

GP-4301T (Model No.: PFXGP4301TAD) *Coated Model No.: PFXGP4301TADC

Language Fonts 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 127 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 up to 8 times. Height can be expanded up to 8 times. Height can be expanded up to 8 times. 8 x 8 dots 40 char. x 30 rows 8 x 16 dots 16 x 16 dots 20 char. x 15 rows 32 x 32 dots 10 char. x 7 rows Application Memory FLASH EPROM 16 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 320 KB (Replaceable Lithium battery for backup memory) Clock Accuracy *3 \$\frac{2}{2}\$	Functional S	pecification	
Resolution 320 x 240 pixels (QVGA)	·		TFT Color LCD
Effective Display Area			5.7"
Display Colors 65,536 Colors (No blink)/16,384 Colors (Blink) Backlight White LED (User nonreplaceable parts. When replacement is required, contact 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%) Japanesse. 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters) ANK 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 127 pixel fonts, Image font 8 to 72 pixel fonts Font Sizes 1 Standard font: Wridth can be expanded up to 8 times. Height can be	Resolution		320 x 240 pixels (QVGA)
Backlight Brightness Control Brightness Control Backlight Service Life Brightness Control Brightness Control Brightness Coreases to 50%) Japanese: 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters) ANK 158 (Korean fonts, Simplified Chinese and Traditional Chinese fonts are downloadable.) Character Sizes Backlight Service Life Brightness Control Brightness Coreases and Traditional Chinese fonts are downloadable.) Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 pixel fonts, Stroke font: 6 to 127 pixel fonts, Image font 8 to 72 pixel fonts Font Sizes Standard font: Width can be expanded up to 8 times. Height can be expanded up t	Effective Display Area		W115.2 x H86.4 mm [W4.54 x H3.40 in.]
Backlight your local distributor. Brightness Control 16 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) ANK 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 127 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 up to 8 times. Font Sizes *1 Standard font: Width can be expanded up to 8 times. Height can be expanded up to 8 times. 8 x 8 dots 40 char. x 30 rows 16 x 16 dots 20 char. x 15 rows 16 x 16 dots 20 char. x 15 rows 10 char. x 7 rows Application Memory FLASH EPROM 16 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 32 KB (Equivalent to 15,000 steps) Font Area FLASH EPROM 8 MB (Replaceable Lithium battery for backup memory) Variable Area SRAM 64 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-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) Interface Ethernet (LAN) IEEE802.3i/IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (RJ-45) x 1 USB (Type-A) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	Display Colors		65,536 Colors (No blink)/16,384 Colors (Blink)
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) ANK 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 127 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 up to 8 times. 8 x 8 dots 40 char. x 30 rows 40 char. x 7 rows Application Memory FLASH EPROM 16 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 18 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) Touch Panel Type Touch Panel Resolution RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) Interface Interface Ethernet (LAN) USB (Type-A) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	Backlight		
Backlight Service Life brightness decreases to 50%) Japanese: 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters) ANK 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 127 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 up to 8 times. B x 8 dots 40 char. x 30 rows B x 16 dots 40 char. x 15 rows B x 16 dots 20 char. x 15 rows Ja x 32 dots 10 char. x 7 rows Application Memory FLASH EPROM 16 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 Serial (COM1) RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Odd C 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/IEEE802.3i/IEEE802.3i, 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	Brightness Control		16 Levels (Adjusted with the touch panel or the software)
Language Fonts 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 127 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 up to 8 times. 8 x 8 dots 40 char. x 30 rows 8 x 16 dots 40 char. x 15 rows 16 x 16 dots 20 char. x 15 rows Application Memory FLASH EPROM 16 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 320 KB (Replaceable Lithium battery for backup memory) Variable Area SRAM 64 KB (Replaceable Lithium battery for backup memory) Clock Accuracy *3 \$\pmathrm{\pm	Backlight Service Life		, , , , , , , , , , , , , , , , , , , ,
Character Sizes 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 up to 8 times. 8 x 8 dots 8 x 16 dots 16 x 16 dots 20 char. x 15 rows 10 char. x 7 rows Application Memory FLASH EPROM 16 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 132 KB (Equivalent to 15,000 steps) Font Area Data Backup SRAM 320 KB (Replaceable Lithium battery for backup memory) Variable Area SRAM 64 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 Service Life RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) RS-422/485 Asynchronous Transmission Speed: 2,400 bps to 115.2 kbps, (Type mini-B) RESERVE (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 USB (Type mini-B) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	Language Fonts		
B x 8 dots	Character Sizes		Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 pixel fonts, Stroke font: 6 to 127 pixel fonts, Image font: 8 to 72 pixel fonts
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Application Memory Application Memory Application Memory FLASH EPROM 16 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, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) RS-422/485 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, 187.5kbps (MPI) Connector: D-Sub9 (plug) Interface Ethernet (LAN) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (RJ-45) x 1 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	Tavt	8 x 16 dots	40 char. x 15 rows
Application Memory FLASH EPROM 16 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, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) RS-422/485 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, 187.5kbps (MPI) Connector: D-Sub9 (plug) 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 USB (Type mini-B) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	rext	16 x 16 dots	20 char. x 15 rows
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, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) RS-422/485 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, 187.5kbps (MPI) Connector: D-Sub9 (plug) 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 USB (Type mini-B) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less		32 x 32 dots	10 char. x 7 rows
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, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) Serial (COM2) RS-422/485 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, 187.5kbps (MPI) Connector: D-Sub9 (plug) Interface 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	Application Memory		FLASH EPROM 16 MB (including a logic program area)
Data Backup SRAM 320 KB (Replaceable Lithium battery for backup memory) 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, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) RS-422/485 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, 187.5kbps (MPI) Connector: D-Sub9 (plug) Interface Ethernet (LAN) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (RJ-45) x 1 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	Logic Program Area *2		FLASH EPROM 132 KB (Equivalent to 15,000 steps)
Variable Area SRAM 64 KB (Replaceable Lithium battery for backup memory) Lock 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, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) RS-422/485 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, 187.5kbps (MPI) Connector: D-Sub9 (plug) Ethernet (LAN) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (RJ-45) x 1 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 ±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, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) RS-422/485 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, 187.5kbps (MPI) Connector: D-Sub9 (plug) 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 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 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, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) RS-422/485 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, 187.5kbps (MPI) Connector: D-Sub9 (plug) 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 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)
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, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) RS-422/485 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, 187.5kbps (MPI) Connector: D-Sub9 (plug) 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 Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	Clock Accuracy *3		±65 sec/month (deviation at room temperature and power is OFF)
Touch Panel Service Life 1,000,000 times or more RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) RS-422/485 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, 187.5kbps (MPI) Connector: D-Sub9 (plug) 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 Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	Touch Panel Type		Resistive Film (analog)
RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Odd of Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) RS-422/485 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, 187.5kbps (MPI) Connector: D-Sub9 (plug) 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 USB (Type mini-B) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	Touch Panel Resolution		1,024 x 1,024
Serial (COM1) Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug) RS-422/485 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, 187.5kbps (MPI) Connector: D-Sub9 (plug) Ethernet (LAN) 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 USB (Type mini-B) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	Touch Panel Service Life		1,000,000 times or more
Interface Serial (COM2) Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps, 187.5kbps (MPI) Connector: D-Sub9 (plug) 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 USB (Type mini-B) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less	Interface	Serial (COM1)	
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 USB (Type mini-B) Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less		Serial (COM2)	Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2
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 CE CE AMAS		
Rated Input Voltage	DC 24 V		
Input Voltage Limits	DC 19.2 to 28.8 V		
Allowable Voltage Drop	5 ms or less		
Power Consumption	10.5 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 M Ω 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 , 2mm^2 (AWG 14) or thicker wire, or your country's applicable standard. (Same for FG and SG terminals)		
Structure *1	Equivalent to IP65f NEMA #250 TYPE 4X/13 (on the front panel when properly installed in an enclosure)		
Cooling Method	Natural air circulation		
Weight Approx.	0.8 kg [1.8 lb] or less (display unit only)		
External Dimensions	W169.5 x H137 x D59.5 mm [W6.67 x H5.39 x D2.34 in.]		
Panel Cut Dimensions *2	W156 x H123.5 mm [W6.14 x H4.86 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.].