

GP-4603T (Model No.: PFXGP4603TAD)

Backlight Brightness Control Brightness Control Backlight Service Life 50,000 hrs. or more (continuous operation at 25°C [77 °F] before backlight brightness decreases to 50%) Japanese: 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters) Af 158 (Korean fonts, Simplified Chinese and Traditional Chinese fonts are downloadable.) Character Sizes Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 pixel fonts, Stroke font: 6 to 1 pixel fonts, Image font: 8 to 72 pixel fonts Standard font: Width can be expanded up to 8 times. Height can be expanded to 8 times. Backlight Service Life 8 x 8 dots 100 char. x 75 rows 16 x 16 dots 100 char. x 37 rows 15 x 16 dots 100 char. x 37 rows 16 x 16 dots 100 char. x 37 rows 15 x 16 char x 37 rows 15 x 16 char x 37 rows 16 x 16 dots 16 x 16 dots 17 character Sizes Application Memory FLASH EPROM 32 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 32 MB (Replaceable Lithium battery for backup memory) Bata Backup SRAM 320 KB (Replaceable Lithium battery for backup memory) Variable Area SRAM 64 KB (Replaceable Lithium battery for backup memory) Touch Panel Type Resistive Film (analog) Touch Panel Resolution 1,024 x 1,024 Touch Panel Service Life 1,000,000 times or more RS-485 (isolation) Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Od Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps. Connector: D-Sub9 (plug) RS-485 (isolation) Asynchronous Transmission Data Length: 7 or 8 bit Parity none, Even or Odd Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps. none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps. none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps. 187.5 kbps (MPI) Connector: D-Sub9 (socket) Interface Ethernet (LAN) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (F	Functional S	pecification	
Resolution 800 x 600 pixels (SVGA) Effective Display Area W246.0 x H184.5 mm [W9.69 x H7.26 im.] Display Colors 65,536 Colors (No blink/i16,384 Colors (Blink) Backlight White LED (User nonreplaceable parts. When replacement is required, conta your local distributor.) Brightness Control 18 Levels (Adjusted with the touch panel or the software) Backlight Service Life 50,000 hrs. or more (continuous operation at 25°C (77°F) before backlight brightness decreases to 50%) Japanese: 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters) Af 158 (Korean fonts, Simplified Chinese and Traditional Chinese fonts are downloadable.) Character Sizes 514 Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 pixel fonts, Stroke font: 6 to 1 pixel fonts, Image font: 8 to 72 pixel fonts Font Sizes 1 Standard font: Width can be expanded up to 8 times. Height can be expanded to 8 times. Example 16 x 16 dots 100 char. x 75 rows 16 x 16 dots 100 char. x 75 rows 16 x 16 dots 100 char. x 75 rows 16 x 16 dots 100 char. x 75 rows 16 x 16 dots 100 char. x 75 rows 16 x 16 dots 100 char. x 75 rows 17 rows 17 rows 18 rows 19	·		TFT Color LCD
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Display Colors 65,536 Colors (No blink)/16,384 Colors (Blink) Backlight White LED (User nonreplaceable parts. When replacement is required, contal your local distributor.) Brightness Control 16 Levels (Adjusted with the touch panel or the software) 50,000 hrs. or more (continuous operation at 25°C [77 °F] before backlight brightness decreases to 50%) Japanese: 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters) Af 158 (Korean fonts, Simplified Chinese and Traditional Chinese fonts are downloadable.) Character Sizes Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 pixel fonts, Stroke font: 6 to 1 pixel fonts, Image font: 8 to 72 pixel fonts Font Sizes *1 Standard font: Width can be expanded up to 8 times. Height can be expanded to 8 times. 8 x 8 dots 100 char. x 75 rows 16 x 16 dots 100 char. x 37 rows 16 x 16 dots 100 char. x 37 rows 32 x 32 dots Application Memory FLASH EPROM 32 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 32 MB (including a logic program area) Logic Program Area FLASH EPROM 8 MB (Replaceable Lithium battery for backup memory) Data Backup SRAM 320 KB (Replaceable Lithium battery for backup memory) SRAM 64 KB (Replaceable Lithium battery for backup memory) Clock Accuracy *3 100 char. x 1,024 100 char. x 1,024 100 char. x 1,024 100 char. x 1,024 100 char. x 37 rows 100 char. x 18 rows Application Memory FLASH EPROM 32 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 32 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 32 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 32 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 32 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 32 MB (including a logic program			800 x 600 pixels (SVGA)
Backlight White LED (User nonreplaceable parts. When replacement is required, contate your local distributor.) Brightness Control 16 Levels (Adjusted with the touch panel or the software) 16 Levels (Adjusted with the touch panel or the software) 17 Septimenss of the software of the	Effective Display Area		W246.0 x H184.5 mm [W9.69 x H7.26 in.]
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Backlight Service Life 50,000 hrs. or more (continuous operation at 25°C [77 °F] before backlight brightness decreases to 50%) Japanese: 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters) AI 158 (Korean fonts, Simplified Chinese and Traditional Chinese fonts are downloadable.) Character Sizes Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 pixel fonts, Stroke font: 6 to 1 pixel fonts, Image font: 8 to 72 pixel fonts Font Sizes *1 Standard font: Width can be expanded up to 8 times. Height can be expanded to 8 times. B x 8 dots Standard font: Width can be expanded up to 8 times. Height can be expanded to 8 times. B x 16 dots 100 char. x 37 rows 16 x 16 dots 100 char. x 37 rows 32 x 32 dots Application Memory FLASH EPROM 32 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 132 KB (Equivalent to 15,000 steps) Font Area FLASH EPROM 8 MB (Replaceable Lithium battery for backup memory) Variable Area SRAM 32 KB (Replaceable Lithium battery for backup memory) Variable Area SRAM 64 KB (Replaceable Lithium battery for backup memory) 2 dosc Accuracy *3 ±65 sec/month (deviation at room temperature and power is OFF) Touch Panel Type Resistive Film (analog) Touch Panel Resolution 1,024 x 1,024 Touch Panel Resolution RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Od Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps: Connector: D-Sub9 (plug) RS-485 (isolation) Asynchronous Transmission Data Length: 7 or 8 bit Parity: none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps: 15.2 kbps; 187.5 kbps (MPI) Connector: D-Sub9 (socket) Litterface Ethernet (LAN) LEEE802.3i/IEEE802.3i/, 10BASE-T/100BASE-TX Connector: D-Sub9 (socket) LUSB (Type-A) Conforms to USB2.0 (TYPE-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Out Current: 500 mA or less, Communication Distance: 5 m or less	Backlight		White LED (User nonreplaceable parts. When replacement is required, contact your local distributor.)
Backlight Service Life brightness decreases to 50%) Language Fonts Japanese: 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters) Af 158 (Korean fonts, Simplified Chinese and Traditional Chinese fonts are downloadable.) Character Sizes Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 pixel fonts, Stroke font: 6 to 1 pixel fonts, Image font: 8 to 72 pixel fonts Font Sizes *1 Standard font: Width can be expanded up to 8 times. Height can be expanded to 8 times. Towns 16 x 16 dots 100 char. x 75 rows 16 x 16 dots 100 char. x 75 rows 16 x 16 dots 100 char. x 37 rows 16 x 16 dots 100 char. x 37 rows 16 x 16 dots 100 char. x 37 rows 16 x 18 rows Application Memory FLASH EPROM 32 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 132 KB (Equivalent to 15,000 steps) Font Area FLASH EPROM 8 MB (Replaceable Lithium battery for backup memory) Data Backup SRAM 320 KB (Replaceable Lithium battery for backup memory) Variable Area SRAM 64 KB (Replaceable Lithium battery for backup memory) Clock Accuracy *3 ±65 sec/month (deviation at room temperature and power is OFF) Touch Panel Type Resistive Film (analog) Touch Panel Resolution 1,024 x 1,024 Touch Panel Service Life 1,000,000 times or more RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Od Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbpr. Connector: D-Sub9 (plug) RS-485 (isolation) Asynchronous Transmission Data Length: 7 or 8 bit Parity none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbpr. 115.2 kbps. 187.5 kbps. (MPI) Connector: D-Sub9 (socket) Litterface Ethernet (LAN) IEEE802.3i/IEEE802.3i/IEEE802.3i/IEEE802.3i/IEEE802.3i/IEEE802.3i/IEEE802.3i/IEEE802.3i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE802.5i/IEEE80	Brightness Control		16 Levels (Adjusted with the touch panel or the software)
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16 x 16 dots 32 x 32 dots 25 char. x 18 rows	Toyt	8 x 16 dots	100 char. x 37 rows
Application Memory FLASH EPROM 32 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 132 KB (Equivalent to 15,000 steps) Font Area FLASH EPROM 8 MB (Replaceable Lithium battery for backup memory) Data Backup SRAM 320 KB (Replaceable Lithium battery for backup memory) Variable Area SRAM 64 KB (Replaceable Lithium battery for backup memory) Clock Accuracy *3 ±65 sec/month (deviation at room temperature and power is OFF) Touch Panel Type Resistive Film (analog) Touch Panel Service Life 1,000,000 times or more RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Od Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps Connector: D-Sub9 (plug) RS-485 (isolation) Asynchronous Transmission Data Length: 7 or 8 bit Parity none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps 115.2 kbps, 187.5 kbps (MPI) Connector: D-Sub9 (socket) Ethernet (LAN) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (F 45) x 1 USB (Type-A) Conforms to USB2.0 (TYPE-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Out Current: 500 mA or less, Communication Distance: 5 m or less USB (Type mini-B) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	lext	16 x 16 dots	50 char. x 37 rows
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Font Area FLASH EPROM 8 MB (Replaceable Lithium battery for backup memory) SRAM 320 KB (Replaceable Lithium battery for backup memory) Variable Area SRAM 64 KB (Replaceable Lithium battery for backup memory) Clock Accuracy *3 ±65 sec/month (deviation at room temperature and power is OFF) Touch Panel Type Resistive Film (analog) Touch Panel Service Life 1,000,000 times or more RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Od Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps: Connector: D-Sub9 (plug) RS-485 (isolation) Asynchronous Transmission Data Length: 7 or 8 bit Parity: none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps: 115.2 kbps, 187.5 kbps (MPI) Connector: D-Sub9 (socket) Ethernet (LAN) USB (Type-A) Conforms to USB2.0 (TYPE-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Outper Current: 500 mA or less, Communication Distance: 5 m or less USB (Type mini-B) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	Application Memory		FLASH EPROM 32 MB (including a logic program area)
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Variable Area SRAM 64 KB (Replaceable Lithium battery for backup memory) £65 sec/month (deviation at room temperature and power is OFF) Touch Panel Type Resistive Film (analog) Touch Panel Resolution 1,024 x 1,024 Touch Panel Service Life 1,000,000 times or more RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Od Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps Connector: D-Sub9 (plug) RS-485 (isolation) Asynchronous Transmission Data Length: 7 or 8 bit Parity none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps, 187.5 kbps (MPI) Connector: D-Sub9 (socket) Ethernet (LAN) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (Full State of Conforms to USB2.0 (TYPE-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Output Current: 500 mA or less, Communication Distance: 5 m or less USB (Type mini-B) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	Font Area		FLASH EPROM 8 MB (Replaceable Lithium battery for backup memory)
Clock Accuracy *3 Touch Panel Type Resistive Film (analog) Touch Panel Resolution 1,024 x 1,024 Touch Panel Service Life 1,000,000 times or more RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Od Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps Connector: D-Sub9 (plug) RS-485 (isolation) Asynchronous Transmission Data Length: 7 or 8 bit Parity none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps, 187.5 kbps (MPI) Connector: D-Sub9 (socket) Ethernet (LAN) USB (Type-A) Conforms to USB2.0 (TYPE-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Output Current: 500 mA or less, Communication Distance: 5 m or less Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	Data Backup		SRAM 320 KB (Replaceable Lithium battery for backup memory)
Touch Panel Type Touch Panel Resolution Touch Panel Resolution Touch Panel Service Life Resistive Film (analog) 1,024 x 1,024 Touch Panel Service Life 1,000,000 times or more RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Od Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps Connector: D-Sub9 (plug) RS-485 (isolation) Asynchronous Transmission Data Length: 7 or 8 bit Parity none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps, 187.5 kbps (MPI) Connector: D-Sub9 (socket) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (Fundamental States) USB (Type-A) Conforms to USB2.0 (TYPE-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Output Current: 500 mA or less, Communication Distance: 5 m or less Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	Variable Area		SRAM 64 KB (Replaceable Lithium battery for backup memory)
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RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Od Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps Connector: D-Sub9 (plug) RS-485 (isolation) Asynchronous Transmission Data Length: 7 or 8 bit Parity none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps, 187.5 kbps (MPI) Connector: D-Sub9 (socket) Ethernet (LAN) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (Factor of the Asynchronous Transmission Data Length: 7 or 8 bit Parity none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps, 187.5 kbps (MPI) Connector: D-Sub9 (socket) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (Factor of the Asynchronous Transmission Data Length: 7 or 8 bit Parity none, Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps, 187.5 kbps (MPI) Connector: D-Sub9 (socket) INSERTING TO THE ASYNCHIAN STANDARD T	Touch Panel Resolution		1,024 x 1,024
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Interface Serial (COM2) none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps, 187.5 kbps (MPI) Connector: D-Sub9 (socket) Ethernet (LAN) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (Factor of the Modular jack (Factor of	Interface	Serial (COM1)	RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Odd or Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug)
Ethernet (LAN) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (F 45) x 1 USB (Type-A) Conforms to USB2.0 (TYPE-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Outper Current: 500 mA or less, Communication Distance: 5 m or less USB (Type mini-B) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less		Serial (COM2)	RS-485 (isolation) Asynchronous Transmission Data Length: 7 or 8 bit Parity: none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps, 187.5 kbps (MPI) Connector: D-Sub9 (socket)
USB (Type-A) Current: 500 mA or less, Communication Distance: 5 m or less USB (Type mini-B) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less		Ethernet (LAN)	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (RJ-45) x 1
		USB (Type-A)	Conforms to USB2.0 (TYPE-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Output Current: 500 mA or less, Communication Distance: 5 m or less
SD Card SD Card Slot x 1		USB (Type mini-B)	Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less
		SD Card	SD Card Slot x 1

^{*1:} Other font sizes can be set up with the Editor software.

^{*2:} Up to 60,000 steps can be converted in software. However, this reduces application memory capacity (for screen data) by 1 MB

^{*3:} Depending on the operating temperature and age of unit, the clock can deviate from -380 to +90 sec/month.

For systems where this level of deviation is a problem, the user should monitor and make adjustments when required.



General Specification			
International Safety Standards	Ro UL CE C C		
Rated Input Voltage	DC 24 V		
Input Voltage Limits	DC 19.2 to 28.8 V		
Allowable Voltage Drop	10 ms or less		
Power Consumption	17 W or less		
In-Rush Current	30 A or less		
Voltage Endurance	AC 1,000 V 20 mA for 1 min (between charging and FG terminals)		
Insulation Resistance	DC 500 V, 10 MΩ or more (between charging and FG terminals)		
Surrounding Air Temperature	0 to 55 °C [32 to 131 °F]		
Storage Temperature	-20 to 60 °C [-4 to 140 °F]		
Ambient Humidity	10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] or less - no condensation.)		
Storage Humidity			
Dust	0.1 mg/m³ (10-7 oz/ft³) or less (non-conductive levels)		
Pollution Degree	For use in Pollution Degree 2 environment		
Atmosphere	Free of corrosive gases		
Air Pressure (altitude range)	800 to 1,114 hPa (2,000 m above sea level or less)		
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/s², X, Y, Z directions for 10 cycles (approx. 100 min)		
Concussion Resistance	IEC/EN61131-2 compliant 147 m/s², X, Y, Z directions for 3 times		
Noise Immunity	Noise Voltage: 1,000 Vp-p, Pulse Duration: 1 µs, Rise Time: 1 ns (via noise simulator)		
Electrostatic Discharge Immunity	Contact Discharge Method: 6 kV (IEC/EN61000-4-2 Level 3)		
Grounding	Functional grounding: Grounding resistance of 100Ω, 2mm² (AWG 14) or thicker wire, or your country's applicable standard. (Same for FG and SG terminals)		
Structure *1	IP65f NEMA #250 TYPE 4X/13 (on the front panel when properly installed in an enclosure)		
Cooling Method	Natural air circulation		
Weight Approx.	2.5 kg [5.5 lb] or less (display unit only)		
External Dimensions	W315x H241x D56 mm [W12.4 x H9.49 x D2.2 in.]		
Panel Cut Dimensions *2	W301.5 x H227.5 mm [W11.87 x H8.96 in.], Panel thickness area: 1.6 to 5 mm [0.06 to 0.2 in.]		

^{*1:} The front face of the GP unit, installed in a solid panel, has been tested using conditions equivalent to the standards shown in the specification. Even though the GP unit's level of resistance is equivalent to these standards, oils that should have no effect on the GP can possibly harm the unit. This can occur in areas where either vaporized oils are present, or where low viscosity cutting oils are allowed to adhere to the unit for long periods of time. If the GP's front face protection sheet becomes peeled off, these conditions can lead to the ingress of oil into the GP and separate protection measures are suggested. Also, if non-approved oils are present, it may cause deformation or corrosion of the front panel's plastic cover. Therefore, prior to installing the GP unit, be sure to confirm the type of conditions that will be present in the GP's operating environment. If the installation gasket is used for a long period of time, or if the unit and its gasket are removed from the panel, the original level of the protection cannot be guaranteed. To maintain the original protection level, be sure to replace the installation gasket regularly.

Pro-face's GP4000 Series website http://www.pro-face.com/product/hmi/gp4000.html

^{*2:} Regarding dimensional tolerance, everything +1/-0 mm [+0.04/-0 in.] and R in angle are below R3 [R0.12 in.].