

Modular Type Graphic Operator Interface

GP4000M SERIES

65,536-color,
clear TFT LCD display
for enhanced operation



GP-4201TM

3.5"
QVGA



GP-4301TM

5.7"
QVGA

Easy to identify

Easy to install

Easy to connect

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.



Low Power Consumption

5.7" 6.8 W or less
3.5" 6.5 W or less

Light Weight

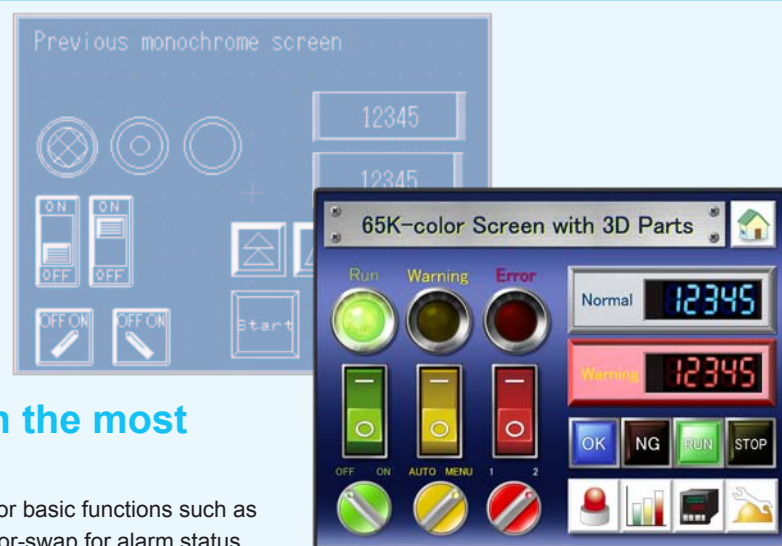
5.7" 0.62 kg (1.36 lb.) or less
3.5" 0.36 kg (0.79 lb.) or less

*main unit only

Easy to identify

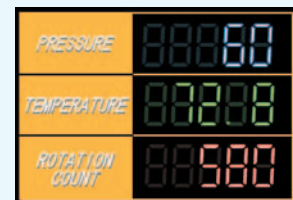
Powerful TFT LCD expression in 65,536 colors

Realize expressive operation screens using 65,536-color and 3D Real Parts.

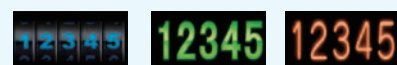


Use the project converter to distribute screens assets with GP-Pro EX.

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.

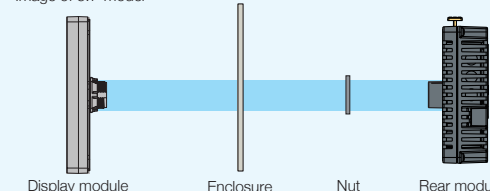


A variety of graphical fonts provides easy-to-read numbers.

Easy to install

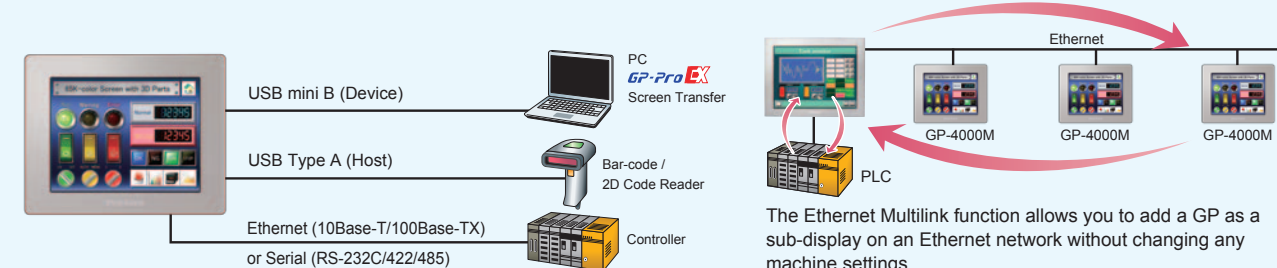
Just make a $\phi 22$ mm [0.87 in.] circular hole.

* Image of 5.7" model



Easy to connect

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



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.

| As of July 2011 | | | |
|---|---------------------------------|-----------------|---------------------|
| 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 | ● | ● |
| Fuji Electric Co., Ltd. | MICREX-F Series SIO | ● | ● |
| | 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 INDUSTRIES CO., LTD. | KOSTAC/DL Series CCM SIO | ● | ● |
| LS Industrial Systems Co., Ltd. | MASTER-K Series MODBUS TCP | ● | ● |
| | MASTER-K Series Cnet | ● | ● |
| | XGT Series Cnet | ● | ● |
| | XGT Series Fenet | ● | ● |
| Mitsubishi Electric Corporation | A Series CPU Direct | ● | ● |
| 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 QnA 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 | ● | ● |
| OMRON Corporation | C/CV Series HOST Link | ● | ● |
| | CS/CJ Series Ethernet | ● | ● |
| | CS/CJ Series HOST Link | ● | ● |
| Parasitic Electric Works SUNV Co., Ltd. | FP Series Computer Link SIO | ● | ● |
| RKC INSTRUMENT INC. | Temp. Controller MODBUS SIO | ● | ● |
| | Temp. Controller RKC SIO | ● | ● |
| Rockwell Automation, Inc. | DF1 | ● | ● |
| | DF1-485 | ● | ● |
| | EtherNet/IP | ● | ● |
| Schneider Electric SA | MODBUS SIO Master | ● | ● |
| | 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 | ● | ● |
| | MP Series SIO(Extension) | ● | ● |
| Yokogawa Electric Corporation | 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/>

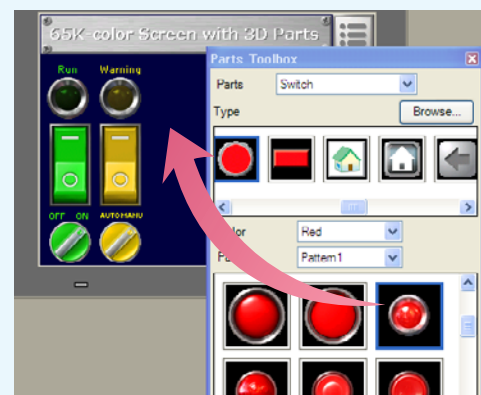
Easy to create

GP-Pro EX Ver. 2.71 or later

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

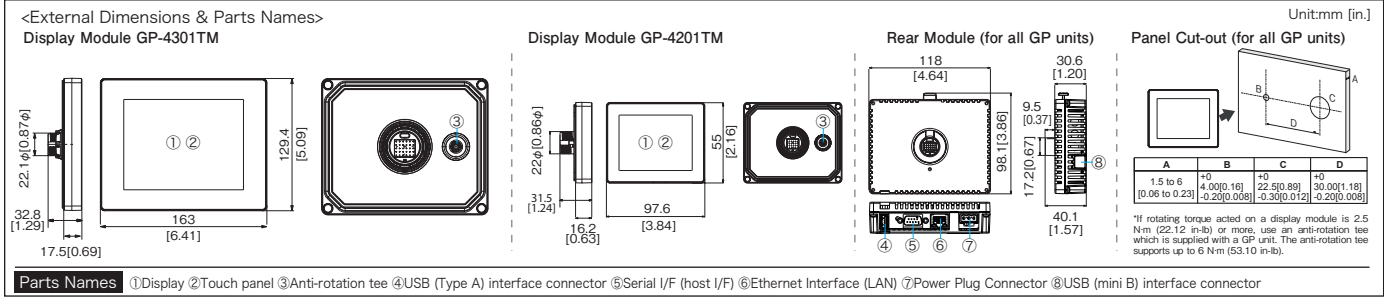
In addition, it's easy to create attractive screens by downloading backgrounds and illustrations online.

<http://www.proface.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(W4.53×H3.40 in.) | W70.56 x H52.92 mm(W2.78×H2.08 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 Connector: 2-piece terminal block 9 pin | |
| | 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 | |

*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 dots), 65,536 colors, RS-232C/422/485, USB (Host x1, Device x1), Ethernet, DC24V |
| GP-4201TM | PFXGM4201TAD | 3.5", QVGA (320 x 240 dots), 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. *** is changed with the version of software.

| Product Name | Model No. | Description |
|---|--|---|
| GP-Pro EX | EXEDV** | Screen editor software Ver.2.71 or later |
| Interface USB | USB Front Cable (1m) | CA5-USBEXT-01 Extension cable attaching USB interface to front panel. |
| | USB-Serial (RS-232C) Conversion Cable (0.5m) | CA6-USB232-01 Cable to convert the USB interface of a GP unit into a serial (RS-232C) interface. |
| | USB Transfer Cable (USB Type A/mini B)(1.8 m) | ZC9USCBMB1 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) | ZC9USEXMB1 Extension cable attaching to the USB (mini B) interface on the front side of the operation panel. |
| GP unit Description Screen Protection Sheet | For GP-4201TM For GP-4301TM | CA6-DFS4-01 PFXZCBDS61 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

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

!

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.

● Human user screens may differ from the screens shown here.

● All product names used in this catalog are the registered trademarks or trademarks of their respective companies.

● All information contained in this catalog is subject to change without notice.

Pro-face Pro-face is a registered trademark of Digital Electronics Corporation in Japan, U.S.A., Canada, Europe and other areas and countries.

Technical Support Web

Otasuke Pro!

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

Global Head Office

Digital Electronics Corporation

[JAPAN] Tel: +81-(0)6-6613-3116

[AUSTRALIA] Tel: +61 (0)3 9550 7395,

[DENMARK] Tel: +45 70 22 01 22,

[GERMANY] Tel: +49 (0)212 258 260,

[POLAND] Tel: +48 22 465 66 62,

[SPAIN] Tel: +34 (0)93 846 07 45,

[TAIWAN] Tel: +886-(0)2-2657-1121,

North/South American Head Office

Pro-face America, Inc.

[U.S.A.] Tel: +1-734-429-4971

[AUSTRIA] Tel: +43 7236 3343 620,

[ENGLAND] Tel: +44 (0)2476 511288,

[INDIA] Tel: +91 80 3066 7454/7456,

[RUSSIA] Tel: +007(812)336 47 06,

[SWEDEN] Tel: +46 46 540 90 70,

[THAILAND] Tel: +66-(0)2-617-5678

European Head Office

Pro-face Europe B.V.

[THE NETHERLANDS] Tel: +31 (0)23 55 44 094

[CHINA] Tel: +86-(0)21-6361-5175,

[FRANCE] Tel: +33 (0)1 60 21 22 91,

[ITALY] Tel: +39 0362 59 96 1,

[SOUTH KOREA] Tel: +82-(0)2-2630-9850,

[SWITZERLAND] Tel: +41 (0)43 343 7272,

[SINGAPORE] Tel: +65 6832 5533

©2011.08 Digital Electronics Corporation. All rights reserved.

WI/WI1108-GP4000MALL-01E03