Pro-face[®]





Full Featured Compact Graphic Operator Interface

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.

	77.5mm [3.05in.]	4ch Operation 3 100 50 0 1.Flow 2.Remain 3.Ter	1 - 80 2 - 25 3 - 55 4 - 55 4 - 5 mp 4.Humid		
		116.5mm	[4.59in.]	Actual size	
	B. A	• 200 x 80 pixel re • 16 levels of gray • USB I/F x 2 (Typ	scale		
_		Select the best model	for your applica	tion!	
	Select from two backlight color patterns! Green Orange Red Or White Pink Red	Select from three types of serial connections! RS-232C or RS-422/485 or RS-485(isolated)	Select vertical of horizonal installar		Ck mark, and KCC.
		Connect directly to a	a variety of devices!	A	s of November 2009
	Connect to controllers!	PLC Maker Name Driver Name Mitsubishi Electric A Series CPU Direct Corporation A Series Computer Link	• • • •	Visual KV Series CPU Direct	Path Through In : m
	PLC, Invetter, Temperature controller	FX Series CPU Direct FX Series Computer Link Q Series CPU Direct Q/CnA Serial Communication QnA Series CPU Direct	• • • • • • • • • • • • • • • • • • •	Visual KZ Series CPU Direct Visual KZ Series CPU Direct MODBUS SIO Master Uni-Telway MODBUS Slave CHINE C0., LTD. TC Series (TC mini/TC200)	
	Connect to single board computers	QUTE Series CPU Direct OMRON Corporation C/CV Series HOST Link		emperature and Process Controllers/Inverter/S	ervo

CS/CJ Series HOST Link

SIMATIC S7 MPI Direct *1

SIMATIC S5 3964 (R)

SIMATIC S5 CPU Direct

SIMATIC S7 3964 (R)/RK512

asonic Electric Works, Ltd. FP Series Computer Link SIO

DH-485

ens AG

ockwell Automation, Inc. DF1

nalo board compute

More drivers under development

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OMRON Corporation Temp. Controller CompoWay/F

General SIO

Other Devices

General MODBUS BTU SIO master

Mitsuhishi Electric Cornoration EREOROL Inverter

Digital Electronics Corporation Memory Link

Modbus-IDA

Easy-to-read display in a compact size?

Texts! Small characters are displayed clearly with 200 x 80 pixel resolution allowing for flexible screen editing regardless of character size 建筑 建铁 目的 lea Car 25 36 36 0 1 No distortion of characters MSPGothic - M E N U -221 822 223 a see al DISLO DISCO GERE DEFART MEANIN Many switches can be placed on a small scree <Multi-language support> Provides flexibility in multi-lingual environments by offering a choice of display languages familiar to operators. 예쁘다 清晰 Clear 🕨 綺麗 English Simplified Chinese Japanese <Alarm history display> Messages can also be displayed using image fonts allowing for easy-toread error identification. Full screen display is also supported. No.1: Overcurrent of the heater Alarm history can be displayed in scrolling text, eliminating display area limitations. Numeric characters! Numbers are clearly displayed with bitmap and image fonts. 1234 1234 Standard font (seven-segment

1 : n Path Through

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1:n Pa

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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 specificatons, visit the official Pro-face website or refer to the manuals.							
Fund	ction Specifications	GP4105G1D	GP4105W1D	GP4106G1D	GP4106W1D	GP4107G1D	GP4107W1D
Display Type				STN Mon	ochrome L	CD	
I	Display Colors		Monoc	hrome 16 L	evels of gr	ayscale	
	Resolution		W200 x H80 pixels				
	LED Backlight lot replaceable)	Green/Orange/ Red	White/Pink/ Red	Green/Orange/ Red	White/Pink/ Red	Green/Orange/ Red	White/Pink/ Red
Effe	ctive Display Area			W80 x H	132 mm		
La	nguage Fonts *1	Japanese, ASCII, Chinese (Simplified), Chinese (Traditional), Korean, Cyrillic, Thai					
C	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				
	8 X 16 pixels	25 char. x 5 rows					
Text	16 X 16 pixels		12 char. x 5 rows				
	32 X 32 pixels	6 char. x 2 rows					
Ap	plication memory	FLASH EPROM 2.2 MB *3					
C	Clock Accuracy	Uses the clock of an external device					
To	ouch Panel Type	Resistive Film (analog)					
Interface	Serial (COM1)	RS-2 Asynchronous Data Length 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, biece terminal	RS-42 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-485 (Asynchronous Data Lengti Parity: Odd or Eve 1 or Data Transmi 2,400 bps to 187.5 kbj Connector: D-	Transmission, n: 7 or 8 bit, none, n, Stop Bit: 2 bit, ission Speed: 115.2 kbps, ps (MPI),
	USB (Type-A)				Power Supply Voltage: DC 5 V ±5 %, Distance: 5 m or less		
	USB (mini-B)	Conforms t	Conforms to USB2.0 (mini-B) x 1, Communication Distance: 5 m or less				

International Safety Standards		A (E 🥸 🕑 и	è			
Conforming Standards	UL508, CSA-C22.2 No.142, EN61000-6-2, EN61000-6-4, EN61131-2, GOST-R, C-Tick mark, KCC					
Input Voltage	DC24V					
Power Consumption	2.7W or less *4 3.0W or less *4 3.4W or le					
Surrounding Air Tenperature	0 to 50 C *5					
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) *6					
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	g Method Natural air circulation					
*1 Please refer to the GP-Pro EX Reference Manual for details on font types and character codes.						

P4106W1D GP4107G1D

*2 Other font sizes can be set up with the screen editor software.

P4105G1D GP410

*3 Capacity available for user application

⁴ Does not include power supply for USB devices.
 ⁵ 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.

*6 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

Product Name	Model No.	Backlight Colors	Display Type	Serial (COM1)	USB	Input Voltage
GP-4105G	GP4105G1D	Green/Orange/Red	D0 0000			
GP-4105W	GP4105W1D	White/Pink/Red	RS-232C 3.4" STN Monochrome LCD RS-422/485			
GP-4106G	GP4106G1D	Green/Orange/Red		DE 400/495	Type-A x1	DC24V
GP-4106W	GP4106W1D	White/Pink/Red		mini-B x1	00240	
GP-4107G	GP4107G1D	Green/Orange/Red		RS-485 (isolated)	1)	
GP-4107W	GP4107W1D	White/Pink/Red		110-400 (ISOIaleu)		

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) (1.8m)	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 (1port)	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)
COM I/F Connector	ZU9UMUT	

A 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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