

Pro-face®

Graphic Operator Interface

KLINKMANN

www.klinkmann.fi

Uutuus!

Markkinajohtajalta
täysin uuden sukupolven käyttöpääte

GP4000MSERIES

3.5"
QVGA



65.536 väriä

kirkas TFT näyttö, ethernet
vakiona, nopea asennus
ø 22mm reikään

5.7"
QVGA

Pieni
tehonkul.
5,7" < 6,8W
3,5" < 6,5W

Kevyt
5,7" 620g
3,5" 360g



Sama pääte kaikkiin järjestelmiin: Rockwell,
Siemens, Omron, Schneider, ABB, ethernet jne.

Nopea konfiguroida ja asentaa

Edullinen hintataso myös sarjatuotteisiin

Täydellinen pääteperhe, samalla ohjelmistolla - katso erillinen esite GP-mallit 3,4"-15".

www.klinkmann.fi

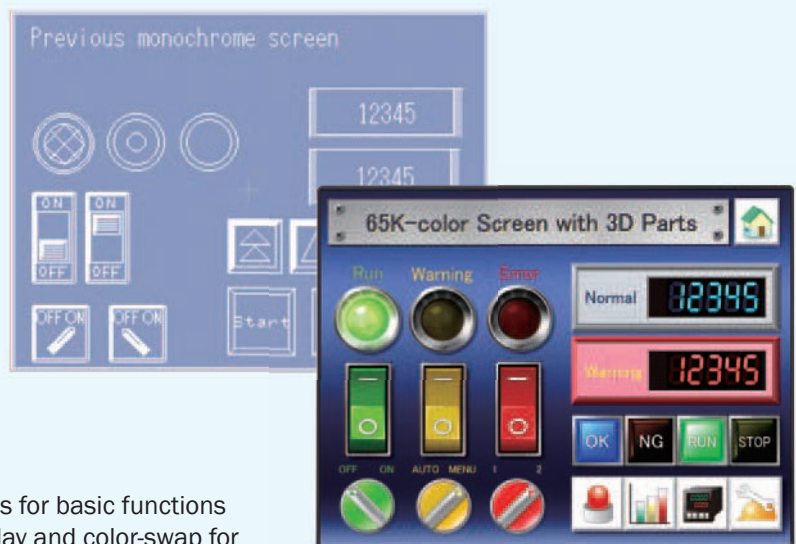
Operation panel with realistic graphics comes as a HMI standard

Simple and precise operation made possible by the 65,536-colors TFT display.
Easy to identify, easy to install and easy to connect via a variety of interfaces.

Easy to identify

Crystal-clear TFT LCD for
powerful expression in
65,536 colors.

Realize expressive operation screens with
3D Real Parts in 65,536 colors.



Enhanced graphics for even the
most basic functions.



Utilize 65,536 colors for basic functions
such as 7-digit display and color-swap for
alarm status messages.



A variety of graphical fonts provides easy-to-read numbers.

Use the project converter to distribute screens assets with
GP-Pro EX.

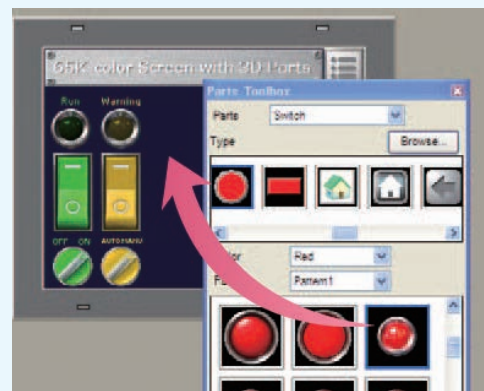
Easy to create

GP-Pro EX

Drag-and-drop allows you to easily create operation screens on
GP-Pro EX, a screen creation software.

In addition, it's easy to create attractive screens by downloading
backgrounds and illustrations online.

<http://www.pro-face.com/otasuke/>





5.7"
QVGA

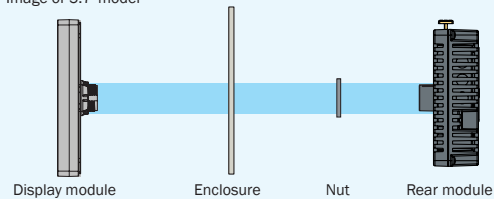
Low Power Consumption
5.7" 6.8 W or less
3.5" 6.5 W or less

Light Weight
5.7" 0.62 kg (1.36 lb.) or less
3.5" 0.36 kg (0.79 lb.) or less
*Main units only

Easy to install

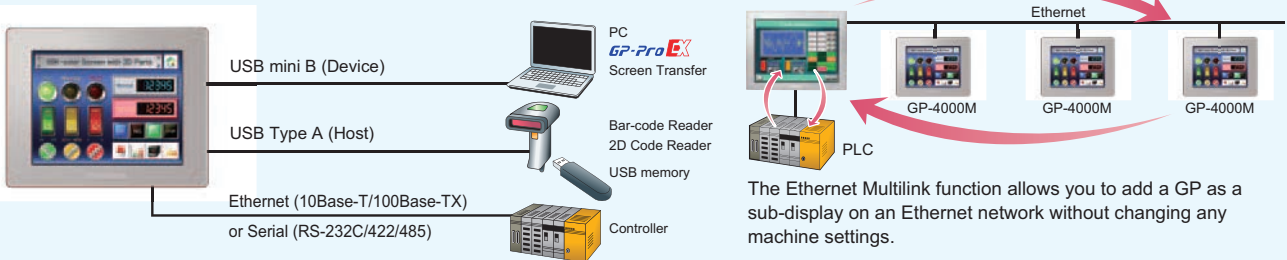
Just make a $\phi 22$ mm [0.87 in.] circular hole.

* Image of 5.7" model



Easy to connect

Provides a variety of onboard interfaces for hassle-free connection to various peripheral and control devices.



The Ethernet Multilink function allows you to add a GP as a sub-display on an Ethernet network without changing any machine settings.

Connect to various control devices via Ethernet or a serial port.

Connect directly to a variety of devices

* On the GP4000M Series, either of a serial interface or an Ethernet interface can be active for communication to control devices.


Maker Name	Driver Name	SIO or Ethernet	Ethernet multi-link
Digital Electronics Corporation	General Ethernet	●	●
	General SIO	●	●
	Memory Link	●	●
FATEK AUTOMATION Corporation	FB Series SIO	●	●
	MICREX-F Series SIO	●	●
Fuji Electric Corporation	MICREX-SX Series Ethernet	●	●
	MICREX-SX Series SIO	●	●
JTEKT Corporation	TOYOPUC CMP-LINK Ethernet	●	●
	TOYOPUC CMP-LINK SIO	●	●
KEYENCE Corporation	KV700/1000/3000/5000 CPU Direct	●	●
	KV-10_80RW/TW CPU Direct	●	●
KOYO ELECTRONICS CO., LTD.	KOSTAC/DL Series CCM SIO	●	●
	KOSTAC/DL Series MODBUS TCP	●	●
LS Industrial Systems	Master-K Series Cnet	●	●
	XGT Series Cnet	●	●
Mitsubishi Electric Corporation	XGT Series Fenet	●	●
	IA Series	●	●

Maker Name	Driver Name	SIO or Ethernet	Ethernet multi-link
Mitsubishi Electric Corporation	A Series Computer Link	●	●
	A Series Ethernet	●	●
	FX Series Computer Link	●	●
	FX Series CPU Direct	●	●
	FX Series Ethernet	●	●
	Q Series CPU Direct	●	●
	Q Series OnU CPU Ethernet	●	●
	Q/QnA Serial Communication	●	●
	Q/QnA Series Ethernet	●	●
	QnA Series CPU Direct	●	●
QUTE Series CPU Direct	●	●	
MODBUS IDA	General MODBUS RTU SIO Master	●	●
	General MODBUS TCP Master	●	●
	C/CV Series HOST Link	●	●
OMRON Corporation	CS/CJ Series Ethernet	●	●
	CS/CJ Series HOST Link	●	●
	FP Series Computer Link SIO	●	●

Maker Name	Driver Name	SIO or Ethernet	Ethernet multi-link
RKC INSTRUMENT INC.	Temp. Controller MODBUS SIO	●	●
	Temperature Controller	●	●
	DF1	●	●
Rockwell Automation, Inc.	DH-485	●	●
	EtherNet/IP	●	●
	MODBUS SIO Master	●	●
Schneider Electric Industries	MODBUS Slave	●	●
	MODBUS TCP Master	●	●
	Uni-Telway	●	●
Siemens AG	SIMATIC S7 Ethernet	●	●
	SIMATIC S7 MPI Direct	●	●
Siemens Building Technologies	SAPHIR SIO	●	●
TOSHIBA MACHINE CO., LTD.	TC Series(TCmini/TC200)	●	●
	YASKAWA Electric Corporation	MP/SARVO Ethernet	●
YOKOGAWA Electric Corporation	MP Series SIO(Extension)	●	●
	Personal Computer Link SIO	●	●

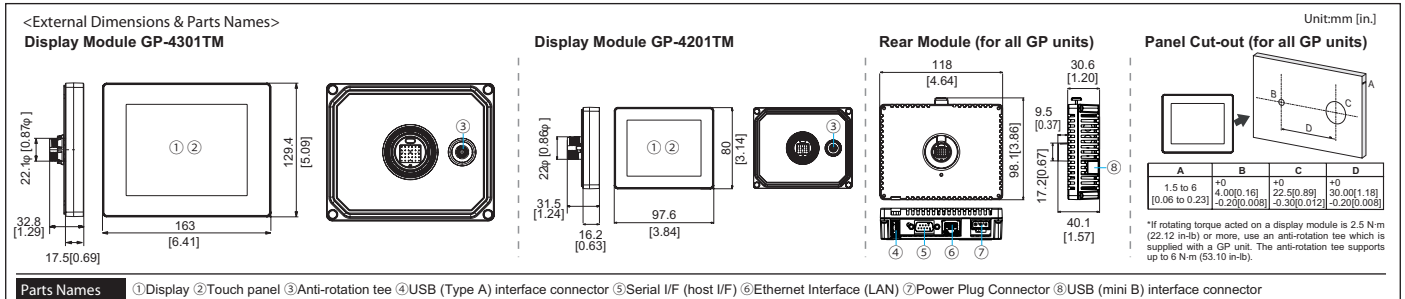
More drivers under development Visit the Otasuke Pro! support website for the newest drivers and more detailed information! → <http://www.pro-face.com/otasuke/>

Functional Specifications	GP-4301TM	GP-4201TM
Display Type	5.7" TFT Color LCD	3.5" TFT Color LCD
Display Colors	65,536 colors	
Resolution	320 x 240 pixels (QVGA)	
LED Backlight	White LED	
Effective Display Area	W115.2 x H86.4 mm(W4.53xH3.40 in.)	W70.56 x H52.92 mm(W2.78xH2.08 in.)
Language Fonts *1	Japanese, English, 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 127 pixel fonts, Image font: 8 to 72 pixel fonts	
Application memory *2	FLASH EPROM 8 MB	
Clock Accuracy	Uses the clock of an external device	
Touch Panel Type	Resistive Film (analog)	
Interface	Ethernet (LAN)	IEEE802.3i/ IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (RJ-45) x 1
	Serial (COM)	RS232C / RS422 / RS485 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 187,500 bps D-Sub 9 pin (plug)
	USB (Type A)	Conforms to USB2.0 (Type A) x 1, Power Supply Voltage: DC 5 V 5 %, Communication Distance: 3 m (9.84 ft) or less
	USB (Type mini B)	Conforms to USB2.0 (mini B) x 1, Communication Distance: 5 m (16.40 ft) or less

General Specifications	GP-4301TM	GP-4201TM
International Safety Standards		
Conforming Standards	UL508, UL 1604 *3 or ANSI/ISA 12.12.01*3, CSA-C22.2 No.142, CSA-C22.2 No.213 *3, 2004/108/EC EMC Directive, GOST-R, KC	
Input Voltage	DC24V	
Power Consumption	6.8 W or less	6.5 W or less
Surrounding Air Temperature	0 to 50 °C (32 to 122 °F)	
Grounding	Functional grounding: Grounding resistance of 100Ω, 2mm2 (AWG 14) or thicker wire, or your country's applicable standard.	
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/s ² , X, Y, Z directions for 10 cycles (100 min)	
Structure	NEMA#250 Type 4x (indoor, installed in an enclosure) Display Module: IP 65f (IEC60529) Rear Module: IP 20 (IEC 60529)	
Weight	0.62 kg (1.36 lb.) or less (main unit only)	0.36 kg (0.79 lb.) or less (main unit only)
Cooling Method	Natural air circulation	

*3 Suitable for use in hazardous locations in accordance with Class ,Division 2 Groups A, B, C and D standards.

*1 Please refer to the GP-Pro EX Reference Manual for details on font types and character codes.
*2 Capacity available for user application. The capacity depends on how many fonts you load from Editor software.



Units

Product Name	Model No.	Description
GP-4301TM	PFXGM4301TAD	5.7", QVGA (320 x 240 pixels), 65,536 colors, RS-232C/422/485, USB (Host x1, Device x1), Ethernet, DC24V
GP-4201TM	PFXGM4201TAD	3.5", QVGA (320 x 240 pixels), 65,536 colors, RS-232C/422/485, USB (Host x1, Device x1), Ethernet, DC24V

Option Items * We offer various cables for connections to control devices via serial interfaces. For details, please refer to the manual.

Product Name	Model No.	Description
GP-Pro EX	EXEDV**	Cable to convert the USB interface of a GP unit into a serial (RS-232C) interface.
Interface USB	USB Transfer Cable (USB Type A/mini B)(1.8 m)	CA5-USBEXT-01 Cable for transferring screen data from a PC (USB Type A) to the GP unit (USB mini B).
	USB Panel-mount Extension Cable (USB mini B) (1 m)	CA6-USB232-01 Extension cable attaching to the USB (mini B) interface on the front side of the operation panel.
	USB Front Cable (1m)	ZC9USCBMB1 Extension cable attaching USB interface to front panel.
	USB-Serial (RS-232C) Conversion Cable (0.5m)	ZC9USEXMB1 Screen editor software Ver.2.71 or later
GP unit Description Screen Protection Sheet	For GP-4301TM: PFXZCBDS61 For GP-4201TM: CA6-DFS4-01	Disposable, dirt-resistant sheet for the GP unit's screen. (5 sheets/set) (Hard type)
Accessories Kit	PFXZGMAK1	Anti-rotation Tee*1, USB cable clamp to prevent disconnection (USB Type A*1, Mini B, for 1 port), 2mm-height spacer to adjust installation panel thickness (1pc/each)

*1 Please purchase when the product is damage or lost.

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

Product Name	Model No.	Description
DC Power Supply Connector	PFXZGMNT1	Connector to connect DC power supply cables (5 pcs/set)
Display Installation Nut	PFXZGMSW1	Nut to install the display module (10 pcs/set)
Socket Wrench	PFXZGMCNDC1	Socket wrench to tighten and loosen the display installation nut (1 pc/set)

Proface_GP4000M_fi_1213



www.klinkmann.com

Helsinki
tel. +358 9 540 4940
automation@klinkmann.fi

Yekaterinburg
tel. +7 343 287 19 19
yekaterinburg@klinkmann.spb.ru

Vilnius
tel. +370 5 215 1646
post@klinkmann.lt

St. Petersburg
tel. +7 812 327 3752
klinkmann@klinkmann.spb.ru

Samara
tel. +7 846 273 95 85
samara@klinkmann.spb.ru

Tallinn
tel. +372 668 4500
klinkmann.est@klinkmann.ee

Moscow
tel. +7 495 641 1616
moscow@klinkmann.spb.ru

Kiev
tel. +38 044 495 33 40
klinkmann@klinkmann.kiev.ua

Riga
tel. +371 6738 1617
klinkmann@klinkmann.lv

Minsk
tel. +375 17 200 0876
minsk@klinkmann.com