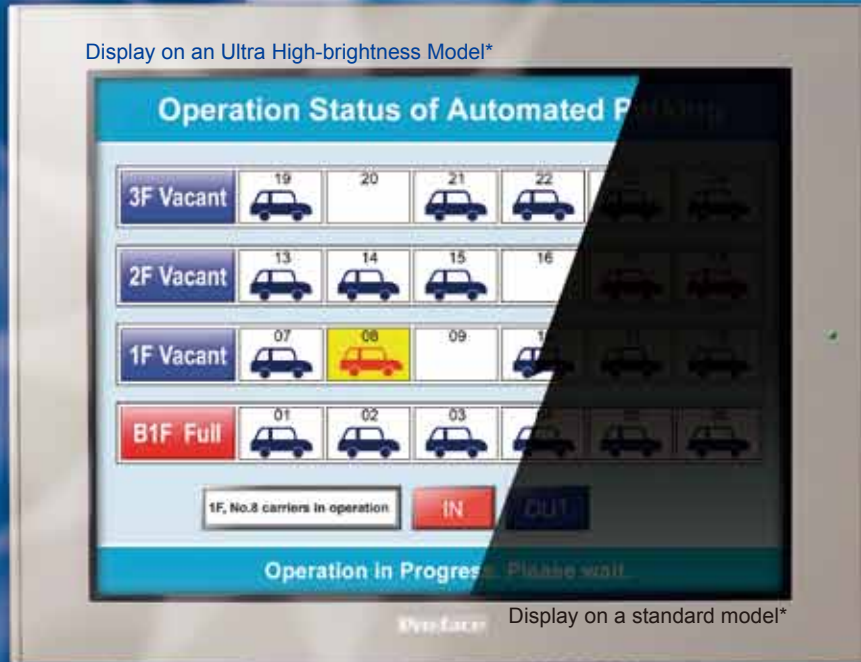


Clearly Readable Display, Even in Well-lit Locations!

Low Light-reflection and Ultra High-brightness Models



NEW 12.1-inch models added to the line-up!

12.1-inch Multimedia Class
GP-3650U
 Model No.: AGP3650-U1-D24
 Video functions

12.1-inch Control Class (CANopen Type)
GP-3600U
 Model No.: AGP3600-U1-D24-CA1M
 I/O control via CANopen

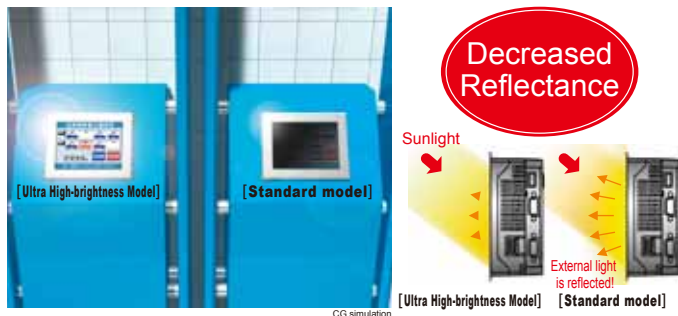
5.7-inch Standard Class
GP-3300U
 Model No.: AGP3300-U1-D24

* Display images when installed in well-lit locations.

A new solution from Pro-face for applications installed in well-lit locations.

Sharp Visibility!

Reason **1** Designed for Minimizing Light Reflection

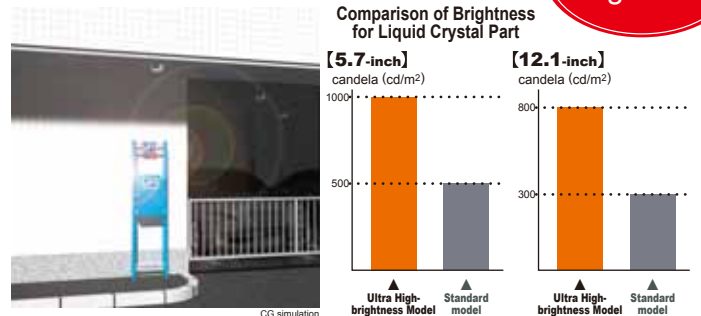


The low light reflective design provides sharp and clear screen displays, even in well-lit or difficult-to-view locations.

Sharp Visibility!

Reason **2** Ultra High-brightness TFT

Increased Brightness



The 5.7-inch model has an ultra high-brightness TFT LCD screen of 1000 cd/m² and the 12.1-inch model has an ultra high-brightness TFT LCD screen of 800 cd/m² (for liquid crystal part only). These screens allow you to use this HMI in a broad range of environments, including well-lit locations.

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

Performance Specifications	GP-3650U (M class) AGP3650-U1-D24	GP-3600U (C class) AGP3600-U1-D24-CA1M	GP-3300U (S class) AGP3300-U1-D24
Display Type	TFT Color LCD		
Display Colors	65,536 Colors (No blink) *1 16,384 Colors (3-speed blink)		
Resolution	W800 X H600 pixels		W320 X H240 pixels
Backlight	LED backlight (User nonreplaceable. Factory replacement required.)		CCFL (User nonreplaceable. Factory replacement required.)
Effective Display Area	W248mm [9.76in] X H186.5mm [7.34in]		W155.2mm [6.11in] X H86.4mm [3.40in]
Brightness control	8 levels of adjustment available via touch panel		
Backlight Service Life	over 40,000 hrs		over 75,000 hrs
Language Fonts	Japanese: 6962 (JIS Standards 1 & 2) (including 607 non-kanji characters) ANK: 158 *2		
Character Sizes	Standard font: 8X8, 8X16, 16X16 and 32X32 pixel fonts Stroke font: 6 to 12/pixel fonts Image font: 8 to 72 pixel fonts		
Text 8 X 8 dots	100 Char. X 75 rows		40 Char. X 30 rows
Text 8 X 16 dots	100 Char. X 37 rows		40 Char. X 15 rows
Text 16 X 16 dots	50 Char. X 37 rows		20 Char. X 15 rows
Text 32 X 32 dots	25 Char. X 18 rows		10 Char. X 7 rows
Application Memory	FLASH EPROM 10MB *3	FLASH EPROM 16MB *3	FLASH EPROM 6MB *3
Backup Memory	SRAM 320KB (Lithium battery for backup memory) *4		
Variable Area	SRAM 64KB (Uses lithium battery) *4		
Program Area	FLASH EPROM 132KB		
Number of Steps	Equivalent to 15,000 steps *5		
Touch Panel Type	Resistive Film (analog)		
Serial (COM1)	RS-232C/RS-422/RS-485 *6, Asynchronous Transmission, Data Length: 7 bit/8 bit Parity: none, Odd or Even, Stop Bit: 1bit/2bit Data transmission Speed: 2400 bps to 115.2 kbps, Connector: D-Sub 9-pin (plug)		
Serial (COM2)	RS-422/RS-485, Asynchronous Transmission, Data Length: 7 bit/8 bit Parity: none, Odd or Even, Stop Bit: 1bit/2bit Data transmission Speed: 2400 bps to 115.2 kbps, 187.5 kbps (MPI), Connector: D-Sub 9-pin (socket)		
Ethernet (LAN)	IEEE802.3u, 10BASE-T/100BASE-TX Connector: modular jack connector (RJ-45) x 1		
Expansion Unit 1	For Communication Expansion Unit x 1		
Expansion Unit 2	For Video Expansion Unit x 1		—
USB	Conforms to USB1.1, (TYPE-A conn.) x 2 Power Supply Voltage: DC5V ± 5% Output Current: 500mA (max.) Communication Distance: 5m (max.)		Conforms to USB1.1, (TYPE-A conn.) x 1 Power Supply Voltage: DC5V ± 5% Output Current: 500mA (max.) Communication Distance: 5m (max.)
CF Card	Compact Flash Card Slot (TYPE-II) x 1		
Function Expansion Memory	Function expansion memory interface (covered) x 1		—
Video Input	NTSC: 59.9HzPAL: 50Hz Connector: RCA 7.5Ω x 1	—	—
Sound Input	MIC input/LINE input (Change with S/W) Connector: MINI-JACK Φ3.5 x 1	—	—
Sound Output	Speaker Output 70mW (Rated Load: 8Ω, Frequency: 1KHz) Connector: Two piece type terminal block x 1	—	—
AUX Input/Output	[AUX Output] Alarm Output, RUN Output, Buzzer Output Rated Voltage: DC24V, Rated Current: 50mA [AUX Input] Remote Reset Input, Input Voltage: DC24V, Input Current: 6mA, Operating Voltage: (When ON) Min.: DC9V, (When OFF) Max. DC2.5V, Two piece type terminal block x 1		
CANopen Interface (Master)	—	63 nodes max. Bit variable input: 512 points, Bit variable output: 512 points, Integer variable input: 128 points, Integer variable output: 128 points. Connector: D-sub 9-pin (plug)	

General Specifications	GP-3650U (M class) AGP3650-U1-D24	GP-3600U (C class) AGP3600-U1-D24-CA1M	GP-3300U (S class) AGP3300-U1-D24
International Safety Standards	CE, RoHS, REACH		CE, RoHS, REACH
Conforming Standards	EN55011 Class A, EN61000-6-2		EN55011 Class A, EN61000-6-2, UL508, CSA-C22.2 No.142-M1987
Input Voltage	DC24V		
Rated Voltage	DC19.2 to 28.8V		
Allowable Voltage Drop	10 ms max.		5 ms max.
Power Consumption	50 W max.		26 W max.
Voltage Endurance	AC1,000V 20 mA for 1 minute (Between charging and FG terminals)		
Insulation Resistance	10MΩ or higher at DC500V (min.) (Between charging and FG terminals)		
Ambient Operating Temperature	0 to 50°C *7		
Storage Temperature	-20 to +60°C		
Ambient Humidity	10 to 90% RH (Wet bulb temperature: 39°C max. - no condensation)		
Storage Humidity	10 to 90% RH (Wet bulb temperature: 39°C max. - no condensation)		
Pollution Degree	For use in Pollution Degree 2 environment		
Atmosphere	Free of corrosive gases		
Air Pressure Vibration Resistance (altitude range)	800 to 1,114 hPa (2,000 meters max.)		
Vibration Resistance	IEC61131-2 compliant 5 to 9Hz single-amplitude 3.5mm [0.14in] 9 to 150Hz constant-accelerated velocity 9.8m/s ² X, Y, Z directions for 10 cycle (100 minute)		
Noise Immunity	Noise Voltage: 1000Vp-p (DC model) Pulse Duration: 1μs Rise Time: 1ns (via noise simulator)		
Electrostatic Discharge Immunity	6kV (complies with EN 61000-4-2 Level 3)		
Grounding	Grounding resistance of 100Ω 2mm ² or thicker wire, or your country's applicable standard. (Same for FG and SG terminals)		
Structure	IP65f (On the front panel when properly installed in an enclosure) *8		IP65f NEMA #250 TYPE 1 (On the front panel when properly installed in an enclosure) *8
Weight Approx.	3.0kg [6.6lb] max. (unit only)	3.2kg [7.0lb] max. (unit only)	1.0kg [2.2lb] max. (unit only)
Cooling Method	Natural air circulation		

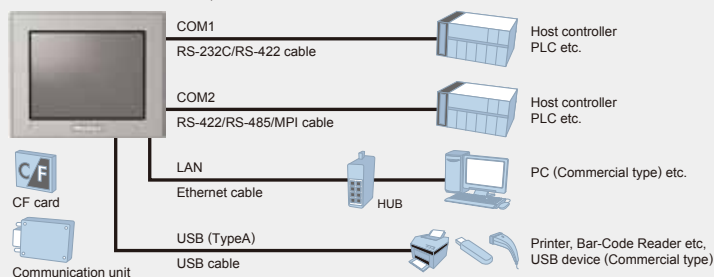
External Dimensions	W313mm [12.32in] X H239mm [9.41in] X D56mm [2.20in]	W167.5mm [6.59in] X H135mm [5.31in] X D59.5mm [2.34in]
Panel Cut Dimensions	W301.5mm [11.87in] X H227.5mm [8.96in] *9 Panel Thickness: 1.6mm [0.06in] to 10.0mm [0.39in] *3	W156.0mm [6.14in] X H123.5mm [4.86in] *9 Panel Thickness: 1.6mm [0.06in] to 5.0mm [0.20in]

- *1 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".
- *2 Korean/Chinese (Simplified/Traditional) / Cyrillic/Thai. For languages other than English/Japanese, FEPs and fonts for these languages should be added.
- *3 Capacity available for user application.
- *4 A Lithium battery's service life is over 10 years at 40°C or lower, and 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.
- *5 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.
- *6 RS-232C and RS-422/RS-485 are software switchable.
- *7 "Ambient Operating Temperature" refers to the temperature inside the mounting enclosure and on the front panel.
- *8 The performance of the product cannot be guaranteed for every environment.
- *9 As for dimensional tolerance everything +1/-0mm [+0.04/-0in] and R in angle are below R3 [R0.12in].

Supporting Screen Editor Software: GP-Pro EX Ver. 2.6 or later (For details on upgrading from the previous GP-Pro EX versions, please contact the nearest Pro-face sales office.)

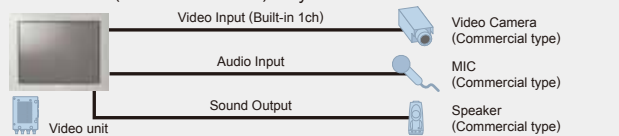
System Design

Common in GP-3650U, 3600U and 3300U

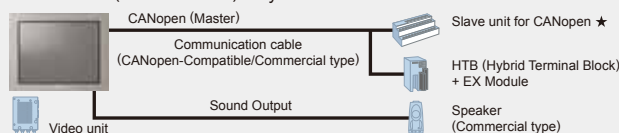


Attaching a Protective Cover reduces the effectiveness of preventing the reflection of external light. A Screen Protection Sheet is not supported with GP-3650U/3600U/3300U.

GP-3650U (Multimedia Class) only



GP-3600U (Control Class) only



* For supported device, visit Otasuke Pro! (<http://www.pro-face.com/otasuke/>)

For details on RS-232C/RS-422 and RS-422/RS-485/MPI cables for COM1 and COM2, please refer to the "Device/PLC Connection Manual" of GP-Pro EX. For model numbers and details on other options, please refer to the "GP3000 Series Hardware Manual".

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Technical Support Web Otasuke Pro! <http://www.pro-face.com/otasuke/>

Global Head Office	North/South American Head Office	European Head Office
Digital Electronics Corporation [JAPAN] Tel: +81-(0)6-6613-3116	Pro-face America, Inc. [U.S.A.] Tel: +1-734-429-4971	Pro-face Europe B.V. [THE NETHERLANDS] Tel: +31 (0)23 55 44 099
[AUSTRALIA] Tel: +61 (0)3 9550 7395, [AUSTRIA] Tel: +43 7236 3343 620, [BELGIUM] Tel: +32 (0)15 63 53 50, [CHINA] Tel: +86-(0)21-6361-5175, [CZECH REPUBLIC] Tel: +420 731 567 631, [DENMARK] Tel: +45 70 22 01 22, [ENGLAND] Tel: +44 (0)2476 440088, [FRANCE] Tel: +33 (0)1 60 21 22 91, [GERMANY] Tel: +49 (0)212 258 260, [HUNGARY] Tel: +36 28 40 46 55, [INDIA] Tel: +91-80-4011-8050/8033, [ITALY] Tel: +39 0362 59 96 1, [POLAND] Tel: +48 22 465 66 62, [RUSSIA] Tel: +007 812 336 47 06, [SOUTH KOREA] Tel: +82-(0)2-2630-9850, [SPAIN] Tel: +34 (0)93 846 07 45, [SWEDEN] Tel: +46 46 540 90 70, [SWITZERLAND] Tel: +41 (0)43 343 7272, [TAIWAN] Tel: +886-(0)2-2657-1121, [THAILAND] Tel: +66-(0)2-617-5678		