Pro-face
for the best interface

GP4000SERIES

http://www.profaceamerica.com/

The New Pro-

Introducing the GP4000 SERIES

Easy to Identify, Easy to Use

Operators can easily monitor machine conditions and the plant floor situation in real time using realistic 3D buttons, lamps, and gauges.

Features 65,536-color TFT standard

Energy Saving

The GP4000 Series contributes to reducing on-site power consumption in a variety of ways including an on-board LED backlight in all models, and an optional dimmer setting used to decrease and eventually stand-by the display after being idle for a set period of time.

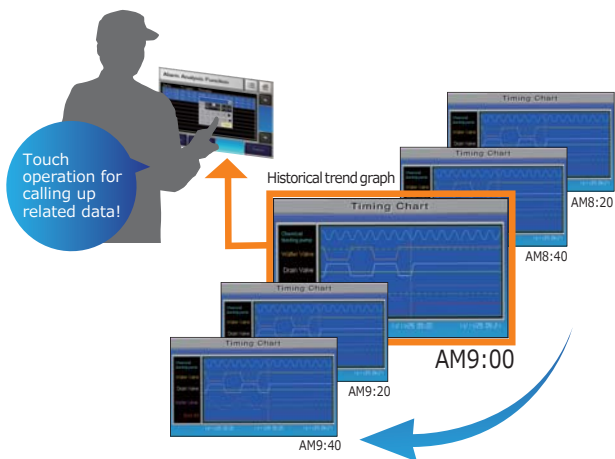The display unit automatically cuts down on wasteful power consumption!

Normal screen

Modulated light (low brightness)

Standby (screen turned off)
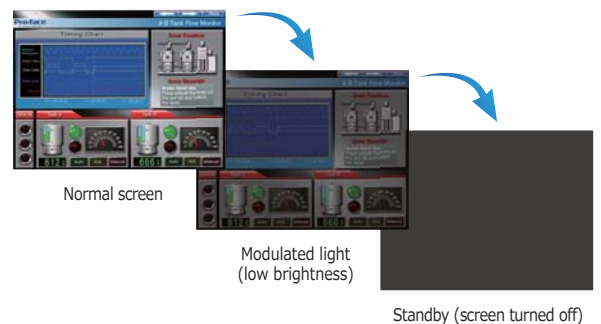
Standard equipped with LED backlight LCD + optional Dimmer setting

face Standard

Quick On-site Recovery

Simply touch the alarm message to check
the relevant data
in chronological sequence.

Touch operation for calling up related data!

Historical trend graph

AM8:20
AM8:40
AM9:00
AM9:20
AM9:40

Alarm Analysis function

Remote Monitoring

The GP-Viewer EX software provides various
remote monitoring functions, such as checking
the screen of the GP located on a production site
from a remote office.

Office

Production Site
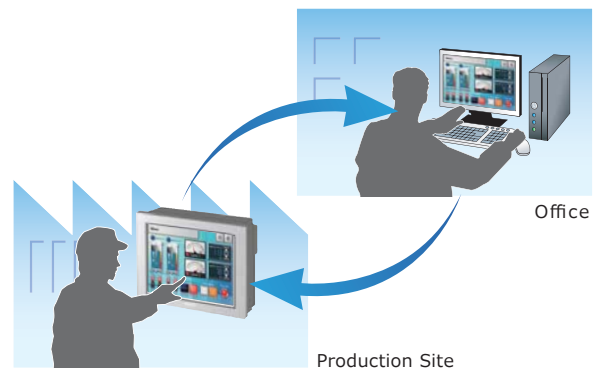
**Ethernet I/P featured
as standard**

Lineup

Standard Model

12.1-inch
Standard Model

AC 100-240V
DC 24V

GP-4601T ／ GP-4603T
(Isolated MPI Communication Port)

10.4-inch
Standard Model

AC 100-240V
DC 24V

GP-4501T ／ GP-4503T
(Isolated MPI Communication Port)

Display (Resolution)	65,536-color TFT (640 x 480 pixels)	65,536-color TFT (640 x 480 pixels)
Brightness Control	16-level Brightness	
Touch Panel Type	Analog or Matrix (Supports 2 point touch)	
Memory	FEPROM 32MB (Application Memory), 320KB (Backup for HMI), 64KB (Backup for Control)	
Ethernet	x1 (IEEE802.3i / IEEE802.3u,10BASE-T/100BASE-TX)	
SIO	COM x 2	
SD Card Slot	x 1	
USB	USB Type-A (2.0) x 1, USB mini-B (2.0) x 1	
Replaceable Battery	Yes	

GP-Pro EX

HMI Screen Editor & Logic Programming Software

Use with the entire Pro-Face line-up through optimized drag and drop operation, and a abundant variety of program-free connection methods to a wide range of devices.

W Model

10.4-inch
W Model

DC 24V

GP-4501TW

Display (Resolution)	65,536-color TFT (640 x 480 pixels)
Brightness Control	8-level Brightness
Touch Panel Type	Analog
Memory	FEPROM 16MB (Application Memory), 128KB (Backup for HMI)
Ethernet	x1 (IEEE802.3i / IEEE802.3u,10BASE-T/100BASE-TX)
SIO	COM x 2
SD Card Slot	x 1
USB	USB Type-A (2.0) x 1, USB mini-B (2.0) x 1
Replaceable Battery	Yes

Standard Models

7.5-inch Standard Model — DC 24V — GP-4401T	5.7-inch Standard Model — DC 24V — GP-4301T／GP-4303T (Isolated MPI Communication Port)	3.5-inch Standard Model — DC 24V — GP-4201T／GP-4203T (Isolated MPI Communication Port)
65,536-color TFT (640 x 480 pixels)	65,536-color TFT (320 x 240 pixels)	
16-level Brightness		
Analog		
FEPROM 32MB (Application Memory), 320KB (Backup for HMI), 64KB (Backup for Control)	FEPROM 16MB (Application Memory), 320KB (Backup for HMI), 64KB (Backup for Control)	
x1 (IEEE802.3i / IEEE802.3u,10BASE-T/100BASE-TX)		
COM ×2		COM ×1
x 1		No
USB Type-A (2.0) x 1, USB mini-B (2.0) x 1		
Yes		When replacement is required,contact your Pro-face sales.

W Models

7.0-inch W Model — DC 24V — GP-4401WW	5.7-inch W Model — DC 24V — GP-4301TW	3.5-inch W Model — DC 24V — GP-4201TW
65,536-color TFT (800x 480 pixels)	65,536-color TFT (320 x 240 pixels)	
8-level Brightness		
Analog		
FEPROM 16MB (Application Memory), 128KB (Backup for HMI)	FEPROM 8MB (Application Memory), 128KB (Backup for HMI)	
x1 (IEEE802.3i / IEEE802.3u,10BASE-T/100BASE-TX)		No
COM x 2		
×1	No	
USB Type-A (2.0) x 1, USB mini-B (2.0) x 1		

Lineup

	5.7-inch DC 24V Modular Type GP-4301TM	3.5-inch DC 24V Modular Type GP-4201TM	3.4-inch DC 24V Compact Type GP-4100
Modular Type Compact Type			

|			
Display (Resolution)	65,536-color TFT (320 x 240 pixels)		Monochrome LCD (200 x 80 pixels)
Brightness Control	16-level Brightness		
Touch Panel Type	Analog		
Memory	FEPROM 8MB (Application Memory), Equivalent to 128kb ※1 (Backup for HMI)		FEPROM 2.2MB (Application Memory), Equivalent to 128kb ※1 (Backup for HMI)
Ethernet	x1 (IEEE802.3i / IEEE802.3u,10BASE-T/100BASE-TX)		x1 (IEEE802.3u,10BASE-T/100BASE-TX) ※2
SIO	COM ×1		COM ×1 ※3
SD Card Slot	No		
USB	USB Type-A (2.0) x 1, USB mini-B (2.0) x 1		
Replaceable Battery	When replacement is required,contact your Pro-face sales.		

*1: Application Memory can provide 128kb for Data Backup. For supported features, please refer to GP-Pro EX Reference Manual. *2: GP-4104 Only *3: Excluding GP-4104
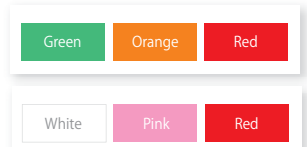
Modular type for easy mounting

GP4201M and GP4301M only

Ø 22 mm
[0.87in.]
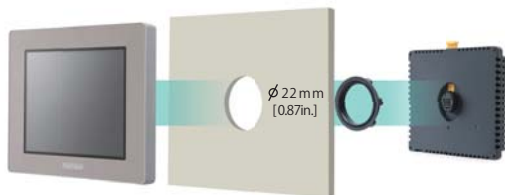
Compact display for various applications
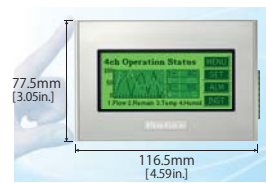
※Select between two patterns of 3-color switchable backlights

77.5mm
[3.05in.]

116.5mm
[4.59in.]

Green	Orange	Red

White	Pink	Red

Ethernet Multi-Link function

The Ethernet Multi-Link function allows you to easily add a GP as a sub-display to the facility without changing any settings of the control device.
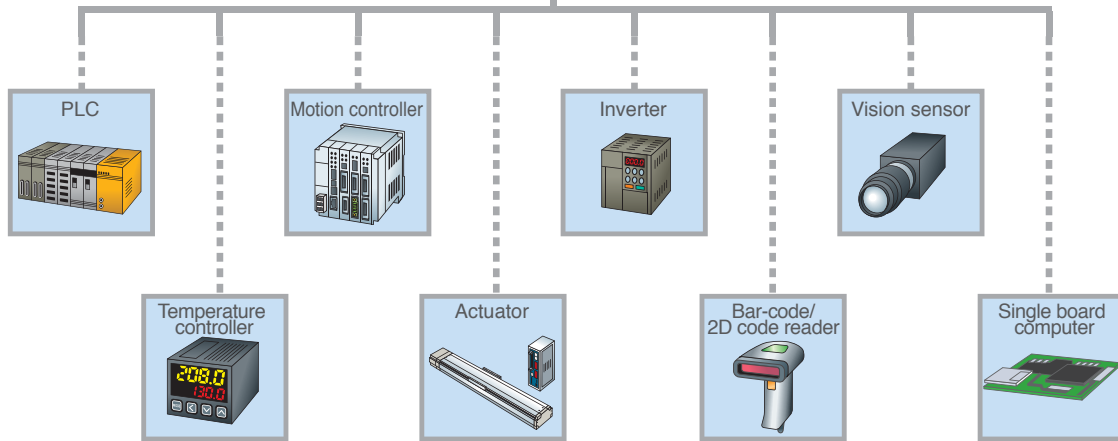
Master

Ethernet

Slave   Slave   Slave

Control device
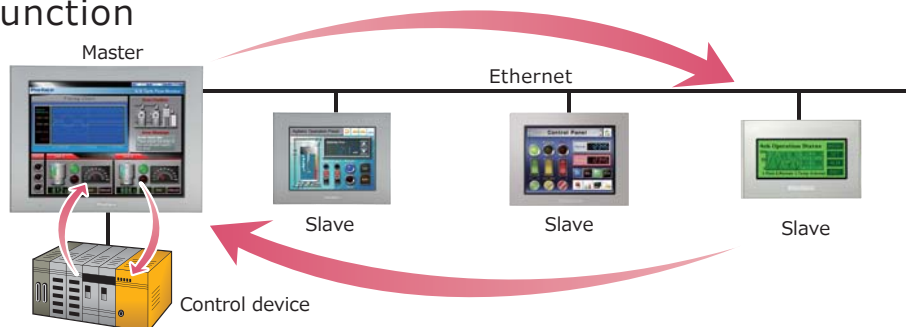
More functions for more applications

An extensive driver list allows you to connect various devices
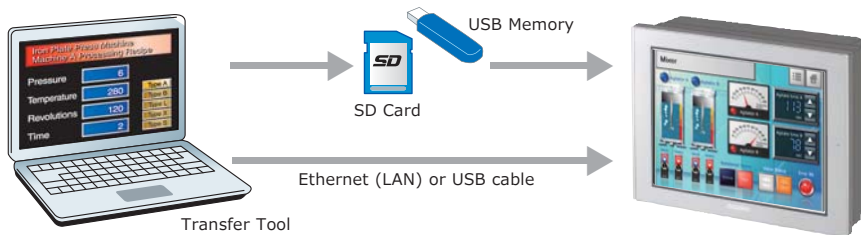
The GP4000's ability to connect to various devices and support a wide range of drivers, allows simultaneous communications between multiple protocols.

One HMI can "talk to" your preferred PLC, a vision system, and a motion controller!

PLC
Motion controller
Inverter
Vision sensor

Temperature controller
Actuator
Bar-code/2D code reader
Single board computer

Screen data can be updated by using the data transfer tool, even without a software license.

USB Memory

SD Card

Ethernet (LAN) or USB cable

Transfer Tool

The data transfer tool can be downloaded for free from the Web

http://www.profaceamerica.com/

Conforms to overseas standards for hassle-free export and use with overseas equipment

IP65f Front Enclosure
NEMA#250 TYPE 4X/13*

*Planned to acquire UL/cUL Hazardous Locations and ATEX by 2012

The GP4000 series comes equipped with a replaceable primary battery, which helps the HMI maintain an ambient operating temperature of 0 to 55ºC [32 to 131 F°] even in adverse environments.

·GP-4601T、GP-4603T
·GP-4501T、GP-4503T
·GP-4401T、GP-4301T
·GP-4303T

GP-Pro EX

One development software for both dedicated and open windows-based operator interfaces.

Individual functions can be selected at a glance using these icons.

Created screens can be visually selected using the thumbnail view.

A screen call menu can be displayed.
If you activate the screen call function while creating a screen, the called screen is moved below, and displayed as a thumbnail.

The editing screen can be customized to give one click access to frequently used

A·B Tank Monitor

Various graphs such as trend graphs can be placed on the screen.

Your search can be narrowed to select the best parts suited for the application.

Frequently-used functions can be assigned to function keys, making mouse-free editing possible.

Creating great HMI applications doesn't have to be hard.

Intuitive Self-Guiding HMI Software

Four Easy Steps

1. Set up communications
- Choose and set up PLC and third-party devices effortlessly
- System settings are logically arranged and easy to find

2. Design application/screens
- Drag-and-drop addressing, parts and colors
- Efficient features to reduce development time
- Create consistent look and feel using the user-defined templates

3. Simulate and test
- Verify before you travel
- Debug your application without hardware
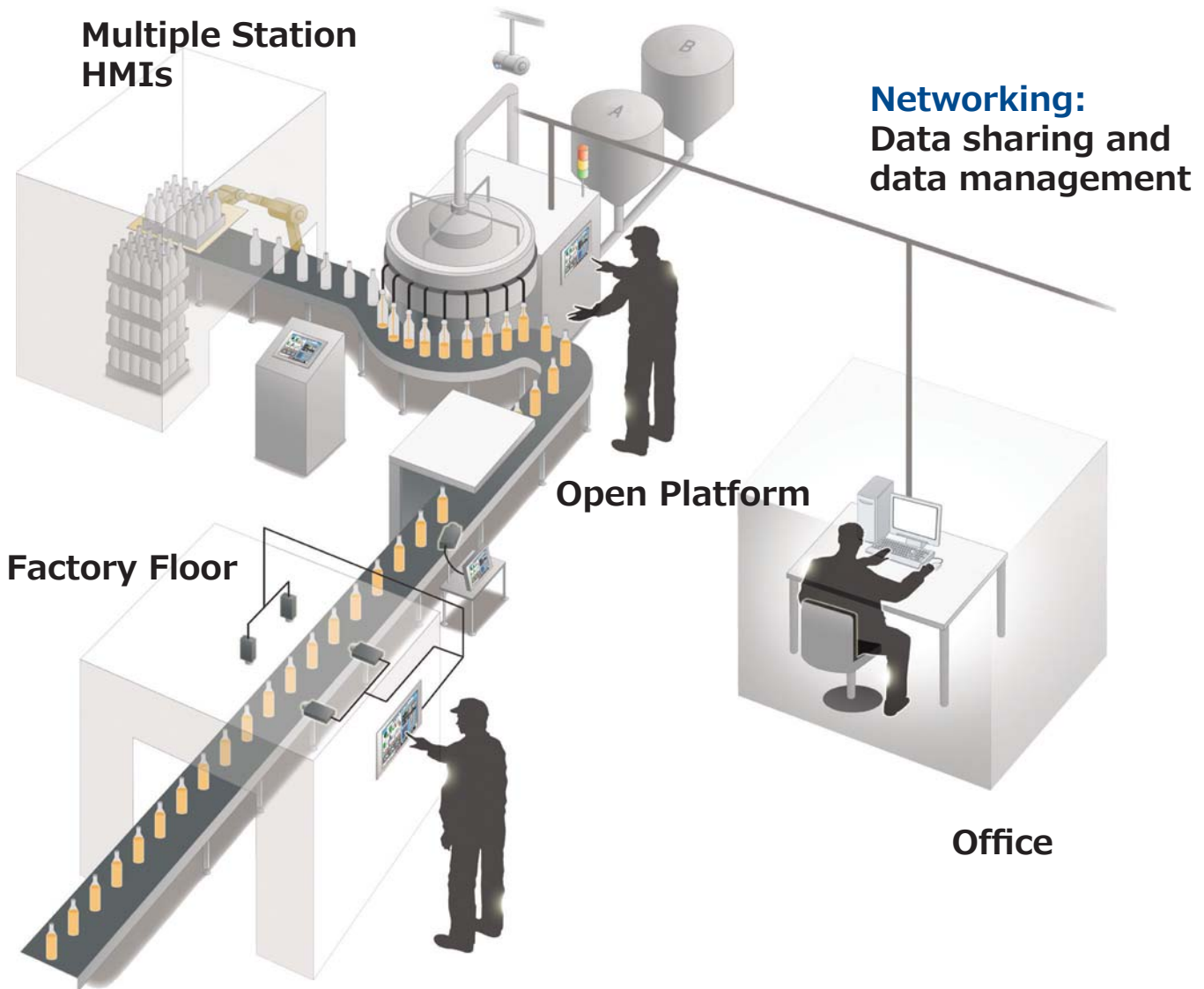- Test without downloading

4. Download/transfer
- Tamper-proof HMI application – password-protected project source

Innovations in Visualization Solutions

Simple to Complex Visualization Applications

Visualization Development Solutions

One Development Software

Multiple Station HMIs

Networking:
Data sharing and data management

Open Platform

Factory Floor

Office

Flexible and Friendly HMI Development Environment

Outstanding Support

√ **No Phone Bouncing**
√ **No Contracts**
√ **No Hassles**

Outstanding Technical Services

Pro-face is committed to delivering excellent technical support whether you are local or abroad. We have trained specialists both in-house and in the field.

Better than Basic Support Services:

- Product level Technical Support
- Component Selection recommendations
- Compatibility testing to customer hardware
- Product Migration Compatibility Assistance
- Pros and Cons of IPC vs Dedicated HMI

Proof-of-Concept Assistance:

- Perform project setup and debug
- HMI Application Project Analysis
- Application Conversion assistance for smooth transition to Pro-face

Speak with a live Support Engineer who will solve your problem within 24 hours 95% of the time, or for those challenging issues in 72 hours 99% of the time without an expensive service contract.

We Have Your Answers

Free **Our Technical Support web site contains a vast resource of product and application knowledge.**

Everything you expect plus:

- Sample HMI applications and more graphics
- Frequently asked questions and application notes
- Product certifications and migration guides
- New and enhanced communication drivers

Training That Makes A Difference

Superb Training

HMI is not just about buttons and lamps. Save hours of struggling trying to learn how to take advantage of advanced features like recipes, trending and video playback/recording.

Let Our Experts Help You:

- Our staff includes highly trained and field experienced solution engineers
- We use working hardware and software
- We use full agenda courses for maximum benefit
- We teach from beginner to advanced levels
- We help as you progress creating your HMI solution
- We show you how to network your factory floor information with your Enterprise business system

Flexible Training Options*:

- √ Regional hands-on training
- √ On-site classroom training
- √ Pro-face sponsored webinars
- √ Remote access one-on-one training
- √ *Free* self-paced online training

* Some training provided at a modest price.

Pro-face training options and tools not only save time, but also shows you how to achieve maximum operator interface performance.

We're Here When You Need Us

Pro-face Free Learning Center is available 24/7. If you are a beginner developing HMI applications you will find this resource invaluable. Advanced users can take advantage of our HMI time saving tips and tricks.

- Topic based quick start guides
- Self-study textbook tutorials
- Video and podcast-based training modules
- Advanced tips/tricks techniques collection

Skills

Pro-face

for the best interface

Pro-face
for the best interface

We are always striving to connect customers to their clients, processes, and people through high quality products, and service and support from around the world.

We provide our best possible support for each and every individual customer.

Our Environmental Policy and Compliance with the RoHS Directive

Pro-face has taken significant steps to meet increasingly stringent requirements for environmental preservation and has sought to comply with the RoHS Directive by adopting measures to eliminate specified harmful substances from existing products and products to be manufactured and sold beginning in 2006. For details, please refer to our web site or contact our sales office in your country.

ACCESSII

www.profaceamerica.com
Global Network and Global Support

⚠ WARNING

HAZARD OF OPERATOR INJURY,OR UNINTEDED EQUIPMENT DAMAGE

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

Failure to follow these instruction 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.
- Electric equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Digital for any consequences arising out of the use of this material.
- 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.

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