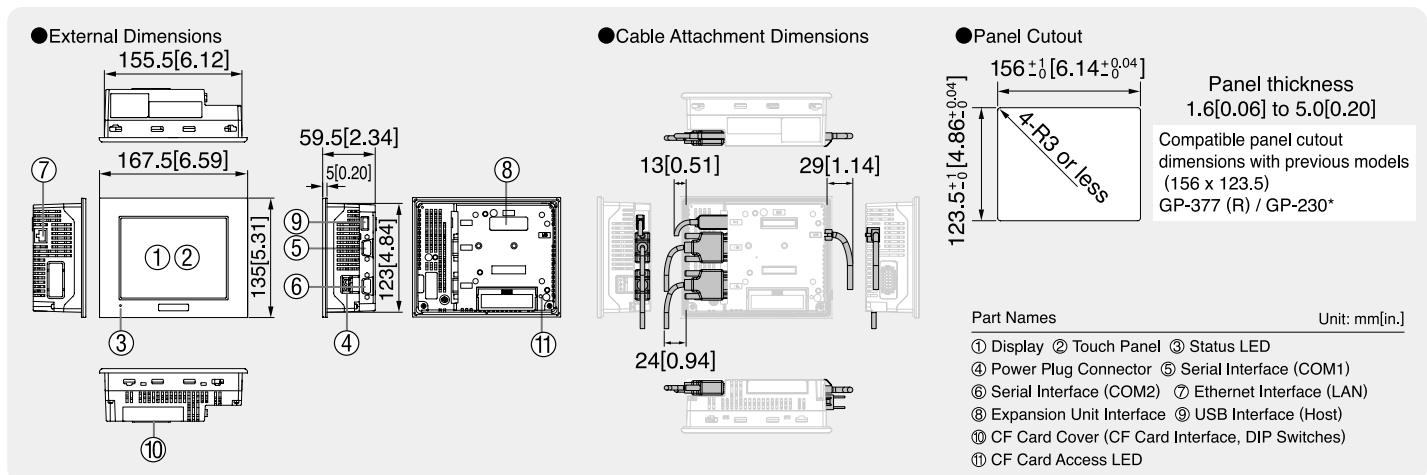
\*<sup>4</sup> The number of steps can be increased to 60,000 in the software. However, this reduces the internal memory capacity (for screen data) by 1MB.

\*<sup>5</sup> RS-232C and RS-422/RS-485 are software switchable.

\*<sup>6</sup> "Operating temperature" refers to the temperature inside the mounting enclosure and on the front panel.

\*<sup>7</sup> The performance of the product cannot be guaranteed for every environment.

Supporting Screen Editor Software: GP-Pro EX V2.51 or later (For the detail on the upgrade from the previous version, please contact our sales office closest to your office.)



\* Attaching a Protective Cover reduces the effectiveness of preventing the reflection of external light. A Screen Protection Sheet is not supported with GP-3300U.  
For details of other options and system design, refer to the GP-3000 Series Hardware Manual.