

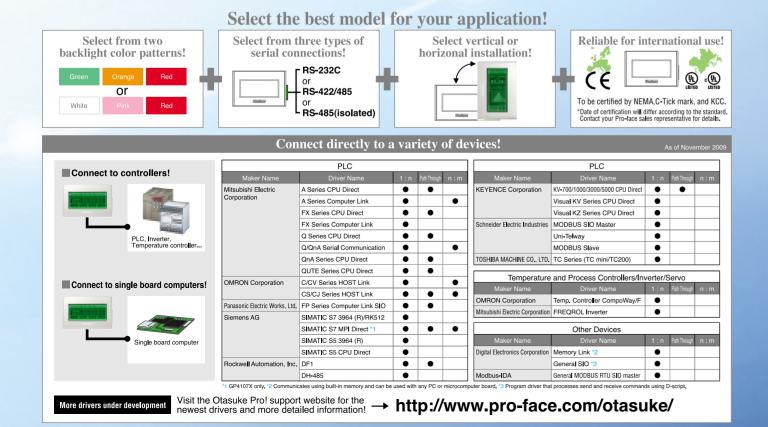


GP4100 SERIES

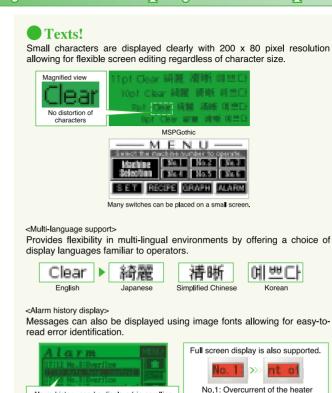
Compact HMI with easy-to-read display. Compact HMI for easy operation.

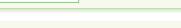
Compact graphic operator interface with features selected from all Pro-face HMI products.





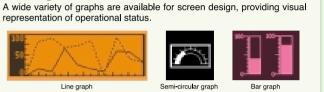
Easy-to-read display in a compact size!







Recognizable and easy-to-operate screens can be created using clear 16-grayscale parts. 16-grayscale parts Plain monochrome parts More parts downloadable from our support website. http://www.pro-face.com/otasuke/

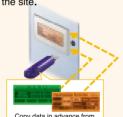






Graphs!





Alarm history can be displayed in scrolling text, eliminating display area limitations.

Numeric characters!

<Connectable to a USB code reader> USB connection allows data scanning with easy setup. "Use a self-powered USB hub when using a USB code reader.

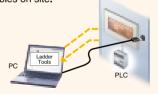
<Connect to devices using USB to SIO conversion> Support for expanded SIO scripts allows simultaneous connection to a temperature controller and PLC.

<Ladder data can be transferred by USB flash drives> Ladder data can be transferred from a display unit to TCmini/TC200, PLCs manufactured by Toshiba Machine, Co., Ltd. USB Type-A (for connecting USB flash drives and code readers)

USB mini-B (for screen data transfer and Pass-through features)

Easy editing of 3rd party PLC ladder programs! (USB mini-B) The Pass-through feature allows you to easily edit PLC ladder

programs and change the configuration via a HMI, without switching cables on site.



A USB extension cable can be installed to the front of a cabinet for maintenance without opening the panel.

● GP-Pro EX, Pro-face's screen editing software for all Pro-face products!

GP-Pro EX allows efficient, hassle-free screen creation and debugging, providing significant reduction of development time.





Easy installation with the common software among all Pro-face products!



● Screen Editor GP-Pro EX, compatible with all Pro-face products!



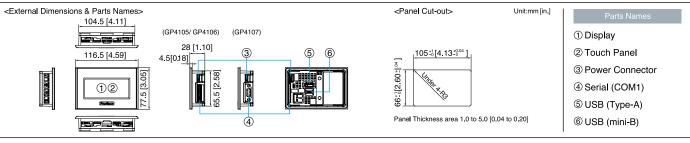
The GP4100 series offers more useful features. Visit the official Pro-face website for more information. http://www.proface.com/

Specification *For details on the specifications, visit the official Pro-face website or refer to the manuals,

Function Specifications		GP4105G1D GP4105W1D GP4106G1D GP4106W1D GP4107G1D GP4107W1D						
Display Type		3.4" STN Monochrome LCD						
Display Colors		Monochrome 16 Levels of grayscale						
Resolution		W200 x H80 pixels						
Backlight (Not replaceable)		Green/Orange/ Red	White/Pink/ Red	Green/Orange/ Red	White/Pink/ Red	Green/Orange/ Red	White/Pink/ Red	
Effective Display Area		W80 x H32 mm						
Language Fonts *1		Japanese, ASCII, Chinese (Simplified), Chinese (Traditional), Korean, Cyrillic, Thai						
Character Sizes		Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 pixel fonts Stroke font: 6 to 80 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 to 8 times. *2						
Text	8 X 16 pixels	25 char. x 5 rows						
	16 X 16 pixels	12 char. x 5 rows						
_	32 X 32 pixels	6 char. x 2 rows						
Apı	plication memory	FLASH EPROM 2.2 MB *3						
Clock Accuracy		Uses the clock of an external device						
Touch Panel Type		Resistive Film (analog)						
Interface	Serial (COM1)	RS-2 Asynchronous Data Lengtt Parity: Odd or Eve 1 or: Data Transmi 2,400 bps to Connector: 2- block	Transmission, n: 7 or 8 bit, none, n, Stop Bit: 2 bit, ssion Speed: 115.2 kbps, piece terminal	RS-42 Asynchronous Data Lengti Parity: Odd or Eve 1 or: Data Transmi 2,400 bps to Connector: 2- block	Transmission, n: 7 or 8 bit, none, n, Stop Bit: 2 bit, ssion Speed: 115.2 kbps, piece terminal	RS-485 (Asynchronous Data Lengti Parity: Odd or Eve 1 or: Data Transmi 2,400 bps to 187.5 kb, Connector: D-	Transmission, n: 7 or 8 bit, none, n, Stop Bit: 2 bit, ission Speed: 115.2 kbps, ps (MPI),	
	USB (Type-A)	Conforms to USB2.0 (Type-A) x 1, Power Supply Voltage: DC 5 V ± 5 %, Communication Distance: 5 m or less					5 V ±5 %,	
	USB (mini-B)	Conforms to USB2.0 (mini-B) x 1, Communication Distance: 5 m or less						

General Specifications	GP4105G1D GP4105W1D	GP4106G1D GP4106W1D	GP4107G1D GP4107W1D		
International Safety Standards *4	Ŵ cŴ C∈				
Conforming Standards	UL/cUL508, UL50 TYPE4X/13, EN61000-6-4, EN61000-6-2, EN61131-2				
Input Voltage	DC24V				
Power Consumption	2.7W or less *5	3.0W or less *5	3.4W or less *5		
Surrounding Air Tenperature	0 to 50 C *6				
Grounding	Functional grounding: Grounding resistance of 100Ω , 2mm2 or thicker wire, or your country's applicable standard.(Same for FG and SG terminals)				
Structure	IP65f, NEMA #250 TYPE 4X/13 (on the front panel when properly installed in an enclosure) *7				
External Dimensions	W116.5 x H77.5 x D28 mm [W4.59 x H3.05 x D1.1 in.]				
Weight	0.2 kg [0.4 lb] ot less (display unit only)				
Cooling Method	Natural air circulation				

- *1 Please refer to the GP-Pro EX Reference Manual for details on font types and character codes.
- *2 Other font sizes can be set up with the screen editor software.
- 3 Capacity available for user application.
- 4 Scheduled for January 2010 for UL, cUL.
- 5 Does not include power supply for USB devices.
 6 When using in an environment where the temperature becomes or exceeds 40 C for an extended period of time, the screen contrast level may decrease from its original level of brightness.
- 17 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.



■ Units

- Child						
Product Name	Model No.	Backlight Colors	Display Type	Serial (COM1)	USB	Input Voltage
GP-4105G	GP4105G1D	Green/Orange/Red		RS-232C	Type-A x1 mini-B x1	DC24V
GP-4105W	GP4105W1D	White/Pink/Red				
GP-4106G	GP4106G1D	Green/Orange/Red	3.4" STN	RS-422/485		
GP-4106W	GP4106W1D	White/Pink/Red	Monochrome LCD			
GP-4107G	GP4107G1D	Green/Orange/Red		RS-485 (isolated)		
GP-4107W	GP4107W1D	White/Pink/Red		113-403 (ISOIateu)		

Accessories

Product Name	Model No.	Description		
GP-Pro EX	EX-ED-V26	Screen editor software (Ver.2.6 or later required to use GP4100 series)		
USB Transfer Cable (Type-A/mini-B) (1.8 m)	ZC9USCBMB1	Cable for transferring screen data from a PC (Type-A) to the GP (USB mini-B)		
Mitsubishi PLC Q-Series CPU I/F Cable (3m)	ZC9CBQ31	Connects the GP directly to the CPU programming port on the Mitsubishi Electric PLC Q series		
Mitsubishi PLC FX-Series CPU I/F Cable (5m)	ZC9CBFX51	Connect the GP directly to the CPU programming port on the Mitsubishi Electric Mitsubishi PLC FX series		
Mitsubishi PLC FX-Series CPU I/F Cable (1m)	ZC9CBFX11			
Mitsubishi PLC A-Series Cable (5m)	ZC9CBA51	Connects the GP directly to the CPU programming port on the Mitsubishi Electric PLC A/QnA series		
Panasonic Electonic Works PLC FP Series CPU Cable (2m)	ZC9CBFP21	Connects the GP directly to the CPU port on the Panasonic Electric Works PLC FP series		
USB Panel-mount Extension Cable (USB mini-B 1m)	ZC9USEXMB1	Extension cable attaching to the USB (mini-B) port on the front side of the operation panel		
USB Panel-mount Extension Cable (USB Type-A 1m)	CA5-USBEXT-01	Extension cable attaching to the USB (Type-A) port on the front side of the operation panel		
USB-Serial (RS-232C) Conversion Cable (50cm)	CA6-USB232-01	Cable for converting a GP unit's USB interface (Type-A) into a serial interface (RS-232C)		
Screen Protection Sheet	ZC9DS31	Disposable, dirt-resistant sheet for the GP unit's screen (5 sheets/set)		
USB Clamp Type-A (1 Port)	ZC9USCL1	USB (Type-A) Cable clamp for 1 port products to prevent disconnection (5 clamps/set)		
USB Clamp mini-B (1port) ZC9USCLMB1		USB (mini-B) Cable clamp for 1 port products to prevent disconnection (5 clamps/set)		

■ Maintenance Items *Please purchase when the product is damage or lost.

Product Name	Model No.	Description
Installation Fastener	ZC9AF31	Used to install the GP into a solid panel (2 pieces/set)
Installation Gasket	ZC9WG31	Provides dust and moisture resistance when GP is installed into a solid panel (1 piece)
COM I/F Connector	ZC9CMC1	Connector for Serial I/F (1 piece)

Caution: Before operating any of these products, be sure to read all related manuals thoroughly.

- For printing purposes, the colors in this catalog may differ from those of the actual unit.
 LCD screens may exhibit minute grid-points (light and dark) on the Display Panel surface.
- Also, "Contouring" where some parts of the screen are brighter than others, producing a wavelike pattern may occasionally occur. Both are normal for an LCD display and are not defects.
- Actual user screens may differ from the screens shown here.
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