



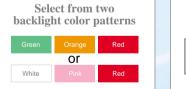
GP4100 SERIES

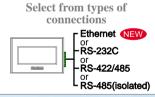
Compact HMI with easy-to-read display. Compact HMI for easy operation.

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



Compact HMI suitable for your application









		Connect directly	y to a variety of devices		As of May 201		
PLC			PLC		Temperature and Process Controllers		
Maker Name	Driver Name	Maker Name	Driver Name	Maker Name	Driver Name		
	A Series CPU Direct	Rockwell Automation, Inc.	DF1	CHINO CORPORATION	Temperature Controllers MODBUS SIO		
	A Series Computer Link		EtherNet/IP				
	FX Series CPU Direct		DH-485	Inverter/ Servo			
	FX Series Computer Link	KEYENCE CORPORATION	KV-700/1000/3000/5000 CPU Direct	Maker Name	Driver Name		
	FX Series Ethernet		KV-700/1000/3000/5000 Ethernet	Hitachi Industrial Equipment Systems Co.,Ltd	Inverter MODBUS RTU		
	Q Series CPU Direct		KV Series CPU Direct		Inverter ASCII SIO		
	Q Series QnU CPU Ethernet		KV-10 80RW/TW CPU Direct	Mitsubishi Electric Corporation	FREQROL Inverter		
	Q/QnA Serial Communication	Schneider Electric SA	MODBUS SIO Master	YASKAWA Electric Corporation	INVERTER/SERVO SIO		
	Q/QnA Series Ethernet		MODBUS TCP Master		MP/SERVO Ethernet		
	QnA Series CPU Direct		Uni-Telway	Fuji Electric Systems Co., Ltd.	INVERTER SIO		
	QUTE Series CPU Direct		MODBUS Slave	Sanmei Electric Corporation	Si/CutyAxis Series SIO		
OMRON Corporation	C/CV Series HOST Link	Sharp Manufacturing Systems Corporation	JW Series Computer Link Ethernet				
· ·	CS/CJ Series EtherNet/IP	LS Industrial Systems Co., Ltd.	Master-k Series Cnet	li li	ndustrial Robot		
	CS/CJ Series Ethernet		XGT Series FENet	Maker Name	Driver Name		
	CS/CJ Series HOST Link		XGT Series Cnet	IAI Corporation	ROBO CYLINDER MODBUS SIO		
YASKAWA Electric Corporation	MEMOBUS SIO	FANUC LTD.	Power Mate Series	,	X-SEL Controller		
·	MP Series SIO (Extension)	Hitachi, Ltd.	S10V Series Ethernet				
	MP/SERVO Ethernet	TOSHIBA MACHINE CO., LTD.	TC Series (TC mini/TC200)	Field	bus/Other Devices		
Hitachi Industrial Equipment Systems Co.,Ltd	H Series Ethernet	TOSHIBA CORPORATION	Computer Link Ethernet	Maker Name	Driver Name		
	H Series Serial	KOYO ELECTRONICS INDUSTRIES CO., LTD.	KOSTAC/DL Series CCM SIO	Digital Electronics Corporation	Memory Link *1		
Panasonic Electric Works Co., Ltd.	FP Series Computer Link SIO		KOSTAC/DL Series MODBUS TCP		General Ethernet *2		
Yokogawa Electric Corporation	Personal Computer Link SIO	FATEK AUTOMATION Corporation	FB Series SIO		General SIO *2		
,	Personal Computer Link Ethernet			Modbus-IDA	General MODBUS RTU SIO Master		
	MEMOBUS SIO Master	Temperature	and Process Controllers		General MODBUS TCP Master		
, I	MODBUS TCP Master	Maker Name	Driver Name	ODVA	EtherNet/IP Explicit Messaging		
JTEKT Corporation	TOYOPUC CMP-LINK SIO	Fuji Electric Systems Co., Ltd.	Temperature Controllers MODBUS SIO	*1 A driver for communication through a memory area in a main unit. *2 A program driver that processes send and receive commands using D-script.			
(Old Name:TOYODA Machine works,LTD.)	TOYOPUC CMP-LINK Ethernet	Yamatake Corporation	Digital Controller SIO				
Fuji Electric Systems Co.,Ltd.	MICREX-SX Series Ethernet		MODBUS SIO Master		_		
Siemens AG	SIMATIC S7 3964(R)/RK512		MODBUS TCP Master	More drivers under development Visit the Otasuke Pro! support website for the newest drivers and more detailed informati			
	SIMATIC S7 MPI Direct	RKC INSTRUMENT INC.	Temperature Controllers MODBUS SIO				
	SIMATIC S7 Ethernet		Temperature Controller				
	SIMATIC S5 CPU Direct	OMRON Corporation	Temperature Controllers CompoWay/F	→ http://www.pro-face.com/otas			
	SIMATIC S5 3964(R)	Yokogawa Electric Corporation	Personal Computer Link SIO				
Siemens Building Technologies	SAPHIR SIO	Shinko Technos Co., Ltd.	Indicating Controller SIO				

Easy-to-read display in a compact size

A wide variety of characters Small characters are displayed clearly with 200 x 80 pixel resolution allowing for flexible screen editing regardless of character size. lpt Clear 綺麗 清晰 예쁘0 Opt Clear 綺麗 清晰 明显C 9pt Clear 時隔 清晰 例準D Clear 经报 初期 明三0

— M E N U — No.1 No.2 No.3

<Multi-language support> Provides flexibility in multi-lingual environments by offering a choice of display languages familiar to operators.





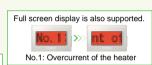




<Alarm history display> Messages can also be displayed using image fonts allowing for easy-toread alarm identification



text, eliminating display area limitations.



Easy-to-see numbers

Numbers are clearly displayed with bitmap and image fonts.

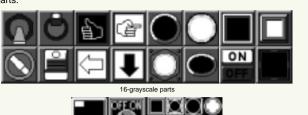






Stylish parts

Recognizable and easy-to-operate screens can be created using clear



More parts downloadable from our support website http://www.pro-face.com/otasuke/

OVisual information

A wide variety of graphs are available for screen design, providing visual representation of operational status







Crisp images

JPEG and BMP images can be displayed clearly with 16 levels of grayscales.





Easy to add sub-displays on a large-sized machine

GP-4104 allows you to add it as sub-display by the Ethernet multi-link function without changing machine settings.

Features of large-sized models in small package



Easy to connect to control devices without programs GP4100 Series allows you select suitable communication either Ethernet model or Serial model.



* The Ethernet Multilink function allows one control device to

Easy transfer of screen data without a PC (USB Type-A) Easy screen editing using a USB flash drive without bringing a PC to

Using USB Type-A allows you other benefits. <Connectable to a Bar-code/2D 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 via USB memory> Ladder data can be transferred from a display unit to TC Series (PLCs manufactured by Toshiba Machine, Co., Ltd) and MP2000

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



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

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



Screen Editor GP-Pro EX, common with all Pro-face products



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

To details on the specifications, visit the official Provide website of feler to the manual						
Fund	ction Specifications	GP4104G1D GP4104W1D	GP4105G1D GP4105W1D	GP4106G1D GP4106W1D	GP4107G1D GP4107W1D	
Display Type		3.4" STN Monochrome LCD				
Display Colors		М	onochrome 16 L	evels of graysca	le	
Resolution			W200 x F	180 pixels		
LED Backlight (Not replaceable)		Three color LED *1				
Effective Display Area			W80 x H	132 mm		
Language Fonts *2		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				
App	olication memory	FLASH EPROM 2.2 MB *3				
Clock Accuracy		Uses the clock of an external device				
Touch Panel Type		Resistive Film (analog)				
	Ethernet	IEEE802.3u, 10BASE-T/100BASE-TX, Connector:Modular jack(RJ-45) x 1				
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: 2-piece terminal block 9 pin	RS-422/485, Asynchronus Transmission, Data Length: 7 or 8 bit, Parily: none, Odd or Even, Slop Bit: 1 or 2 bit, Data Transmission Speed: 2.400 bps to 115.2 klbps, Connector: 2-piece terminal block 9 pin	RS-485 (isolated), Asynchronous Transmission, Data Length? or 8 bit, Parity: none, Odd or Even, Stop Bit 1 or 2 bit, Data Transmission Speed: 2.400 bps to 115.2 kbps, 187.5 kbps [MP], Connector: D-Sub9 (socket)	
USB (Type-A)		Conforms to USB2.0 (Type-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Communication Distance: 5 m or less				

USB (mini-B) Conforms to USB2.0 (mini-B) x 1, Communication Distance: 5 m or less

General Specifications	GP4104G1D GP4104W1D	GP4105G1D GP4105W1D	GP4106G1D GP4106W1D	GP4107G1D GP4107W1D		
International Safety Standards	₩ ·₩ C € Œ Œ Œ					
Conforming Standards	UL508, CSA-C22.2 No.142,ANSI/ISA12.12.01*4, CSA-C22.2, No.213*4, EN61000-6-2, EN61000-6-4, EN61131-2, GOST-R, C-Tick mark, KC					
Input Voltage	DC24V					
Power Consumption	2.7W o	r 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 , $2mm^2(AWG\#14)$ 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					

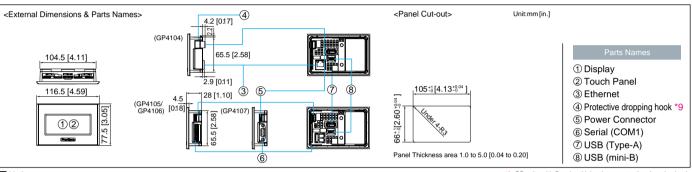
- 1: GP410*GID three color are Green/Orange/Red. GP410*WID three color are White/Pink/Red.
 2: Please refer to the GP-Pro EX Reference Manual for details on font types and character codes.
 3: Capacity available for user application.
 4: GP-4104G/W only. Sultable for use in Class I, Division 2, Groups A, B, C, and D Hazardous (classified) locations or Non-Hazardous Locations

- locations, or Non-Hazardous Locations.

 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.

 7: 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

*9: GP units with Rev.1 or higher have protective dropping hook

Product Name	Model No.	Types of connection	Backlight Colors	Display Type	USB	Input Voltage
GP-4104G NEW	GP4104G1D	10BASE-T/	Green/Orange/Red	3.4" STN Monochrome LCD 16 Grayscales	Type-A x1 mini-B x1	DC24V
GP-4104W NEW	GP4104W1D	100BASE-TX	White/Pink/Red			
GP-4105G	GP4105G1D	RS-232C	Green/Orange/Red			
GP-4105W	GP4105W1D	RS-232C	White/Pink/Red			
GP-4106G	GP4106G1D	RS-422/485	Green/Orange/Red			
GP-4106W	GP4106W1D	13-422/403	White/Pink/Red			
GP-4107G	GP4107G1D	RS-485 (isolated)	Green/Orange/Red			
GP-4107W	GP4107W1D	110-405 (Isolated)	White/Pink/Red			

Accessories

" ** " is changed with the version of software.

Product Name Model No.		Description		
GP-Pro EX EXEDV**		Screen editor software		
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 (3 m)	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 (5 m)	ZC9CBFX51	Connects the GP directly to the CPU programming port on the Mitsubishi Electric PLC FX series		
Mitsubishi PLC FX-Series CPU I/F Cable (1 m)	ZC9CBFX11	Connects the GF directly to the GFO programming port on the Milisubish Electric FLC FA series		
Mitsubishi PLC A-Series Cable (5 m)	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) *10
DC Power Supply Connector	ZCACNDCS1	Connector for attaching power supply to 3.4-inch GP units. (Set of 5 connectors) *11

*10 GP4105G/W, GP-4106G/W only. *11: For GP-4104G/W only. For the support for GP-4105G/W, GP-4106G/W and GP-4107G/W, contact your Pro-face sales representative

WARNING

HAZARD OF OPERATOR INJURY, OR UNINTENDED EQUIPMENT DAMAGE

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

Failure to follow these instructions can result in death or serious injury, unintended equipment damage.

- For printing purposes, the colors in this catalog may differ from those of the actual unit.
 Actual user screens may differ from the screens shown here.

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