Pro-face

for the best interface ▶

2015 Catalog

HMI and Industrial PC Solutions

Pro-face
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HMI Screen Editor & Logic Programming Software

GP-Pro EX +

Create Your HMI Application in Minutes ▶

GP-Pro EX is the easy-to-use development software for Pro-face HMI and IPC units. With a wide array of application development tools, expanded diagnostic features and simulation capabilities, GP-Pro EX is capable of handling the most demanding HMI applications.

Set up communications

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

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

Simulate and test

- Verify before you travel
- Debug your application without hardware
- Test without downloading

Download/transfer

- Tamper-proof HMI application – password-protected project source

One development software for both dedicated and open windows-based operator interfaces.
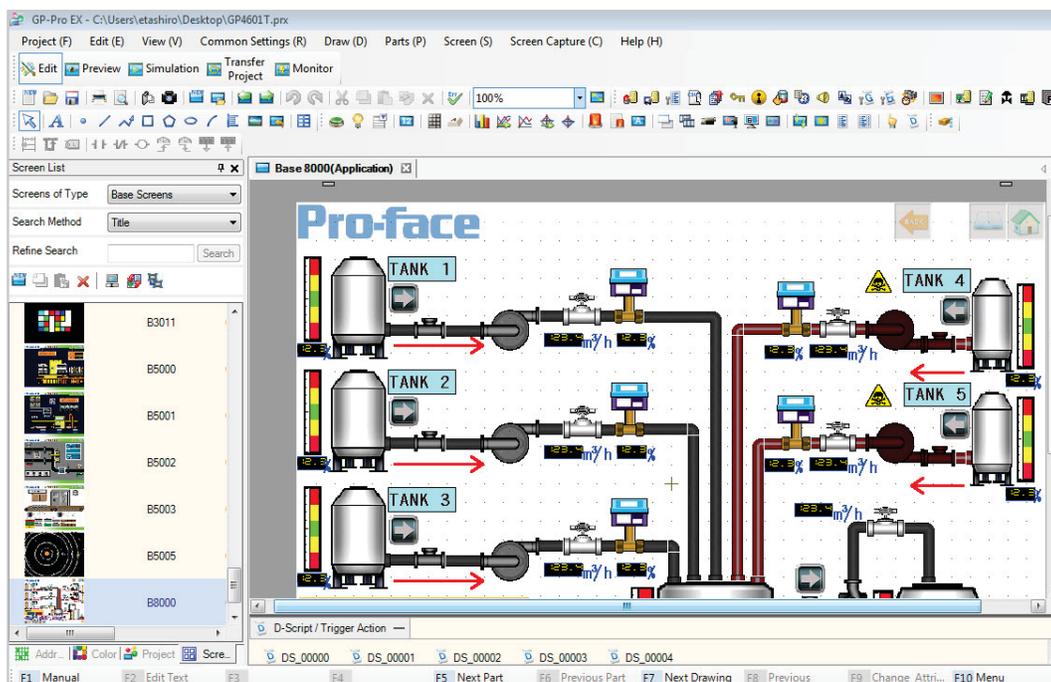
View over 40 GP-Pro EX technical videos on YouTube.

GP-Pro EX Playlist

Download the Pro-face Software Guide on iTunes or Google Play.

Pro-face Software Guide +

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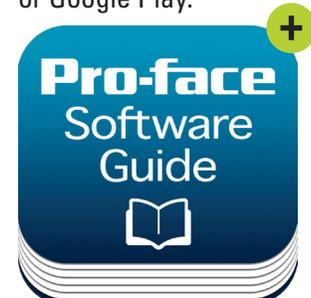
Data management software

Pro-Server EX +

Enterprise-wide data collecting, sharing, connectivity solution ▶

- Applications
- Collect and Manage Data
- Connectivity Support

Control Room

Pro-face open- platform HMI

Plant Floor

Application software for sharing user-defined factory-floor data throughout the corporate enterprise

+ GP-Viewer
▶ Monitor and Control Multiple Operator Interfaces from a Single Remote PC.

+ Camera Viewer
▶ Record, Display and Playback Live Video of Industrial Operations on a Remote PC.

+ Pass Through
Programming and monitoring PLC via operator interface.

+ Remote PC Access
Harness the power of a PC from your dedicated HMI.

+ Memory Loader
Field maintenance and backup with data protection.

+ Transfer Tool
Easy machine maintenance and data log retrieval.

+ WebServer
View HMI information and alerts through a web browser.

+ Remote HMI
▶ Monitor & control HMI screens from a smart phone or tablet (data input, send work instruction, etc.).

+ WinGP
▶ Runtime software for GP-Pro EX created applications.

+ FTP Server
Upload and download data files to the operator interface over the internet.

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Pro-face Remote HMI +

Monitor and Control Pro-face HMI screen on a smart phone or a tablet.

Efficient
See machine information anywhere without going to the spot, saving you travel time.

Effective
Able to monitor status of multiple machines (up to 100) by one Pro-face Remote HMI.

Easy Set Up
GP-Pro EX software facilitates easy set up and activation of Pro-face HMI.

Interactive
Besides monitoring, you can control the machine from your tablet or smart phone (data input, send work instruction, etc.).

Available on the App Store

GET IT ON Google play

Quick steps to use Pro-face Remote HMI

STEP1

Hardware Preparation

Prepare Wireless Router and connect to HMI.

Wireless Router (Commercial Product)

LAN cable
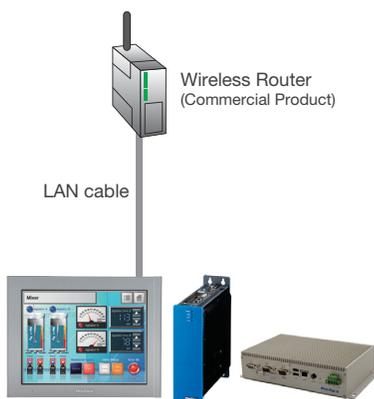
STEP2

Transfer Project File

Adjust application in GP-Pro EX and transfer it to HMI.

Transfer Tool

USB Memory

Ethernet (LAN) or USB cable

SD Card
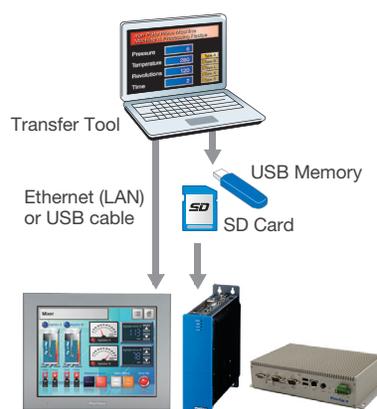
STEP3

Install Remote HMI on a tablet or smartphone

Download and install Pro-face Remote HMI on a tablet or smartphone. Search HMI and connect to monitor the HMI screen.

*Remote HMI Server license is required separately to monitor IPC and PC.

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Monitor and Control Pro-face HMI screen on a smart phone or a tablet.

Download Pro-face Remote HMI today!

Screen Shortcut

Images or text of machines to monitor can be registered as shortcuts to easily jump from one HMI to another among multiple applications, for various working enviornments.

Alarm Monitor Function

Indicating the status of each HMI in the overview reduces the time for identifying the faulty system and further reduces the downtime and associated costs. Besides the status bar for each HMI, any alarm can also trigger an alarm sound.

Running   Alarm   OFF

Touch Exclusive Control

Setting the monopolize touch function prevents unexpected operational misuses caused by redundant operation. Operation is re-enabled only 30 seconds after Pro-face Remote HMI or the HMI unit on the equipment has been operated.

Touch   Touch Disabled

Touch Disabled   Touch

Synchronized or Asynchronized

Switch communication modes to monitor status. Synchronous mode allows you to monitor screens that are the same as the operators' screens. Asynchronous mode allows you to monitor different screens during regular operation without stopping on-site operation.

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GP4000 Standard

Description

Best in Class Connectivity, Powerful HMI Functionality and Full Compatibility with legacy Pro-face GP-Pro EX and GP3000 products. GP4000 HMI drivers allow you to "talk to" your preferred PLC, vision system, motion controller, temperature controller, inverter, bar code reader, and actuator.

Easy to Use: Operators can easily monitor conditions and the operating environment in real time using realistic 3D buttons, lamps, and gauges.

Saves Energy: Reduces on-site power consumption in a variety of ways including an on-board LED backlight in all models, and a dimmer setting used to decrease and eventually stand-by the display after being idle for a set period of time.

Quick On-site Recovery: Simply touch the alarm message to check the relevant data in chronological sequence.

Remote Monitoring: 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.

Features

• 65,536 Colors, Clear, Bright, High-Resolution TFT Display

• Energy Efficient LED Display

• No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement

• Supports Up to Two Protocol Drivers Simultaneously

• High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces

• 10/100 Base-T Ethernet, USB, and Serial Communication Interfaces

• High-Definition Part Images and Multi-Language Support

• Custom Overlays available

• Remote HMI compatability (tablet/phone)

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3.5″ Standard – GP4000

Analog Touchscreen Operator Interface
with USB and Serial Communication Ports

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVGA)
Display Type and Size	TFT Color LCD (3.5″)
Display Colors	65,536 Colors (no blink) / 16,384 Colors (blink)
Display Area	W 70.56 x H 52.92 mm [W 2.78 x H 2.08 in]
Touch Screen	Resistive Film (analog)
Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CCE, CSA, UL Listed C1D2, RoHS, ABS, DNV, ATEX
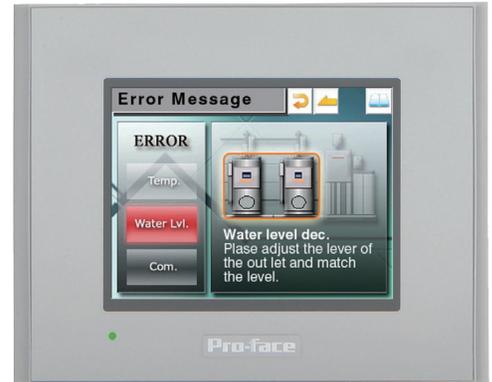
Product Specifications

Part Number to Order	PFXGP4201TADW	PFXGP4201TAD	PFXGP4203TAD
SD Card	No	No	No
Serial Ports (COM1)	RS-232C	RS-232C / 422 / 485	RS-485 (isolation)
Serial Ports (COM2)	RS-422/485	n/a	n/a
Ethernet	n/a	x1	x1
USB (1)	Type-A (2.0)	Type-A (2.0)	Type-A (2.0)
USB (2)	Mini-B (2.0)	Mini-B (2.0)	Mini-B (2.0)
Brightness / Contrast	8 levels of adjustment	16 levels of adjustment	16 levels of adjustment
Programming Memory	8mb Flash EPROM	16mb Flash EPROM	16mb Flash EPROM
Backup Memory	128kb SRAM w/ battery backup	320kb SRAM w/ battery backup	320kb SRAM w/ battery backup
Ambient Operating Temp	0 to 50° C [32 to 122° F]	0 to 50° C [32 to 122° F]	0 to 50° C [32 to 122° F]
Input Voltage	24 VDC	24 VDC	24 VDC
Power Consumption	9.6 W or less	9.6 W or less	9.6 W or less

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5.7" Standard – GP4000

Analog Touchscreen Operator Interface
with USB and Serial Communication Ports

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVGA)
Display Type and Size	TFT Color LCD (5.7")
Display Colors	65,536 Colors (no blink) / 16, 384 Colors (blink)
Display Area	W 115.2 x H 86.4 mm [W 4.54 x H 3.4 in]
Touch Screen	Resistive Film (analog)
Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2, RoHS, ABS, DNV, ATEX

Product Specifications

Part Number to Order	PFXGP4301TADW PFXGP4301TADWC*	PFXGP4301TAD PFXGP4301TADC*	PFXGP4303TAD
SD Card	No	x1	x1
Serial Ports (COM1)	RS-232C	RS-232C	RS-232C
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485	RS-485 (isolation)
Ethernet	x1	x1	x1
USB (1)	Type-A (2.0)	Type-A (2.0)	Type-A (2.0)
USB (2)	Mini-B (2.0)	Mini-B (2.0)	Mini-B (2.0)
Brightness / Contrast	8 levels of adjustment	16 levels of adjustment	16 levels of adjustment
Programming Memory	8mb Flash EPROM	16mb Flash EPROM	16mb Flash EPROM
Backup Memory	128kb SRAM w/ battery backup	320kb SRAM w/ battery backup	320kb SRAM w/ battery backup
Ambient Operating Temp	0-50° C [32 to 122° F]	0-55° C [32 to 131° F]	0-55° C [32 to 131° F]
Input Voltage	24 VDC	24 VDC	24 VDC
Power Consumption	10.5 W or less	10.5 W or less	10.5 W or less

* C suffix denotes product is conformal coated

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7.0" Standard (wide) – GP4000

Analog Touchscreen Operator Interface
with USB and Serial Communication Ports

General Specifications

Graphic Display Resolution	800 x 480 pixels (WVGA)
Display Type and Size	TFT Color LCD (7.0" Widescreen)
Display Colors	65,536 Colors (no blink) / 16, 384 Colors (blink)
Display Area	W 152.4 x H 91.44 mm [W 6.0 x H 3.6 in]
Touchscreen	Resistive Film (analog)
Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2, RoHS, ABS, DNV, ATEX

Product Specifications

Part Number to Order	**PFXGP4401WADW**
SD Card	x1
Serial Ports (COM1)	RS-232C
Serial Ports (COM2)	RS-422 / 485
Ethernet	x1
USB (1)	Type-A (2.0)
USB (2)	Mini-B (2.0)
Brightness / Contrast	8 levels of adjustment
Programming Memory	16mb Flash EPROM
Backup Memory	128kb SRAM with battery backup
Ambient Operating Temp	0-50° C [32 to 122° F]
Input Voltage	24 VDC
Power Consumption	12W or less

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7.5" Standard – GP4000

Analog Touchscreen Operator Interface
with USB and Serial Communication Ports

General Specifications

Graphic Display Resolution	640 x 480 pixels (VGA)
Display Type and Size	TFT Color LCD (7.5")
Display Colors	65,536 Colors (no blink) / 16, 384 Colors (blink)
Display Area	W 153.7 x H 115.8 mm [W 6.05 x H 4.56 in]
Touchscreen	Resistive Film (analog)
Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP65f, NEMA Type 4x/13
Certifications	CE, CSA, UL Listed C1D2, RoHS, ABS, DNV, ATEX

Product Specifications

Part Number to Order	PFXGP4401TAD
SD Card	x1
Serial Ports (COM1)	RS-232C
Serial Ports (COM2)	RS-422 / 485
Ethernet	x1
USB (1)	Type-A (2.0)
USB (2)	Mini-B (2.0)
Brightness / Contrast	16 levels of adjustment
Programming Memory	32mb Flash EPROM
Backup Memory	320kb SRAM with battery backup
Ambient Operating Temp	0-55° C [32 to 131° F]
Input Voltage	24 VDC
Power Consumption	12W or less

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10.4" Standard – GP4000

Analog Touchscreen Operator Interface with USB and Serial Communication Ports

General Specifications

Graphic Display Resolution	640 x 480 pixels (VGA)
Display Type and Size	TFT Color LCD (10.4")
Display Colors	65,536 Colors (No blink) / 16, 384 Colors (blink)
Display Area	W 211.2 x H 158.4 mm [W 8.31 x H 6.24 in]
Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140°F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2, RoHS, ABS, DNV, ATEX

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

PLC

Motion controller

Inverter

Vision sensor

Temperature controller

Actuator

Bar-code/ 2D code reader

Single board computer

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10.4" Standard – GP4000

Analog Touchscreen Operator Interface
with USB and Serial Communication Ports

Product Specifications

Part Number to Order	PFXGP4501TAA PFXGP4501TAAC*	PFXGP4501TAD PFXGP4501TADC*	PFXGP4501TMD
SD Card	x1	x1	x1
Serial Ports (COM1)	RS-232C	RS-232C	RS-232C
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485	RS-422 / 485
Ethernet	x1	x1	x1
USB (1)	Type-A (2.0)	Type-A (2.0)	Type-A (2.0)
USB (2)	Mini-B (2.0)	Mini-B (2.0)	Mini-B (2.0)
Touch Screen	Resistive Film (analog)	Resistive Film (analog)	Resistive Film (matrix)
Brightness / Contrast	16 levels of adjustment	16 levels of adjustment	16 levels of adjustment
Programming Memory	32mb Flash EPROM	32mb Flash EPROM	32mb Flash EPROM
Backup Memory	320kb SRAM w/ battery backup	320kb SRAM w/ battery backup	320kb SRAM w/ battery backup
Input Voltage	100-240 VAC	24 VDC	24 VDC
Ambient Operating Temp	0-55° C [32 to 131° F]	0-55° C [32 to 131° F]	0-55° C [32 to 131° F]
Power Consumption	100 Vac: <44VA 240 Vac: <58VA	17W or less	17W or less

* C suffix denotes product is conformal coated

Part Number to Order	PFXGP4501TMA	PFXGP4501TADW	PFXGP4503TAD
SD Card	x1	x1	x1
Serial Ports (COM1)	RS-232C	RS-232C	RS-232C
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485	RS-422 / 485 (isolation)
Ethernet	x1	x1	x1
USB (1)	Type-A (2.0)	Type-A (2.0)	Type-A (2.0)
USB (2)	Mini-B (2.0)	Mini-B (2.0)	Mini-B (2.0)
Touch Screen	Resistive Film (matrix)	Resistive Film (matrix)	Resistive Film (analog)
Brightness / Contrast Controls	16 levels of adjustment	8 levels of adjustment	16 levels of adjustment
Programming Memory	32mb Flash EPROM	16mb Flash EPROM	32mb Flash EPROM
Backup Memory	320kb SRAM w/ battery backup	128kb SRAM w/ battery backup	320kb SRAM w/ battery backup
Input Voltage	100-240 VAC	24 VDC	24 VDC
Ambient Operating Temperature	0-55° C [32 to 131° F]	0-50° C [32 to 122° F]	0-55° C [32 to 131° F]
Power Consumption	100 Vac: <44VA 240 Vac: <58VA	17W or less	17W or less

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12.1" Standard – GP4000

Analog Touchscreen Operator Interface
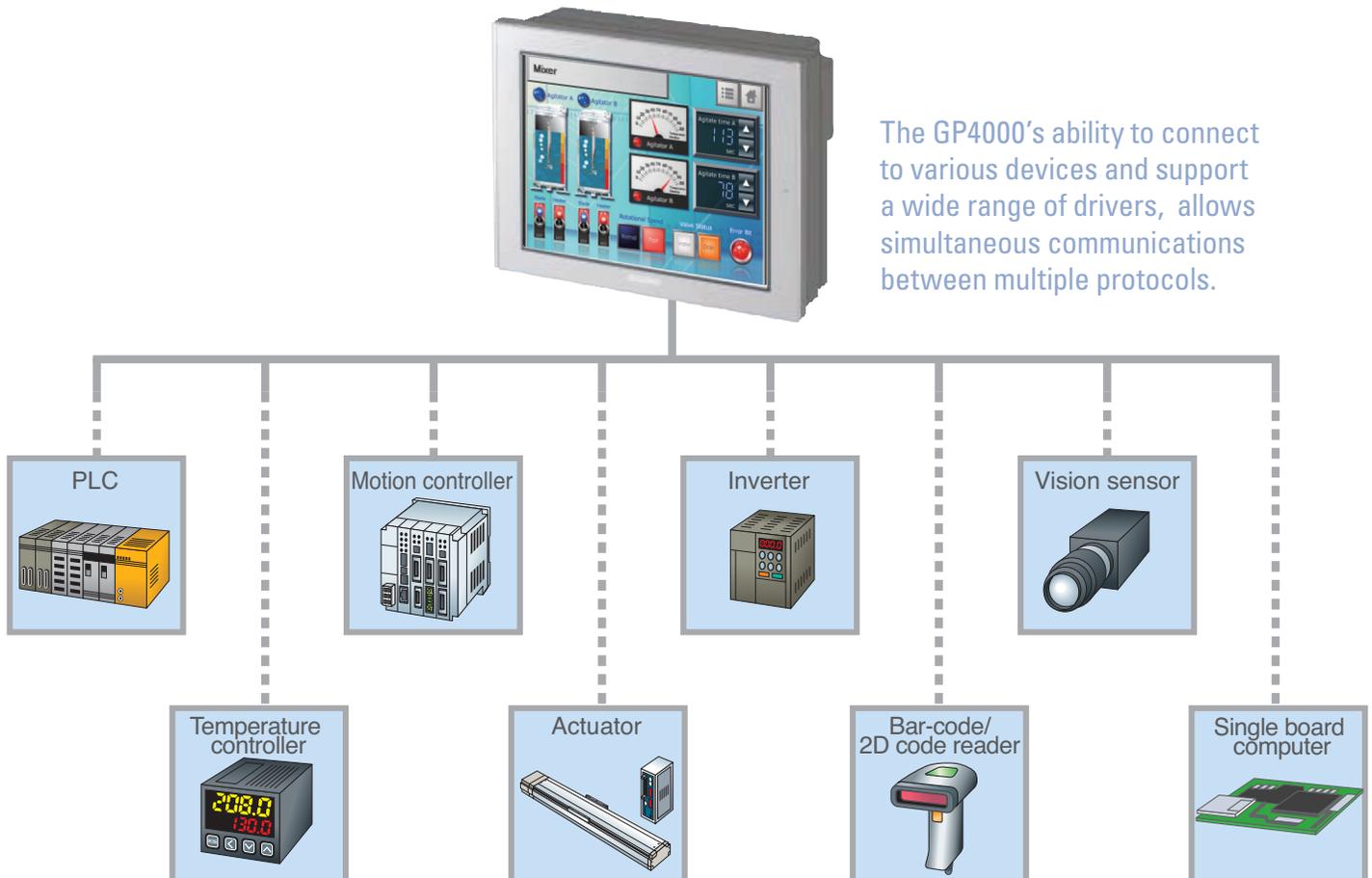with USB and Serial Communication Ports

General Specifications

Graphic Display Resolution	800 x 600 pixels (SVGA)
Display Type and Size	TFT Color LCD (12.1")
Display Colors	65,536 Colors (no blink) / 16, 384 Colors (blink)
Display Area	W 246.0 x H 184.5 mm [W 9.69 x H 7.26 in]
Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2, RoHS, ABS, DNV, ATEX

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

PLC

Motion controller

Inverter

Vision sensor

Temperature controller

Actuator

Bar-code/ 2D code reader

Single board computer

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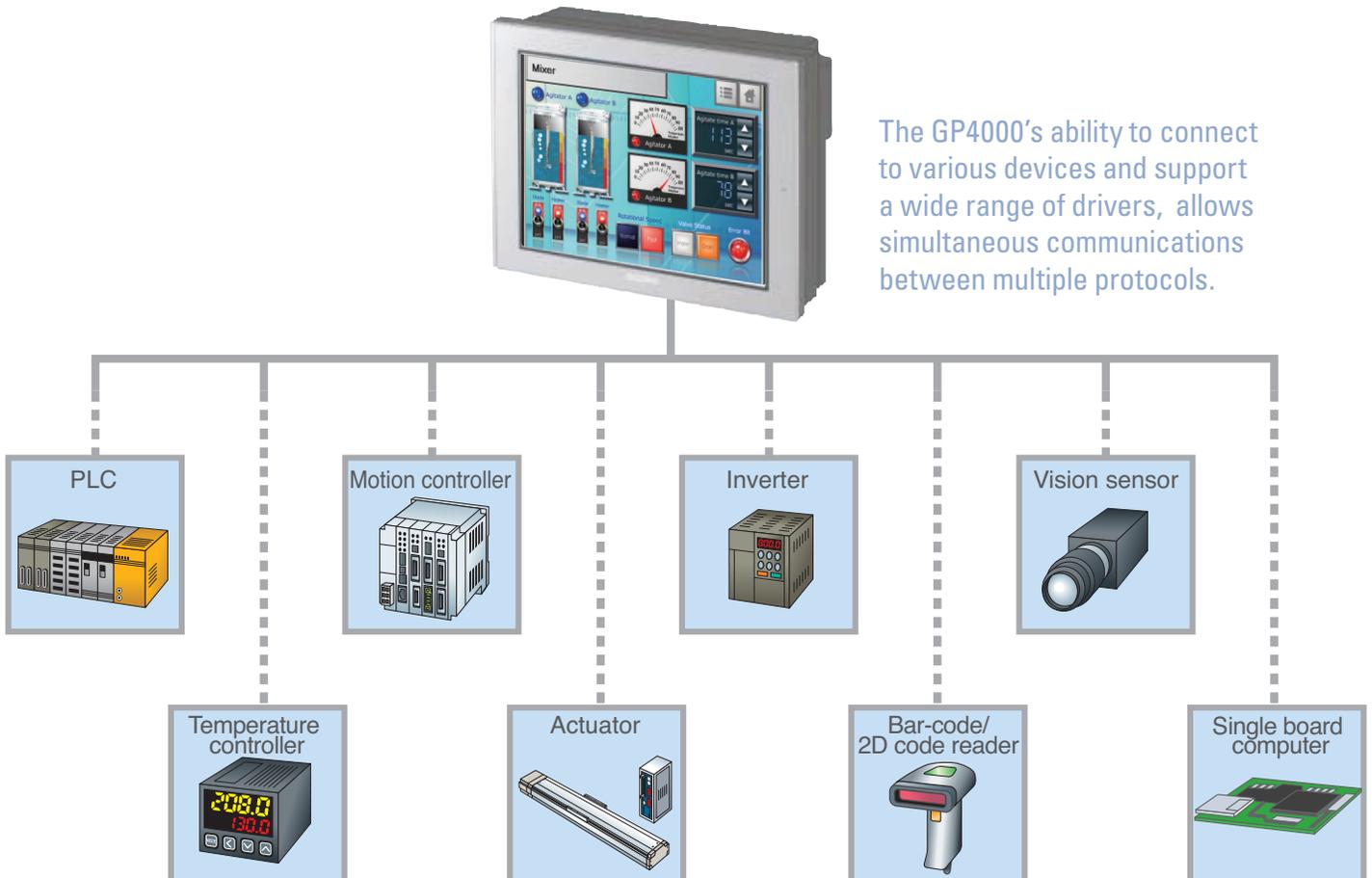
12.1" Standard – GP4000

Analog Touchscreen Operator Interface
with USB and Serial Communication Ports

Product Specifications

Part Number to Order	PFXGP4601TAA PFXGP4601TAAC*	PFXGP4601TAD PFXGP4601TADC*	PFXGP4603TAD
SD Card	x1	x1	x1
Serial Ports (COM1)	RS-232C	RS-232C	RS-232C
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485	RS-485 (isolation)
Ethernet	x1	x1	x1
USB (1)	Type-A (2.0)	Type-A (2.0)	Type-A (2.0)
USB (2)	Mini-B (2.0)	Mini-B (2.0)	Mini-B (2.0)
Touch Screen	Resistive Film (analog)	Resistive Film (analog)	Resistive Film (analog)
Brightness / Contrast	16 levels of adjustment	16 levels of adjustment	16 levels of adjustment
Programming Memory	32mb Flash EPROM	32mb Flash EPROM	32mb Flash EPROM
Backup Memory	320kb SRAM w/ battery backup	320kb SRAM w/ battery backup	320kb SRAM w/ battery backup
Input Voltage	100-240 VAC	24 VDC	24 VDC
Ambient Operating Temp	0-55° C [32 to 131° F]	0-55° C [32 to 131° F]	0-55° C [32 to 131° F]
Power Consumption	100 Vac: <44VA 240 Vac: <58VA	17W or less	17W or less

* C suffix denotes product is conformal coated

Part Number to Order	PFXGP4601TMD	PFXGP4601TMA
SD Card	x1	x1
Serial Ports (COM1)	RS-232C	RS-232C
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485
Ethernet	x1	x1
USB (1)	Type-A (2.0)	Type-A (2.0)
USB (2)	Mini-B (2.0)	Mini-B (2.0)
Touch Screen	Resistive Film (matrix)	Resistive Film (matrix)
Brightness / Contrast	16 levels of adjustment	16 levels of adjustment
Programming Memory	32mb Flash EPROM	32mb Flash EPROM
Backup Memory	320kb SRAM with battery backup	320kb SRAM with battery backup
Ambient Operating Temp	0-55° C [32 to 131° F]	0-55° C [32 to 131° F]
Input Voltage	24 VDC	100-240 VAC
Power Consumption	17W or less	100 Vac: <44VA 240 Vac: <58VA

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GP4000 Rear Mount

Description

The GP4000 Series Rear-Mount model is an HMI that can be mounted from the rear of an equipment control panel. Conventional programmable displays are typically designed to be mounted from the front, and have a bezel that projects past the front of the equipment control panel.

By offering a rear-mount model that can be mounted from the rear of an equipment control panel to meet the increasing need for design-conscious equipment in the industrial world, Pro-face is now able to provide a mounting method that matches industry needs in terms of equipment appearance and overall control panel design.

Using a rear-mount model also makes it possible to keep the control panel and display area flat. This has the benefit of preventing the accumulation of dust and mold, and even allows the display to be used in medical equipment and other devices used in environments where hygiene is important.

Features

• Equipment control panel and display area can be kept flat

• Available in four sizes: 12.1", 10.4", 7.5", and 5.7"

• Compliant with a variety of international standards

• Supports GP-Pro EX, screen editing and logic program software for the existing GP4000 series

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5.7" Rear Mount – GP4000

Analog Touchscreen Operator Interface
with Multiple Rear Mounting Options

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVCA)
Display Type and Size	TFT Color LCD (5.7")
Display Colors	65,536 Colors (no blink) / 16,384 Colors (blink)
Display Area	W 115.2 x H 86.4 mm (W 4.54 x H 3.4 in)
Touch Screen	Resistive Film (analog)
Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP20
Certifications	CE, CSA, UL Listed C1D2, RoHS, ABS, DNV, ATEX

Product Specifications

Part Number to Order	PFXGP4301TADR	PFXGP4301TADRF0C*
SD Card	x1	x1
Serial Ports (COM1)	RS-232C	RS-232C
Serial Ports (COM2)	RS-422/485	RS-422/485
Ethernet	x1	x1
USB (1)	Type-A (2.0)	Type-A (2.0)
USB (2)	Mini-B (2.0)	Mini-B (2.0)
Brightness / Contrast	16 levels of adjustment	16 levels of adjustment
Programming Memory	16mb Flash EPROM	16mb Flash EPROM
Backup Memory	320kb SRAM w/ battery backup	320kb SRAM w/ battery backup
Ambient Operating Temp	0 to 55° C [32 to 131° F]	0 to 55° C [32 to 131° F]
Input Voltage	24 VDC	24 VDC
Power Consumption	10.5 W or less	10.5 W or less

* Product is conformal coated

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7.5" Rear Mount – GP4000

Analog Touchscreen Operator Interface
with Multiple Rear Mounting Options

General Specifications

Graphic Display Resolution	640 x 480 pixels (VGA)
Display Type and Size	TFT Color LC (7.5")
Display Colors	65,536 Colors (no blink) / 16,384 Colors (blink)
Display Area	W 153.7 x H 115.8 mm [W 6.05 x H 4.56 in]
Touch Screen	Resistive Film (analog)
Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP20
Certifications	CE, CSA, UL Listed C1D2, RoHS, ABS, DNV, ATEX

Product Specifications

Part Number to Order	PFXGP4401TADR	PFXGP4401TADRF0C*
SD Card	x1	x1
Serial Ports (COM1)	RS-232C	RS-232C
Serial Ports (COM2)	RS-422/485	RS-422/485
Ethernet	x1	x1
USB (1)	Type-A (2.0)	Type-A (2.0)
USB (2)	Mini-B (2.0)	Mini-B (2.0)
Brightness / Contrast	16 levels of adjustment	16 levels of adjustment
Programming Memory	32mb Flash EPROM	32mb Flash EPROM
Backup Memory	320kb SRAM w/ battery backup	320kb SRAM w/ battery backup
Ambient Operating Temp	0 to 55° C [32 to 131° F]	0 to 55° C [32 to 131° F]
Input Voltage	24 VDC	24 VDC
Power Consumption	12 W or less	12 W or less

* Product is conformal coated

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10.4" Rear Mount – GP4000

Analog Touchscreen Operator Interface with Multiple Rear Mounting Options

General Specifications

Graphic Display Resolution	640 x 480 pixels (VCA)
Display Type and Size	TFT Color LC (10.4")
Display Colors	65,536 Colors (no blink) / 16,384 Colors (blink)
Display Area	W 211.2 x H 158.4 mm [W 8.31 x H 6.24 in]
Touch Screen	Resistive Film (analog)
Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP20
Certifications	CE, CSA, UL Listed C1D2, RoHS, ABS, DNV, ATEX

Product Specifications

Part Number to Order	PFXGP4501TADR	PFXGP4501TADRF0C*
SD Card	x1	x1
Serial Ports (COM1)	RS-232C	RS-232C
Serial Ports (COM2)	RS-422/485	RS-422/485
Ethernet	x1	x1
USB (1)	Type-A (2.0)	Type-A (2.0)
USB (2)	Mini-B (2.0)	Mini-B (2.0)
Brightness / Contrast	16 levels of adjustment	16 levels of adjustment
Programming Memory	32mb Flash EPROM	32mb Flash EPROM
Backup Memory	320kb SRAM w/ battery backup	320kb SRAM w/ battery backup
Ambient Operating Temp	0 to 55° C [32 to 131° F]	0 to 55° C [32 to 131° F]
Input Voltage	24 VDC	24 VDC
Power Consumption	17 W or less	17 W or less

* Product is conformal coated

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12.1" Rear Mount – GP4000

Analog Touchscreen Operator Interface
with Multiple Rear Mounting Options

General Specifications

Graphic Display Resolution	800 x 600 pixels (SVCA)
Display Type and Size	TFT Color LC (12.1")
Display Colors	65,536 Colors (no blink) / 16,384 Colors (blink)
Display Area	W 246.0 x H 184.5 mm [W 9.69 x H 7.26 in]
Touch Screen	Resistive Film (analog)
Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP20
Certifications	CE, CSA, UL Listed C1D2, RoHS, ABS, DNV, ATEX

Product Specifications

Part Number to Order	PFXGP4601TADR	PFXGP4601TADR
SD Card	x1	x1
Serial Ports (COM1)	RS-232C	RS-232C
Serial Ports (COM2)	RS-422/485	RS-422/485
Ethernet	x1	x1
USB (1)	Type-A (2.0)	Type-A (2.0)
USB (2)	Mini-B (2.0)	Mini-B (2.0)
Brightness / Contrast	16 levels of adjustment	16 levels of adjustment
Programming Memory	32mb Flash EPROM	32mb Flash EPROM
Backup Memory	320kb SRAM w/ battery backup	320kb SRAM w/ battery backup
Ambient Operating Temp	0 to 55° C [32 to 131° F]	0 to 55° C [32 to 131° F]
Input Voltage	24 VDC	24 VDC
Power Consumption	17 W or less	17 W or less

* Product is conformal coated

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GP4000 Modular

Description

This dedicated operator interface touch screen is ideal for OEMs and high graphical detail applications. It is part of a latest line of Pro-face brand operator interfaces. The bright, crisp, and clear QVGA display of this model is complemented with a large viewing area, and no grid analog for improved visibility and precise part placement.

A host of features include Ethernet, USB, and RS232, 422, 485 serial ports. The extensive network connectivity allows support of up to two simultaneous protocols making this a highly versatile operator interface.

Features

- 65k Color, Clear, Bright, High-Resolution TFT Display

- Energy Efficient LED Display

- No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement

- Supports different types of Protocol Drivers (communicates to two selected drivers)

- Separate front & rear module for quick installation in 22mm hole

- 10/100 Base-T Ethernet, and USB
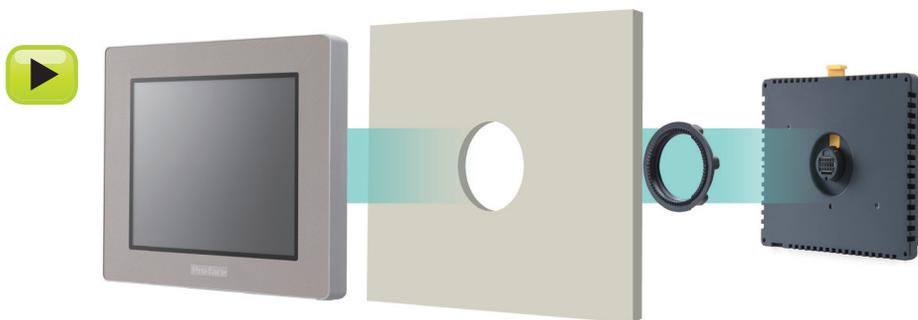
Modular Type For Easy Mounting

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3.5″ Modular – GP4000

Touchscreen Operator Interface with Separate
Front and Rear Module and 22mm Mounting

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVGA)
Display Type and Size	TFT Color LCD (3.5″)
Display Colors	65,536 Colors
Display Area	W 70.56 x H 52.92 mm [W 2.78 x H 2.08 in]
Touch Screen	Resistive Film (analog)
Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	NEMA #250 Type 4x, Display IP65f, Rear IP20
Certifications	CE, CSA, UL Listed C1D2, RoHS, GOST, KC, DNV

Product Specifications

Part Number to Order	PFXGM4201TAD	PFXGM4B01D*
SD Card	No	No
Serial Ports (COM1)	RS-232C / 422 / 485	RS-232C / 422 / 485
Serial Ports (COM2)	No	No
Ethernet	x1	x1
USB (1)	Type-A (2.0)	Type-A (2.0)
USB (2)	Mini-B (2.0)	Mini-B (2.0)
Brightness / Contrast	16 levels of adjustment	n/a
Programming Memory	8mb Flash EPROM	8mb Flash EPROM
Backup Memory	128kb nvSRAM	128kb nvSRAM
Ambient Operating Temp	0 to 50 °C (32 to 122 °F)	0 to 50 °C (32 to 122 °F)
Input Voltage	24 VDC	24 VDC
Power Consumption	6.5 W or less	1.6 W or less

* Rear Module only. Rear Module Installation Adapter "PFXZXMADSA1" is required for installation.

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5.7" Modular – GP4000

Touchscreen Operator Interface with Separate
Front and Rear Module and 22mm Mounting

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVGA)
Display Type and Size	TFT Color LCD (5.7")
Display Colors	65,536 Colors
Display Area	W 115.2 x H 86.4 mm [W 4.53 x H 3.4 in]
Touch Screen	Resistive Film (analog)
Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	NEMA #250 Type 4x, Display IP65f, Rear IP20
Certifications	CE, CSA, UL Listed C1D2, RoHS, GOST, KC, DNV

Product Specifications

Part Number to Order	PFXGM4301TAD	PFXGM4B01D*
SD Card	No	No
Serial Ports (COM1)	RS-232C / 422 / 485	RS-232C / 422 / 485
Serial Ports (COM2)	No	No
Ethernet	Yes	x1
USB (1)	Type-A (2.0)	Type-A (2.0)
USB (2)	Mini-B (2.0)	Mini-B (2.0)
Brightness / Contrast	16 levels of adjustment	n/a
Programming Memory	8mb Flash EPROM	8mb Flash EPROM
Backup Memory	128kb nvSRAM	128kb nvSRAM
Ambient Operating Temp	0 to 50 °C (32 to 122 °F)	0 to 50 °C (32 to 122 °F)
Input Voltage	24 VDC	24 VDC
Power Consumption	6.8 W or less	1.6 W or less

* Rear Module only. Rear Module Installation Adapter "PFXZXMADSA1" is required for installation.

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GP4100 Compact

Description

The Pro-face AGP4100 Series compact operator interface offers a crisp, clear and bright, 200 x 80 pixel monochrome LCD Display, with Analog Touch Panel for improved visibility and precise part placement. It comes equipped with energy efficient, maintenance free Green/Orange/Red or White/Pink/Red LED backlights.

Features

• Crisp, clear and bright, 200 x 80 resolution Monochrome LCD Display

•No Grid Analog Touch Panel for improved visibility and precise part placement

• Touch Panel operation within a text panel replacement form factor

• Energy efficient, maintenance free LED backlight

77.5mm
[3.05in.]

116.5mm
[4.59in.]
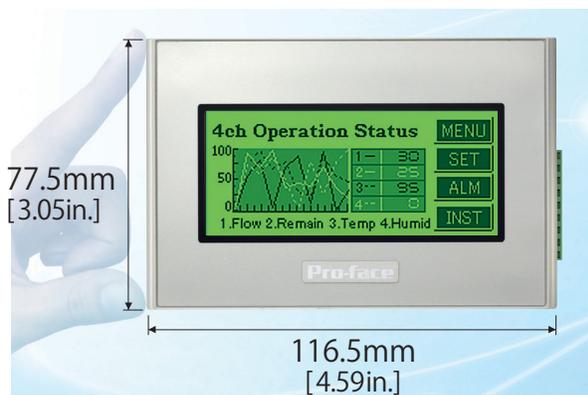
Select between two patterns of 3-color switchable backlights

Green	Orange	Red
White	Pink	Red

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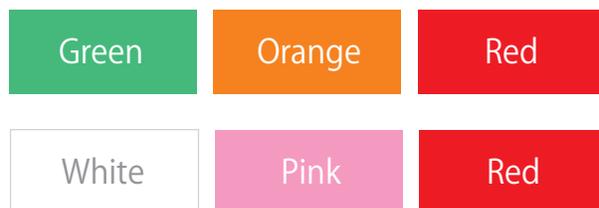
3.4" Compact – GP4100

Monochrome Touchscreen Operator
Interface with Alarm Color.

General Specifications

Graphic Display Resolution	200 x 80 pixels
Display Area	W 79.985 x H 31.985 mm
Display Type and Size	STN Monochrome LCD (3.4")
Touch Screen	Resistive Film (analog)
Backlight	LED (G1-Green/Red / W1-White/Red)
Brightness Adjustment	16 levels of adjustment
Contrast Adjustment	8 levels of adjustment
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, UL Listed, RoHS, CSA
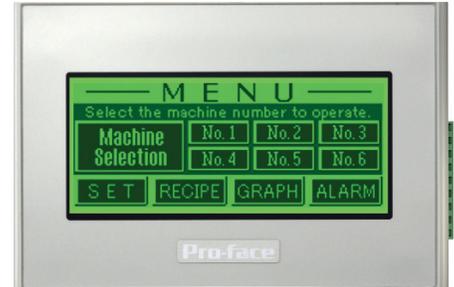
Product Specifications

Part Number to Order	AGP4104G1D AGP4104W1D	AGP4105G1D AGP4105W1D	AGP4106G1D AGP4106W1D	AGP4107G1D AGP4107W1D
Display Colors	G1 Models - Green/Orange/Red (16 shades) / W1 Models - White/Pink/Red (16 shades)			
Serial Port (COM1)	n/a	RS232C	RS422/485	RS-485 (isolated)
Ethernet	x1	n/a	n/a	n/a
USB Ports	USB 2.0 Type A	USB 2.0 Type A	USB 2.0 Type A	USB 2.0 Type A
USB Ports	USB 2.0 Type mini-B	USB 2.0 Type mini-B	USB 2.0 Type mini-B	USB 2.0 Type mini-B
Application Memory	2.2MB Flash EPROM	2.2MB Flash EPROM	2.2MB Flash EPROM	2.2MB Flash EPROM
Backup Memory	128kb	128kb	128kb	128kb
Input Voltage	24 VDC	24 VDC	24 VDC	24 VDC
Power Consumption	2.7W or less	2.7W or less	2.7W or less	2.7W or less

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AGP3000 Standard

Description

The Pro-face AGP3000 operator interface offers multiple models for flexibility, control, and connectivity. The standard product line offers extensive, built-in, time-saving features that help customers develop fast, consistent, standardized graphical interfaces. Add single platform data management and control with GP-Pro Ex or Pro-Server EX software to complete the winning combination.

Features

- Multi-Protocol: Simultaneous communication with 3rd party equipment.

- Multi-Lingual: Operator can see screen in language of choice.

- Bar-code Reader Support: Parts tracking made simple.

- Multi-Action Switches: Execute multiple actions with "ON" switch.

Monitor and collect all device data on one screen, or use multiple screens.

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5.7" Standard – AGP3000

Multi-Port Touchscreen Operator Interface
with Simultaneous Driver Support

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVGA)
Display Type and Size	TFT Color LCD (Ultra luminance - 5.7")
Display Colors	65,536 Colors (no blink) / 16,384 Colors (blink)
Display Area	W115.2 x H86.4 mm [W4.54 x H3.40 in]
Touch Screen	Resistive Film (analog)
Backlight	CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP65f, NEMA #250 Type 1
Certifications	CE, CSA, UL Listed C1D2, RoHS, ABS, DNV, ATEX
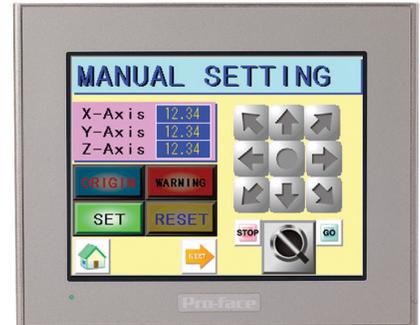
Product Specifications

Part Number to Order	**AGP3300-U1-D24**
CF Card	1 slot / Type II
Serial Ports (COM1)	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485
Ethernet	x1
USB (1)	Type-A (1.1)
Brightness / Contrast	8 levels of adjustment
Programming Memory	6mb Flash EPROM
Backup Memory	320kb SRAM
Ambient Operating Temp	0 to 50 °C (32 to 122 °F)
Input Voltage	24 VDC
Power Consumption	26 W or less

Pro-face
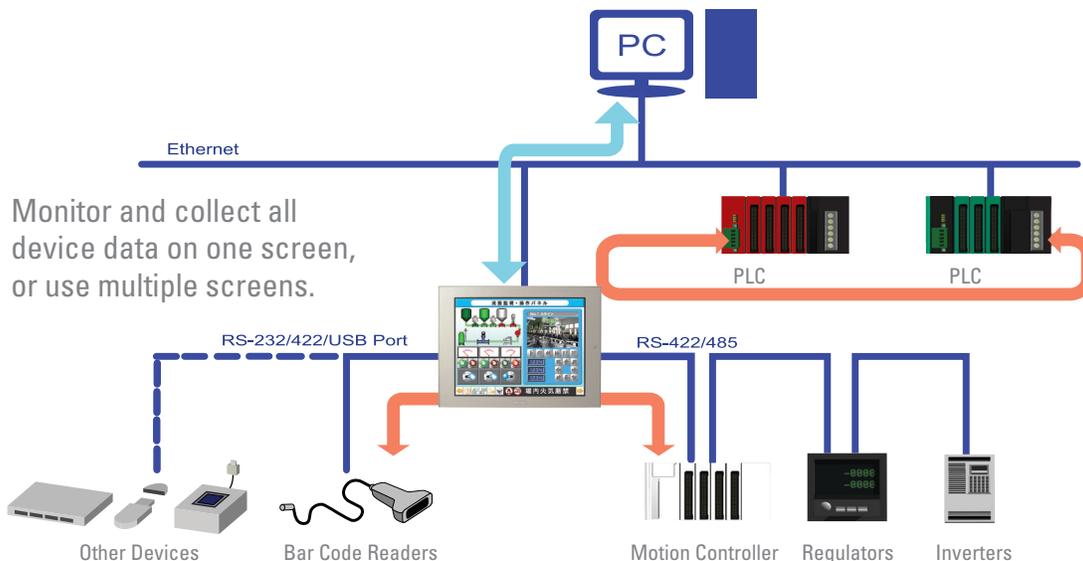for the best interface

AGP3000 Multi-Media

Description

The Pro-face AGP3000 operator interface offers multiple models for flexibility, control, and connectivity. The Multi-Media product line offers the same extensive, built-in, time-saving features to help customers develop fast, consistent, standardized graphical interfaces as our Standard product line, plus video and sound inputs. Add single platform data management and control with GP-Pro Ex or Pro-Server EX software to complete the winning combination.

Features

• No Grid Analog Touch Panel for Improved Visibility and Precise Part Placement

• Supports Up to Four Protocol Drivers Simultaneously

• 10 Times Faster Application Transfer than Conventional HMIs

• 100 Base-T Ethernet, USB, Serial and CompactFlash Communication Interfaces

• Direct Video & Audio Input Ports, plus Audio Output

Sound Input
• Microphone

Video Input
• Direct input 1 channel
• NTSC, PAL, SECAM

Pro-face
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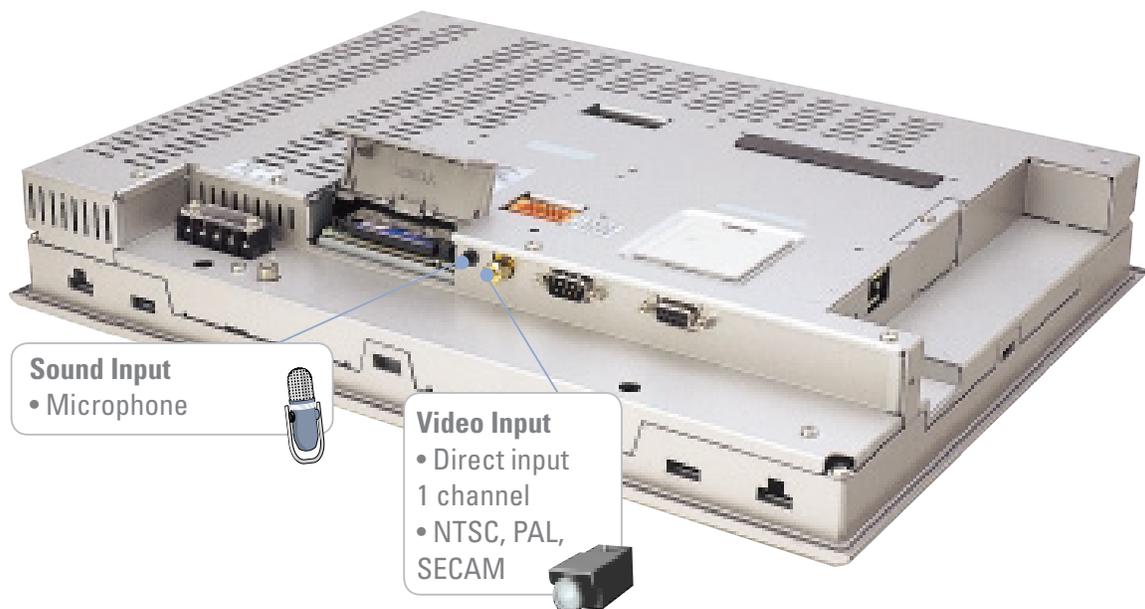
5.7" Multi-Media – AGP3000

Multi-Port Touchscreen Operator Interface with Simultaneous Driver Support, Video and Sound

General Specifications

Display Type and Size	TFT Color LCD (5.7in)
Display Colors	65,536 Colors (No blink) / 16,384 Colors (Blink)
Display Area	W115.2 x H86.4 mm [W4.54 x H3.40 in]
Touch Screen	Resistive Film (analog)
Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2, RoHS, ABS, DNV, ATEX

Product Specifications

Part Number to Order	**AGP3360-T1-D24**
Graphic Display Resolution	640 x 480 pixels (VGA)
CF Card	1 slot (Type II)
Serial Ports (COM1)	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485
Ethernet	x1
USB (1)	Type-A (1.1)
USB (2)	n/a
Brightness/Contrast Controls	8 levels of adjustment
Programming Memory	8MB Flash EPROM
Backup Memory	320kb SRAM
Sound Output	Speaker output 70mW (rated load: 8ohm; Frequency: 1kHz)
Video Input Interface	NTSC: 60 Hz PAL: 50 Hz Connector: RCA (75 ohm)
Sound Input Interface	MIC Input / Line Input Connector: Mini-Jack dia 3.5mm
Input Voltage	24 VDC
Power Consumption	26W or less

7.5" Multi-Media – AGP3000

Multi-Port Touchscreen Operator Interface with
Simultaneous Driver Support, Video and Sound

General Specifications

Display Type and Size	TFT Color LCD (7.5in)
Display Colors	65,536 Colors (No blink) / 16,384 (Blink)
Graphic Display Resolution	640 x 480 pixels (VGA)
Display Area	W153.7 x H115.8 mm [W6.05 x H4.56 in]
Touch Screen	Resistive Film (analog)
Backlight	CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2, RoHS, ATEX

Product Specifications

Part Number to Order	**AGP3450-T1-D24**
	AGP3450-T1-D24-M*
CF Card	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485
Ethernet	x1
USB (1)	Type-A (1.1)
Brightness/Contrast Controls	8 levels of adjustment
Programming Memory	10MB Flash EPROM
Backup Memory	320kb SRAM with battery backup
Sound Output	Speaker output 70mW (rated load: 8ohm; Frequency: 1kHz)
Video Input Interface	NTSC: 60 Hz PAL: 50 Hz Connector: RCA (75 ohm)
Sound Input Interface	MIC Input / Line Input Connector: Mini-Jack dia 3.5mm
Input Voltage	24 VDC
Power Consumption	28W or less

* M suffix denotes product is conformal coated
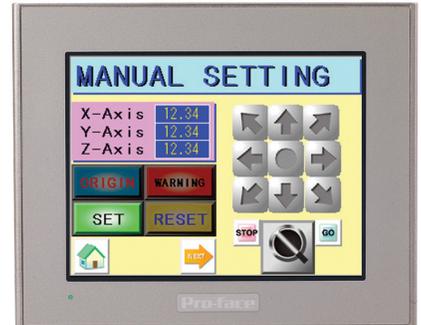
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10.4" Multi-Media – AGP3000

Multi-Port Touchscreen Operator Interface with Simultaneous Driver Support, Video and Sound

General Specifications

Display Type and Size	TFT Color LCD (10.4")
Display Colors	65,536 Colors (no blink) / 16,384 colors (Blink)
Display Area	W211.2 x H158.4 mm [W8.31 x H6.24 in]
Touch Screen	Resistive Film (analog)
Backlight	CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, cUL Recognized, UL Listed C1D2, RoHS, ATEX

3D CAD

Product Specifications

Part Number to Order	AGP3550-T1-AF AGP3550-T1-AF-M*	AGP3560-T1-AF AGP3560-T1-AF-M*
Graphic Display Resolution	640 x 480 pixels (VGA)	800 x 600 pixels (SVGA)
CF Card	1 Slot Type II	1 Slot Type II
Serial Ports (COM1)	RS-232C / 422 / 485	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485
Ethernet	x1	x1
USB (1)	Type-A (1.1)	Type-A (1.1)
USB (2)	n/a	Type-A (1.1)
Brightness/Contrast Controls	8 levels of adjustment	8 levels of adjustment
Programming Memory	10MB Flash EPROM	10MB Flash EPROM
Backup Memory	320kb SRAM	320kb SRAM
Sound Output	Speaker output 70mW (rated load: 8ohm; Frequency: 1kHz)	
Video Input Interface	NTSC: 60 Hz PAL: 50 Hz Connector: RCA (75 ohm)	
Sound Input Interface	MIC Input / Line Input Connector: Mini-Jack dia 3.5mm	
Input Voltage	100Vac to 240V ac	100Vac to 240V ac
Power Consumption	100Vac: <90VA / 240Vac: <108VA	100Vac: <90VA / 240Vac: <108VA

* M suffix denotes product is conformal coated

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12.1" Multi-Media – AGP3000
Multi-Port Touchscreen Operator Interface with Simultaneous Driver Support, Video and Sound

General Specifications

Graphic Display Resolution	800 x 600 pixels (SVGA)
Display Type and Size	TFT Color LCD (12.1")
Display Colors	65,536 Colors (No blink) / 16,384 colors (Blink)
Display Area	W248.0 x H186.5 mm [W9.76 x H7.34 in]
Touch Screen	Resistive Film (analog)
Backlight	CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, cUL Recognized, UL Listed (C1D2 T1 Only), ATEX

3D CAD
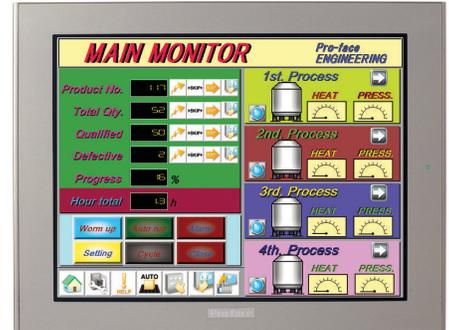
Product Specifications

Part Number to Order	AGP3650-T1-AF AGP3650-T1-AF-M*	AGP3650-U1-D24	AGP3650-T1-D24-M*
CF Card	1 slot, Type II	1 slot, Type II	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485	RS-232C / 422 / 485	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485	RS-422 / 485
Ethernet	x1	x1	x1
USB (1)	Type-A (1.1)	Type-A (1.1)	Type-A (1.1)
USB (2)	Type-A (1.1)	Type-A (1.1)	n/a
Sound Output	Speaker output 70mW (rated load: 8ohm; Frequency: 1kHz)		
Video Input Interface	NTSC: 60 Hz PAL: 50 Hz Connector: RCA (75 ohm)		
Sound Input Interface	MIC Input / Line Input Connector: Mini-Jack dia 3.5mm		
Brightness/Contrast Controls	8 levels of adjustment	8 levels of adjustment	8 levels of adjustment
Programming Memory	10MB Flash EPROM	10MB Flash EPROM	10MB Flash EPROM
Backup Memory	320kb SRAM	320kb SRAM	320kb SRAM
Input Voltage	100-240 VAC	24 VDC	24 VDC
Power Consumption	100Vac: <90VA / 240Vac: <108VA	2.08A or less	2.08A or less

* M suffix denotes product is conformal coated

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15.1" Multi-Media – AGP3000

Multi-Port Touchscreen Operator Interface with Simultaneous Driver Support, Video and Sound

General Specifications

Graphic Display Resolution	1024 X 768 pixels (XGA)
Display Type and Size	TFT Color LCD (15.1")
Display Colors	65,536 Colors (No blink); 16,384 (Blink)
Display Area	W306.2 x H230.1 mm (W12.06 x H9.06 in.)
Touch Screen	Resistive Film (analog)
Backlight	LED or CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122°F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, cUL, UL Listed C1D2, ATEX
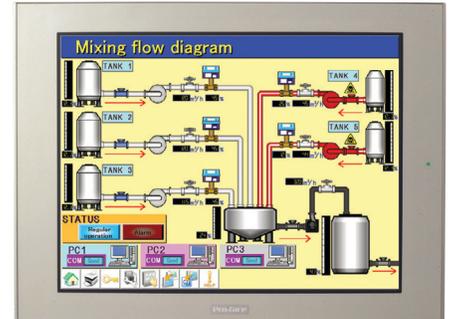
Product Specifications

Part Number to Order	AGP3750-T1-D24 AGP3750-T1-D24-M*	AGP3750-T1-AF AGP3750-T1-AF-M*
CF Card	1 slot, Type II	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485
Ethernet	x1	x1
USB (1)	Type-A (1.1)	Type-A (1.1)
USB (2)	Type-A (1.1)	Type-A (1.1)
Brightness/Contrast Controls	8 levels of adjustment	8 levels of adjustment
Programming Memory	16MB Flash EPROM	16MB Flash EPROM
Backup Memory	320kb SRAM	320kb SRAM
Sound Output	Speaker Output 70mW (rated load: 8ohm; Frequency: 1kHz)	
Video Input Interface	NTSC: 60Hz PAL: 50Hz Connector: RCA: 75 Ohm	
Sound Input Interface	MIC Input/Line Input Connector: Mini-Jack dia 3.5mm	
Input Voltage	24 VAC	100-240 VAC
Power Consumption	50W or less	100Vac: <110VA / 240Vac: <168VA

* C suffix denotes product is conformal coated

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AGP3000H Hand Held

Description

The Pro-face AGP3000H hand held operator interface offers multiple models to meet the needs of your application. The standard product line offers extensive, built-in, time-saving features that help customers develop fast, consistent, standardized graphical interfaces. Add single platform data management and control with GP-Pro Ex and Pro-Server EX software to complete the winning combination.

Features

• Tethered HMIs with full graphic touch screen

• Built-in Safety Features: Emergency Stop, 3-Position Enable Switch, and Key Switch

• Ideal for use with portable machine diagnostic or maintenance carts

• Connect directly to PLC or use easy disconnect access points

Key Enable Switch

CF / USB Interface Cover

Stylus / Touch Pen

Quick Disconnect Cable

Handstrap Attachment Slots

Pro-face
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5.7" Hand Held – AGP3000

Touchscreen Operator Interface with
11 Function Keys and Dual Protocol Support.

General Specifications

Touch Screen	Resistive Film (analog)
Backlight	White LED
Ambient Operating Temp	0 to 40° C (32 to 104° F)
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP65
Certifications	CE, UL, CSA

Product Specifications

Part Number to Order	AGP3300H-L1-D24-xxx-xxx*	AGP3300H-S1-D24-xxx-xxx*	AGP3310H-T1-D24-xxx-xxx*
Display Type and Size	Monochrome LCD (5.7")	STN Color LCD (5.7")	TFT Color LCD (5.7")
Display Colors	Monochrome (16 levels)	4,096 Colors	65,536 Colors (No blink) / 16,384 (No blink)
Display Area	W117.2 x H88.4 mm [W4.61 x H3.48 in]	W117.2 x H88.4 mm [W4.61 x H3.48 in]	W115.2 x H86.4 mm [W4.54 x H3.40 in]
Brightness/Contrast	16 levels brightness / 8 levels contrast	16 levels brightness / 8 levels contrast	16 levels brightness
Graphic Display Resolution	320 x 240 pixels (QVGA)	320 x 240 pixels (QVGA)	640 x 480 pixels (VGA)
Function Keys	11 Keys	11 Keys	11 Keys
CF Card	1 slot, Type II	1 slot, Type II	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485	RS-232C / 422 / 485	RS-232C / 422 / 485
Ethernet	x1	x1	x1
USB (1)	Type-A (1.1)	Type-A (1.1)	Type-A (1.1)
Programming Memory	6MB Flash EPROM	6MB Flash EPROM	8 MB Flash EPROM
Backup Memory	320kb SRAM	320kb SRAM	320kb SRAM
Input Voltage	24 VDC	24 VDC	24 VDC
Power Consumption	16.7 W (max)	16.7 W (max)	16.7 W (max)

No Suffix = no e-stop, no key
* = e-stop color (RED, YEL, GRY) if desired
K = key designation (KEY) if desired

LT4000 Modular

Description

The LT4000M provides both HMI, digital and analog control in a single unit.

A unique modular style allows the display and rear module to be mounted directly (to each other) or separately (connected by a 3 or 5m cable).

Features

• Compact all-in-one unit for easy installation in small spaces

• 22mm hole mounting (similar to a pushbutton) saves time

• Flexible installation choices for integrated or separated display and rear module

DIN Rail

Mount the unit as one (with 22mm hole mounting), or separate with the processor on a DIN rail with the available separation cable.

Easy wiring with removable spring I/O connector

Pro-face
for the best interface

3.5" Modular – LT4000

Touchscreen Operator Interface
plus Control, with 22mm mounting

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVGA)
Display Type and Size	TFT Color LCD (3.5")
Display Colors	65,536 Colors
Display Area	W 70.56 x H 52.92 mm [W 2.78 x H 2.08 in]
Touch Screen	Resistive Film (analog)
Backlight	White LED
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x, rear module IP20
Certifications	CE, CSA, UL Listed, RoHS, GOST, KC, DNV

Product Specifications

Part Number to Order		PFXLM4201TADAC*	PFXLM4201TADDC*
	Source	PFXLM4201TADAC*	PFXLM4201TADDC*
	Sink	PFXLM4201TADAK*	PFXLM4201TADDK*
Serial Ports (COM1)		RS-232C / 485 (RJ45)	RS-232C / 485 (RJ45)
Ethernet		x1	x1
USB (1)		Type-A (2.0)	Type-A (2.0)
USB (2)		Mini-B (2.0)	Mini-B (2.0)
Built in DIO (Input)		12 points	20 points
Built in DIO (Output)		6 points	10 points
Built in AIO (Input)		2 points (13bit) / 2 points (16 bit)	0 points
Built in AIO (Output)		2 points (12 bit)	0 points
CANopen Master		63 stations	63 stations
Brightness/Contrast Controls		16 levels of adjustment	16 levels of adjustment
Backup Memory		128KB nvSRAM	128KB nvSRAM
Programming Memory		16MB Flash EPROM	16MB Flash EPROM
Input Voltage		24 VDC	24 VDC
Power Consumption		<9W	<9W

* K suffix = Sink
* C suffix = Source

Pro-face
for the best interface

5.7″ Modular – LT4000

Touchscreen Operator Interface
plus Control, with 22mm mounting

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVGA)
Display Type and Size	TFT Color LCD (5.7″)
Display Colors	65,536 Colors
Display Area	W 115.2 x H 86.4 mm [W 4.53 x H 3.4 in]
Touch Screen	Resistive Film (analog)
Backlight	White LED
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x, rear module IP20
Certifications	CE, CSA, UL Listed, RoHS, GOST, KC, DNV

Product Specifications

Part Number to Order	Source	PFXLM4301TADAC*	PFXLM4301TADDC*
	Sink	PFXLM4301TADAK*	PFXLM4301TADDK*
Serial Ports (COM1)		RS-232C / 485 (RJ45)	RS-232C / 485 (RJ45)
Ethernet		x1	x1
USB (1)		Type-A (2.0)	Type-A (2.0)
USB (2)		Mini-B (2.0)	Mini-B (2.0)
Built in DIO (Input)		12 points	20 points
Built in DIO (Output)		6 points	10 points
Built in AIO (Input)		2 points (13bit) / 2 points (16 bit)	0 points
Built in AIO (Output)		2 points (12 bit)	0 points
CANopen Master		63 stations	63 stations
Brightness/Contrast Controls		16 levels of adjustment	16 levels of adjustment
Backup Memory		128KB nvSRAM	128KB nvSRAM
Programming Memory		16MB Flash EPROM	16MB Flash EPROM
Input Voltage		24 VDC	24 VDC
Power Consumption		<10W	<10W

* K suffix = Sink
* C suffix = Source

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Rear Module – LT4000

Touchscreen Operator Interface
plus Control, with 22mm mounting

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVGA)
Ambient Operating Temp	Horizontal installation: 0 to 50°C (32 to 122 °F)
	Vertical installation: 0 to 40°C (32 to 104°F)
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP20
Certifications	CE, CSA, UL Listed, RoHS, GOST, KC, DNV

Product Specifications

Part Number to Order	PFXLM4B01DDK* PFXLM4B01DDC*	PFXLM4B01DAK* PFXLM4B01DAC*
Programming Memory	16MB Flash EPROM	16MB Flash EPROM
Backup Memory	128KM nvSRAM	128KM nvSRAM
Serial Ports (COM1)	RS-232C / 485 (RJ45)	RS-232C / 485 (RJ45)
Ethernet	x1	x1
USB (1)	Type-A (2.0)	Type-A (2.0)
USB (2)	Mini-B (2.0)	Mini-B (2.0)
Built in DIO (Input)	20 points	12 points
Built in DIO (Output)	10 points	6 points
Built in AIO (Input)	n/a	2 channel (13 bit), 2 channel (16 bit)
Built in AIO (Output)	n/a	2 channel (12 bit)
CANopen Master	63 stations	63 stations
Input Voltage	24 VDC	24 VDC
Power Consumption	<9W	<9W

* K suffix = Sink
* C suffix = Source
* Rear Module only. Rear Module Installation Adapter "PFXZXMADSA1" is required for installation.

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LT3000 Control

Description

The LT3000 operator interface family combines built-in PLC functionality integrated with an HMI. It is an all-in-one hardware and software HMI Control Solution. Lowering overall system costs and panel space. Use up to 2 or 3 I/O modules, depending on the hardware model, connected directly to the back of the LT3000 as local I/O . The optional CANopen Master module can be used if remote I/O, Sensor, or Motion connections are required.

Features

• One Software Application for HMI & Control

• Space-saving HMI plus Control in One Unit

• Build Flexibility into your Machines

• Eliminate PLC/custom controls

• Cut remote maintenance costs

Touch-Screen Display
Ideal for:
- Tight spaces
- Alternative to text displays

USB
- Data storage
- Bar-code input

Pulse Output
- Stepper: pulse out to 65 kHz
- Speed: up to 7,800 RPM
- Four-axis single-direction/ Two-axis cw/ccw

Ethernet
(LT3300 only)
Ideal for:
- Data collection
- Remote reporting

Serial Port
(LT330x only)
Ideal for:
- Temperature controllers
- Drives and inverters
- Multidrop communications
- Sending/receiving ASCII

Expansion
- Expansion to 80 I/O points
Ideal for:
- Adaptive machine design

CANopen Master
(Requires optional communication module)
Ideal for:
- Interfacing to third-party CANopen devices
- Enhancing your machine functionality

Built-in I/O
- 24 VDC
- Inputs for sensors, switches
- Outputs for lamps, stack lights, valves

High-Speed Counter
- 100 Kpps input
Ideal for:
- Encoder output

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3.8" Control – LT3000

All-In-One Operator
Interface plus Control

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVGA)
Display Type and Size	3.8" Monochrome Amber/Red LCD
Effective Display Area	W78.8mm x H59.6mm [3.10in x 2.35in]
Backlight	Amber/Red LED
Touch Screen	Resistive Film (analog)
Display Colors	Monochrome (8 levels)
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2

Product Specifications

Part Number to Order	LT3201-A1-D24-K*	LT3201-A1-D24-C*
Programming Memory	6MB Flash EPROM	6MB Flash EPROM
Backup Memory	128MB SRAM	128MB SRAM
Brightness/Contrast	8 levels	8 levels
DIO Input	12 points	12 points
DIO Output	6 points	6 points
USB	1 Type A (1.1)	1 Type A (1.1)
I/O Expansion	2 EXM Modules	2 EXM Modules
CANopen Master	63 stations	63 stations
Input Voltage	24 VDC	24 VDC
Power Consumption	18W or less	18W or less

* K suffix = Sink
* C suffix = Source

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5.7" Control – LT3000

All-In-One Operator
Interface plus Control

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVGA)
Effective Display Area	W115.2mm x H86.4mm [4.54in x 3.4in]
Backlight	White LED
Touch Screen	Resistive Film (analog)
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Storage Temperature	-20 to 60° C [-4 to 140° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2

Product Specifications

Part Number to Order	LT3301-L1-D24-K*	LT3300-L1-D24-K*	LT3300-T1-D24-K*
	LT3301-L1-D24-C*	LT3300-L1-D24-C*	LT3300-T1-D24-C*
Display Type and Size	5.7" Monochrome LCD	5.7" Monochrome LCD	5.7" TFT Color LCD
Display Colors	Monochrome (16 levels)	Monochrome (16 levels)	65,536 Colors (No blink) 16,384 Colors (Blink)
Programming Memory	6MB Flash EPROM	6MB Flash EPROM	6MB Flash EPROM
Backup Memory	128MB SRAM	128MB SRAM	128MB SRAM
Brightness/Contrast	8 levels	8 levels	8 levels for brightness
DIO Input	16 points	16 points	16 points
DIO Output	16 points	16 points	16 points
USB	1 Type A (1.1)	1 Type A (1.1)	1 Type A (1.1)
Serial	RS232C / 422 / 485	RS232C / 422 / 485	RS232C / 422 / 485
Ethernet	n/a	x1	x1
I/O Expansion	3 EXM Modules	3 EXM Modules	3 EXM Modules
Input Voltage	24 VDC	24 VDC	24 VDC
Power Consumption	27W or less	27W or less	27W or less

* K suffix = Sink
* C suffix = Source

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AGP3000 Control with CANopen

Description

The AGP3000 with built in CANopen Master interface is part of the latest line of Pro-face brand operator interfaces. The bright, crisp, and clear QVGA display of this model provides a wide angle viewing area, with a high resolution no-grid analog resistive touch screen for a higher level of screen clarity and precise part placement.

For great performance, compact size, flexibility and network connectivity requirements, the AGP3000 with built in CANopen Master is a great choice!

Features

• CANopen Master interface connects up to 63 CANopen slave devices (I/O, Sensors, Motion) of you choice

• 65, 536 Colors TFT, Clear, Bright, High-Resolution TFT Display

• 64-bit RISC 133Mhz CPU for Ultra-Fast Screen Refresh and Data Sampling

• 10/100 Base-T Ethernet, USB Serial (MPI) and CompactFlash Communications

Serial / Ethernet

Pro-face AGP3000 CANopen Solution

Optional PLC

CANopen Slaves

Optional I/O

Sensors

Motion Control

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5.7" w/ CANopen – AGP3000

All-In-One Operator Interface plus Control
with built-in CANopen Master Controller

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVGA)
Display Area	W115.2 x H86.4 mm [W4.54 x H3.40 in]
Touch Screen	Resistive Film (analog)
Backlight	CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2, RoHS

3D CAD

Product Specifications

Part Number to Order	AGP3300-T1-D24-CA1M
Display Type and Size	5.7" TFT Color LCD
Display Colors	65,536 Colors (No blink); 16,384 (Blink)
CF Card	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485
Ethernet	x1
USB (1)	Type-A (1.1)
Brightness/Contrast Controls	8 levels
Programming Memory	6MB Flash EPROM
Backup Memory	320kb SRAM
CANopen Master	63 stations
Input Voltage	24 VDC
Power Consumption	26W or less

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7.5" w/ CANopen – AGP3000

All-In-One Operator Interface plus Control
with built-in CANopen Master Controller

General Specifications

Graphic Display Resolution	640 x 480 pixels (VGA)
Display Area	W153.7 x H115.8 mm [W6.05 x H4.56 in]
Touch Screen	Resistive Film
Backlight	CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2, RoHS

Product Specifications

Part Number to Order	**AGP3400-T1-D24-CA1M**
Display Type and Size	7.5" TFT Color LCD
Display Colors	65,536 Colors (No blink); 16,384 (Blink)
CF Card	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485
Ethernet	x1
USB (1)	Type-A (1.1)
Brightness Controls	8 levels
Programming Memory	16MB Flash EPROM
Backup Memory	320kb SRAM
CANopen Master	63 stations
AUX Output	Alarm Output, RUN Output, Buzzer Output
AUX Input	Remote Reset Input
Input Voltage	24 VDC
Power Consumption	28W or less

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10.4" w/ CANopen – AGP3000

All-In-One Operator Interface plus Control
with built-in CANopen Master Controller

General Specifications

Graphic Display Resolution	640 x 480 pixels (VGA)
Display Area	W211.2 x H158.4 mm [W8.31 x H6.24 in]
Touch Screen	Resistive Film (analog)
Backlight	LED or CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2, RoHS

3D CAD

Product Specifications

Part Number to Order	AGP3500-T1-D24-CA1M	AGP3500-T1-AF-CA1M
Display Type and Size	10.4" TFT Color LCD	10.4" TFT Color LCD
Display Colors	65,536 Colors (No blink); 16,384 (Blink)	65,536 Colors (No blink); 16,384 (Blink)
CF Card	1 slot, Type II	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485
Ethernet	x1	x1
USB (1) (2)	Type-A (1.1)	Type-A (1.1)
Brightness Controls	8 levels	8 levels
Programming Memory	16MB Flash EPROM	16MB Flash EPROM
Backup Memory	320kb SRAM	320kb SRAM
CANopen Master	63 stations	63 stations
AUX Output	Alarm Output, RUN Output, Buzzer Output	
AUX Input	Remote Reset Input	
Input Voltage	24 VDC	100VAC : <240VA
Power Consumption	50W or less	100VAC : <90VA / 240VAC : <108VA

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12.1" w/ CANopen – AGP3000

All-In-One Operator Interface plus Control
with built-in CANopen Master Controller

General Specifications

Graphic Display Resolution	800 x 600 pixels (SVGA)
Display Area	W248.0 x H186.5 mm [W9.76 x H7.34 in]
Touch Screen	Resistive Film
Backlight	LED or CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, cUL, UL Listed C1D2, RoHS

Product Specifications

Part Number to Order	AGP3600-T1-D24-CA1M	AGP3600-T1-AF-CA1M	AGP3600-U1-D24-CA1M
Display Type and Size	12.1" TFT Color LCD	12.1" TFT Color LCD	12.1" TFT Color LCD (ultra luminance)
Display Colors	65,536 Colors (No blink); 16,384 (Blink)	65,536 Colors (No blink); 16,384 (Blink)	65,536 Colors (No blink); 16,384 (Blink)
CF Card	1 slot, Type II	1 slot, Type II	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 48	RS-232C / 422 / 48	RS-232C / 422 / 48
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485	RS-422 / 485
Ethernet	x1	x1	x1
USB (1) (2)	Type-A (1.1)	Type-A (1.1)	Type-A (1.1)
Brightness Controls	8 levels	8 levels	8 levels
Programming Memory	16MB Flash EPROM	16MB Flash EPROM	16MB Flash EPROM
Backup Memory	320kb SRAM	320kb SRAM	320kb SRAM
CANopen Master	63 CANopen stations	63 CANopen stations	
AUX Output	Alarm Output, RUN Output, Buzzer Output	Alarm Output, RUN Output, Buzzer Output	Alarm Output, RUN Output, Buzzer Output
AUX Input	Remote Reset Input	Remote Reset Input	Remote Reset Input
Input Voltage	24 VDC	100VAC - 240VAC	24 VDC
Power Consumption	50W or less	100VAC - <90VA / 240VAC - <108VA	50W or less

Pro-face
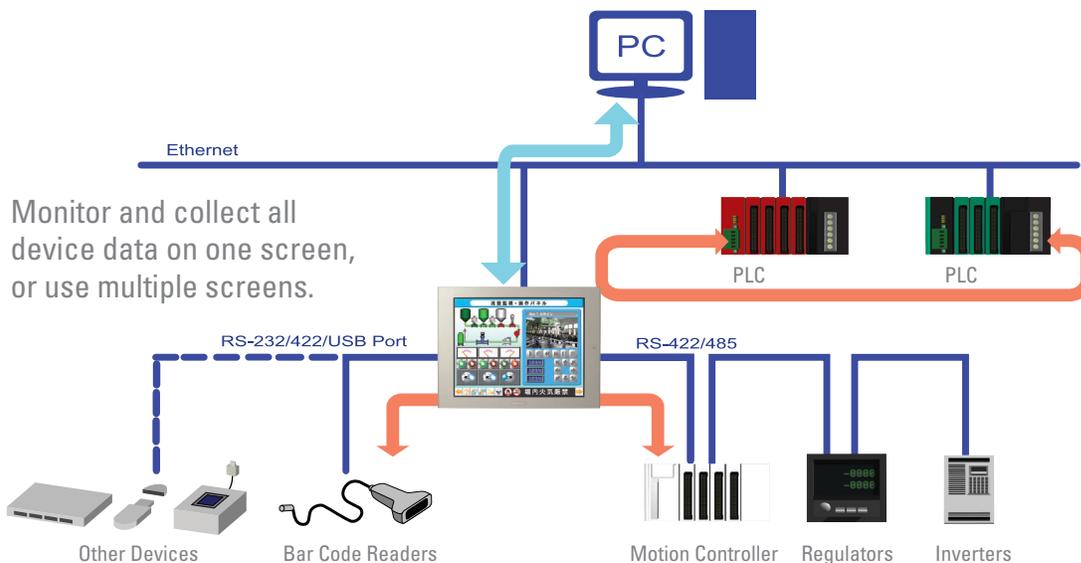for the best interface

AGP3000 Control with FlexNetwork

Description

The AGP3000 + FlexNetwork interface is part of the latest line of Pro-face brand operator interfaces. The bright, crisp, and clear VGA display of this model is complemented with a large viewing area, high resolution no-grid analog resistive touch screen providing a higher level of screen clarity and precise part placement.

For data intensive applications with very detailed graphic requirements, the AGP3000 + FlexNetwork is a great choice!

Features

• Expand and control distributed I/O modules via FlexNetwork Interface

• 65,536 Colors, Clear, Bright, High-Resolution TFT Display

• 64-bit RISC 133Mhz CPU for Ultra Fast Screen Refresh and Data Sampling

• 10/100 Base-T Ethernet, USB, Serial and CompactFlash Communication Interfaces

Monitor and collect all device data on one screen, or use multiple screens.

Ethernet

PC

PLC

PLC

RS-232/422/USB Port

RS-422/485

Other Devices

Bar Code Readers

Motion Controller

Regulators

Inverters

5.7" w/ FlexNetwork – AGP3000

All-In-One Operator Interface plus Control
with Dual Channel FlexNetwork Port

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVGA)
Display Area	W115.2 x H86.4 mm [W4.54 x H3.40 in]
Touch Screen	Resistive Film (analog)
Backlight	CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2

Product Specifications

Part Number to Order	**AGP3300-T1-D24-FN1M**
Display Type and Size	5.7" TFT Color LCD
Display Colors	65,536 Colors (No blink); 16,384 (Blink)
CF Card	1 slot, Type II
Serial Port (COM1)	RS-232C / 422 / 485
Serial Port (COM2)	RS-422 / 485
Ethernet	x1
USB (1)	Type-A (1.1)
Brightness/Contrast	8 levels
Programming Memory	6MB Flash EPROM
Backup Memory	320kb SRAM
Flex Network Interface	63 nodes
Input Voltage	24 VDC
Power Consumption	26W or less

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7.5" w/ FlexNetwork – AGP3000

All-In-One Operator Interface plus Control with Dual Channel FlexNetwork Port

General Specifications

Graphic Display Resolution	640 x 480 pixels (VGA)
Display Area	W153.7 x H115.8 mm [W6.05 x H4.56 in]
Touch Screen	Resistive Film (analog)
Backlight	CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2

3D CAD

Product Specifications

Part Number to Order	**AGP3400-T1-D24-FN1M**
Display Type and Size	7.5" TFT Color LCD
Display Colors	65,536 Colors (No blink); 16,384 (Blink)
CF Card	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485
Ethernet	x1
USB (1)	Type-A (1.1)
Brightness/Contrast	8 levels
Programming Memory	16MB Flash EPROM
Backup Memory	320kb SRAM
Flex Network Interface	63 nodes
AUX Output	Run Output, Buzzer Output, Alarm Output
AUX Input	Remote Reset
Sound Output	Speaker output 70mW (Rated load: 8ohm, Freq: 1kHz)
Input Voltage	24 VDC
Power Consumption	28W or less

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10.4" w/ FlexNetwork – AGP3000

All-In-One Operator Interface plus Control
with Dual Channel FlexNetwork Port

General Specifications

Graphic Display Resolution	640 x 480 pixels (VGA)
Display Area	W211.2 x H158.4 mm [W8.31 x H6.24 in]
Touch Screen	Resistive Film (analog)
Backlight	LED or CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, cUL Recognized, UL

Product Specifications

Part Number to Order	AGP3500-T1-D24-FN1M	AGP3500-T1-AF-FN1M
Display Type and Size	10.4" TFT Color LCD	10.4" TFT Color LCD
Display Colors	65,536 Colors (No blink); 16,384 (Blink)	65,536 Colors (No blink); 16,384 (Blink)
CF Card	1 slot, Type II	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485
Ethernet	x1	x1
USB (1)	Type-A (1.1)	Type-A (1.1)
USB (2)	Type-A (1.1)	Type-A (1.1)
Brightness/Contrast	8 levels	8 levels
Programming Memory	8MB Flash EPROM	8MB Flash EPROM
Backup Memory	320kb SRAM	320kb SRAM
Flex Network Interface	63 nodes	63 nodes
Sound Output	Speaker output 70mW (Rated load: 8ohm, Freq: 1kHz)	
Aux Input	Remote Reset	Remote Reset
Aux Output	Alarm Output, Run Output, Buzzer Output	Alarm Output, Run Output, Buzzer Output
Input Voltage	24VDC	100VAC to 240VAC
Power Consumption	50W or less	100VAC <90VA; 240VAC<108VA

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12.1" w/ FlexNetwork – AGP3000

All-In-One Operator Interface plus Control
with Dual Channel FlexNetwork Port

General Specifications

Graphic Display Resolution	800 x 600 pixels (SVGA)
Display Area	W248.0 x H186.5 mm [W9.76 x H7.346 in]
Touch Screen	Resistive Film (analog)
Backlight	LED or CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, cUL Recognized, UL

3D CAD

Product Specifications

Part Number to Order	AGP3600-T1-D24-FN1M	AGP3600-T1-AF-FN1M
Display Type and Size	12.1" TFT Color LCD	12.1" TFT Color LCD
Display Colors	65,536 Colors (No blink); 16,384 (Blink)	65,536 Colors (No blink); 16,384 (Blink)
CF Card	1 slot, Type II	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485
Ethernet	x1	x1
USB (1)	Type-A (1.1)	Type-A (1.1)
USB (2)	Type-A (1.1)	Type-A (1.1)
Brightness/Contrast	8 levels	8 levels
Programming Memory	16MB Flash EPROM	16MB Flash EPROM
Backup Memory	320kb SRAM	320kb SRAM
Flex Network Interface	63 nodes	63 nodes
Sound Output	Speaker output 70mW (Rated load: 8ohm, Freq: 1kHz)	
Aux Input	Remote reset	Remote reset
Aux Output	Alarm Output, Run Output, Buzzer Output	Alarm Output, Run Output, Buzzer Output
Input Voltage	24VDC	100VAC to 240VAC
Power Consumption	50W or less	100VAC <90VA; 240VAC<108VA

Pro-face
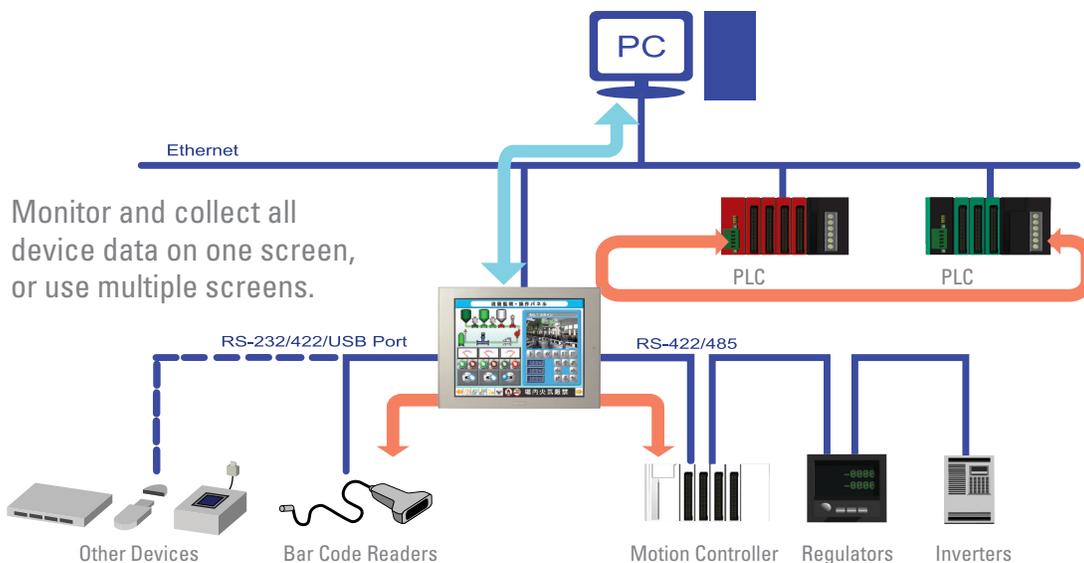for the best interface

AGP3000 Control with Discrete I/O

Description

The AGP3000 + Discrete I/O interface is part of the latest line of Pro-face brand operator interfaces. The bright, crisp, and clear QVGA display of this model provides a wide angle viewing area, with a high resolution no-grid analog resistive touch screen for a higher level of screen clarity and precise part placement.

For great performance, compact size, flexibility and network connectivity requirements, the AGP3000 + Discrete I/O is a great choice!

Features

• All-in-One HMI and PLC + 6 discrete inputs and 2 discrete outputs

• Crisp, Clear, Bright 320x240 Resolution Monochrome Display

• Ultra Fast Application Transfer, 10 Times Faster than Conventional HMIs

• 10/100 Base-T Ethernet, USB, Serial (MPI) and CompactFlash® Communications

Monitor and collect all device data on one screen, or use multiple screens.

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5.7" w/ Discrete I/O – AGP3000

All-In-One Operator Interface plus
Control with built-in Discrete I/O

General Specifications

Graphic Display Resolution	320 x 240 pixels (QVGA)
Display Area	W115.2 x H86.4 mm [W4.54 x H3.40 in]
Touch Screen	Resistive Film (analog)
Backlight	CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2

Product Specifications

Part Number to Order	AGP3300-T1-D24-D81K*
	AGP3300-T1-D24-D81C*
Display Type and Size	5.7" TFT Color LCD
Display Colors	65,536 Colors (No blink); 16,384 (Blink)
CF Card	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485
Ethernet	x1
USB (1)	Type-A (1.1)
Brightness/Contrast	8 levels
Programming Memory	6MB Flash EPROM
Backup Memory	320kb SRAM
Discrete Input	6 points
Discrete Output	2 points
Input Voltage	24VDC
Power Consumption	26W or less

* K suffix denotes product is Sink type
* C suffix denotes product is Source type

Pro·face
for the best interface

7.5" w/ Discrete I/O – AGP3000

All-In-One Operator Interface plus
Control with built-in Discrete I/O

General Specifications

Graphic Display Resolution	640 x 480 pixels (VGA)
Display Area	W153.7 x H115.8 mm [W6.05 x H4.56 in]
Touch Screen	Resistive Film (analog)
Backlight	CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, UL Listed C1D2

Product Specifications

Part Number to Order	**AGP3400-T1-D24-D81K*** **AGP3400-T1-D24-D81C***
Display Type & Size	7.5" TFT Color LCD
Display Colors	65,536 Colors (No blink); 16,384 (Blink)
CF Card	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485
Ethernet	x1
USB (1)	Type-A (1.1)
Brightness/Contrast	8 levels
Programming Memory	16MB Flash EPROM
Backup Memory	320kb SRAM
Sound Output	Speaker output 70mW (rated load: 8ohm, Frequency: 1kHz)
Aux Input	Remote Reset
Aux Output	Alarm Output, Run Output, Buzzer Output
Discrete I/O	6 points Input / 2 points Output
Input Voltage	24 VDC
Power Consumption	28W or less

* K suffix denotes product is Sink type
* C suffix denotes product is Source type

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for the best interface

10.4" w/ Discrete I/O – AGP3000

All-In-One Operator Interface plus
Control with built-in Discrete I/O

General Specifications

Graphic Display Resolution	640 x 480 pixels (VGA)
Display Area	W211.2 x H158.4 mm [W8.31 x H6.24 in]
Touch Screen	Resistive Film (analog)
Backlight	LED or CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, cUL, UL Listed C1D2

3D CAD

Tank monitor

Product Specifications

Part Number to Order	AGP3500-T1-D24-D81K*	AGP3500-T1-AF-D81K*
	AGP3500-T1-D24-D81C*	AGP3500-T1-AF-D81C*
Display Type and Size	10.4" TFT Color LCD	10.4" TFT Color LCD
Display Colors	65,536 Colors (No blink); 16,384 (Blink)	65,536 Colors (No blink); 16,384 (Blink)
CF Card	1 slot, Type II	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485
Ethernet	x1	x1
USB (1) (2)	Type-A (1.1)	Type-A (1.1)
Brightness/Contrast	8 levels	8 levels
Programming Memory	16MB Flash EPROM	16MB Flash EPROM
Backup Memory	320kb SRAM	320kb SRAM
Sound Output	Speaker output 70mW (rated load: 8ohm, Frequency: 1kHz)	
AUX Input	Remote Reset	Remote Reset
AUX Output	Alarm Output, Run Output, Buzzer Output	Alarm Output, Run Output, Buzzer Output
Discrete I/O	6 points Input / 2 points Output	6 points Input / 2 points Output
Input Voltage	24 VDC	100VAC to 240VAC
Power Consumption	50W or less	100VAC <90VA; 240VAC <108VA

* K suffix denotes product is Sink type
* C suffix denotes product is Source type

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12.1" w/ Discrete I/O – AGP3000

All-In-One Operator Interface plus
Control with built-in Discrete I/O

General Specifications

Graphic Display Resolution	800 x 600 pixels (SVGA)
Display Area	W248 x H186.5 mm [W9.76 x H7.34 in]
Touch Screen	Resistive Film (analog)
Backlight	LED or CCFL
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 50° C [32 to 122° F]
Environmental Ratings	IP65f, NEMA #250 Type 4x/13
Certifications	CE, CSA, cUL, UL Listed C1D2

3D CAD

Product Specifications

Part Number to Order	**AGP3600-T1-D24-D81K***	**AGP3600-T1-AF-D81K***
	AGP3600-T1-D24-D81C*	**AGP3600-T1-AF-D81C***
Display Type and Size	12.1" TFT Color LCD	12.1" TFT Color LCD
Display Colors	65,536 Colors (No blink); 16,384 (Blink)	65,536 Colors (No blink); 16,384 (Blink)
CF Card	1 slot, Type II	1 slot, Type II
Serial Ports (COM1)	RS-232C / 422 / 485	RS-232C / 422 / 485
Serial Ports (COM2)	RS-422 / 485	RS-422 / 485
Ethernet	x1	x1
USB (1) (2)	Type-A (1.1)	Type-A (1.1)
Brightness/Contrast	8 levels	8 levels
Programming Memory	16MB Flash EPROM	16MB Flash EPROM
Backup Memory	320kb SRAM	320kb SRAM
Sound Output	Speaker output 70mW (rated load: 8ohm, Frequency: 1kHz)	
AUX Input	Remote Reset	Remote Reset
AUX Output	Alarm Output, Run Output, Buzzer Output	Alarm Output, Run Output, Buzzer Output
Discrete I/O	6 points Input / 2 points Output	6 points Input / 2 points Output
Input Voltage	24 VDC	100VAC to 240VAC
Power Consumption	50W or less	100VAC <90VA; 240VAC <108VA

* K suffix denotes product is Sink type
* C suffix denotes product is Source type

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EZ Series USB Solutions

Description

The EZ Series was developed in response to the need to easily improve the functionality of operating stations at production sites.

EZ Fingerprint Recognition Unit can improve security by providing fingerprint authentication, improving security efficiency.

EZ Illuminated Switch can accommodate the need for hardware switches and light indicators. Displayable indicator colors and patterns can be specified via the software.

EZ Numpad is an alphanumeric keypad that features the same 22-millimeter holes used to install hardware switches and lamps used on production work sites.

EZ Tower Light makes your status system easier to understand by leveraging the multi-color LEDs which allows the flexibility to control 4 colors and 2 flash rates per unit.

Features

• Easy to connect - USB Connection

• Easy to install - 22mm Hole Mounting

• Easy to setup - No need for special programing, easy setup by GP-Pro EX

• Multi-color LED's allow colors and functions to be changed per pre-set status

• Switch between input and function keys

Think Outside the HMI

Pro·face
for the best interface

Fingerprint Recognition Unit

Fingerprint recognition unit easily
connected with HMI via USB

General Specifications

Rated Input Voltage	24 Vdc
Input Voltage Limits	20 to 30 Vdc
Power Consumption	1.6W max
Surrounding Air Temperature	0 to 50° C (32 to 122° F)
Storage Temperature	-25 to 70° C (-13 to 158° F)
Environmental Ratings	IP65 front face / IP20 back
Supported Software	GP-Pro EX Ver. 3.1 or later
Certifications	CE. CSA, UL, RoHS

Product Specifications

Part Number to Order	**PFXZCCCEUSS1**
External Dimensions	W 69.3 x H 54 x D 78.5mm (W 2.73 x H 2.13 x D 3.09in.
Weight	140g [0.31 lb]
Memory Capacity	100 users (2 fingerprints for one user)
Security Level Setting	15 levels
Connection	Connect via USB cable
USB Cable Length	USB cable: 1.0m (3.28 ft.); Power cable: 2.0m (6.56ft.)
Connectable HMI	GP4000, GP4000M, WinGP, LT4000M, SP5000

24VDC   to HMI

Illuminated Switch

A unit of 5 illuminated switches with multiple color LED easily connected with HMI via USB

General Specifications

Rated Input Voltage	5 Vdc (powered from USB bus)
Input Voltage Limits	4.75 to 5.25 Vdc
Power Consumption	2.0W max
Surrounding Air Temperature	0 to 55° C (32 to 131° F)
Storage Temperature	-20 to 60° C (-4 to 140° F)
Environmental Ratings	IP65 front face / IP20 back
Supported Software	GP-Pro EX Ver. 3.1 or later
Certifications	CE. CSA, UL, RoHS

Product Specifications

Part Number to Order	PFXZCCEUSG1
External Dimension	W 122 x H54 x D 28mm (W 4.80 x H 2.13 x D 1.10in)
Weight	110g (0.24lb) or less
Number of Switches	5 illuminated switches
Durability of Switches	1 million times or more for each switch
LED Colors	Red, Green, Yellow, Blue, White, Orange
Function Key Lables	Printable and replaceable insert labels
USB Cable Length	1m (removable)
Connection	USB I/F: Type B (socket), USB 2.0 Full Speed
Connectable HMI	GP4000, GP4000M, WinGP, LT4000M, SP5000

USB 2.0*

Type A

*When using the unit with GP4000M, it is necessary to use self power USB HUB.

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Numpad

Programable alphanumeric keypad
easily connected with HMI via USB

General Specifications

Rated Input Voltage	5 Vdc (powered from USB bus)
Input Voltage Limits	4.75 to 5.25 Vdc
Power Consumption	.75 W or less
Surrounding Air Temperature	0 to 55° C (32 to 131° F)
Storage Temperature	-20 to 60° C (-4 to 140° F)
Environmental Ratings	IP65 UL50E TYPE 4X (Indoor Use Only)
Supported Software	GP-Pro EX Ver. 3.6 or later
Certifications	CE. CSA, UL, C-tick, KC, Gost-R, RoHS

Product Specifications

Part Number to Order	PFXZCCCEUKB1
External Dimension	W 97.6 x H 80.0 x D 31.5 mm (W 3.84 x H 3.15 x D 1.24 in.)
Weight	150 g (0.33 lb) or less
Function Key Label	Printable and replaceable insert labels
USB Cable Length	1m (Removable) *Max 5m with extension cable
Connection	Type miniB (socket), USB 2.0 Full Speed
Connectable HMI	GP4000, GP4000M, WinGP, LT4000M, SP5000

Compare data during input operation to reduce mistakes.

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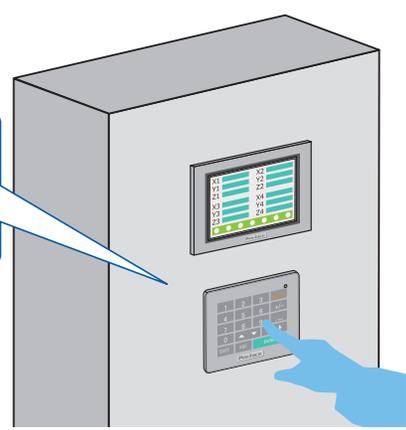
Tower Light

Tower light unit easily
connected with HMI via USB

General Specifications

Rated Input Voltage	5 Vdc (powered from USB bus)
Connection	Type miniB (socket), USB 2.0 Full Speed
Power Consumption	2.0W max
Storage Temperature	-35 to 70° C (-95 to 158° F)
Ambient Operating Temp	0 to 55° C (32 to 131° F)
Environmental Ratings	IP54
Supported Software	GP-Pro EX Ver. 3.1 or later
Certifications	UL 508, cUL, CSA22.2, CE

Product Specifications

Part Number to Order	**PFXZCETWHA1**	**PFXZCETWW1**
Supported Software	GP-Pro EX Ver. 3.0.1 or later	GP-Pro EX Ver. 3.0.1 or later
Connectable HMI	GP4000, GP4000M, WinGP, LT4000M, SP5000	GP4000, GP4000M, WinGP, LT4000M, SP5000
Installation	Tube mounting with fixing plate	Base mounting
Units	3	3
Color	Red / Green / Blue / Yellow	Red / Green / Blue / Yellow
Light Mode	Off / On / Blink (High) / Blink (Low)	Off / On / Blink (High) / Blink (Low)
Buzzer	4 sounds	4 sounds
Buzzer Volume	High / Middle / Low - 85dB	High / Middle / Low - 82dB
Buzzer Tone	High / Low	High / Low
Weight	0.3kg (0.66lb)	0.3kg (0.66lb)

Customizing settings on the HMI allows flexible adaptation to user requirements for well-informed operators.

Color of all three segments can be set to match customer requirements

Use to monitor state of entire line

Increase visibility by having all segments turn red in an emergency

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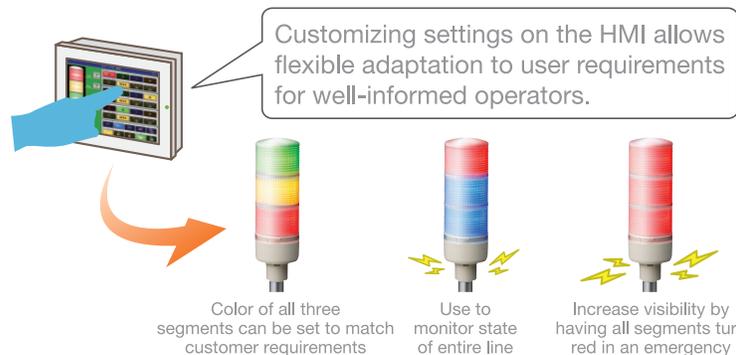
SP5000 Enhanced HMI

Description

Pro-face has created a new market with the new SP5000 Series interface terminal—or Smart Portal—a new category of HMI, to improve production efficiency by better leveraging the big data generated at production work sites and offices.

The new SP5000 Series interface terminal has been developed to respond to the need to obtain data and supply it where required in an appropriate format for efficiency improvements and the need safely network production work sites with offices.

Until now, networking existing production worksite facilities with an office has necessitated the introduction of large-scale systems and the upgrading of facilities. By introducing the Smart Portal to the production work site, information such as production results and machine data, and production management data required in the office can be made smart at low cost. With the release of the SP5000 Series, Pro-face hopes to create a new Smart Portal market, which it forecasts to reach the same scale as the current HMI market within the next five years.

Features

• 16-million-color TFT LCD multi-touch panel

• Modular design and screwless box module attachment for improved maintainability when repairing or replacing.

• Available in 12 configurations — 6 display module models and 2 box module models

• Supports applications that run on Windows

• Equipped with two Ethernet ports standard

• Equipped with two standard SIO ports and up to three USB ports

• By using together with Pro-face Remote HMI, it is possible to check and operate machinery from mobile devices such as smartphones and tablets

• Compliant with various international safety standards and IP65F/IP66F/IP67F for use in a broad range of situations

Pro-face
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Premium Display – SP5000

Smart Portal analog touch
panel display module

General Specifications

Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 60° C [32 to 140° F]
Environmental Ratings	w/ a factory-installed front USB cover: IP65, w/ a front USB cover as an option: IP66F, IP67F TYPE 4X/13
Certifications	CE, UL508, RoHS

Product Specifications

Part Number to Order	PFXSP5500TPD PFXSP5500TPDF0C*	PFXSP5600TPDC PFXSP5600TPDF0C*	PFXSP5660TPD PFXSP5660TPDF0C*	PFXSP5700TPD PFXSP5700TPDF0C*
Display Type and Size	10.4" TFT Color LCD	12.1" TFT Color LCD	12.1" TFT Color LCD	15" TFT Color LCD
Display Colors	16 million colors	16 million colors	16 million colors	16 million colors
Graphic Display Resolution	800 x 600 pixels (SVGA)	1,024 x 768 pixels (XGA)	1,024 x 768 pixels (XGA)	1,024 x 768 pixels (XGA)
Display Area	W211.2 x H58.4mm [W8.31 x H6.24in]	W245.76 x H184.32mm [W9.68 x H7.26in]	W245.76 x H184.32mm [W9.68 x H7.26in]	W304.1 x H228.1mm [W11.97 x H8.98]
Touch Panel Type	Resistive Film (analog, multi-touch)			
Brigntness/Contrast	0 to 100			
Programming Memory	64MB (CFast card)			
Backup Memory	NVRAM 320 KB			
Ethernet	n/a	n/a	Wirelesss	n/a
USB (1)	USB 2.0 (Type-A)			
USB (2)	USB 2.0 (mini-B)			
Input Voltage	12 to 24 Vdc			
Power Consumption	50W max	56W max	58W max	57W max

* Product is conformal coated

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Advanced Display – SP5000

Smart Portal analog touch
panel display module

General Specifications

Backlight	White LED
Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 60° C [32 to 140° F]
Environmental Ratings	IP66F, IP67F, TYPE 4X/13
Certifications	CE, UL508, RoHS

Product Specifications

Part Number to Order	PFXSP5400WAD PFXSP5400WADF0C*	PFXSP5500WAD PFXSP5500WADF0C*	PFXSP5600WAD PFXSP5600WADF0C*
Display Type and Size	7" TFT Color LCD	10.1" TFT Color LCD	12.1" TFT Color LCD
Display Colors	262,144 colors	262,144 colors	262,144 colors
Graphic Display Resolution	800 x 480 pixels (WVGA)	1,200 x 800 pixels (WXGA)	1,200 x 800 pixels (WXGA)
Display Area	W154.08 x H95.92mm [W6.06 x H3.78in]	W216.96 x H135.6mm [W8.54 x H5.34in]	W261.12 x H163.2mm [W10.28 x H6.43in]
Touch Panel Type	Resistive Film (analog, multi-touch		
Brigntness/Contrast	0 to 100		
Programming Memory	64MB (CFast card)		
Backup Memory	NVRAM 320 KB		
Input Voltage	12 to 24 Vdc		
Power Consumption	41W max	43W max	45W max

* Product is conformal coated

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Open Box – SP5000

Smart Portal analog touch
panel box module

General Specifications

Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 60° C [32 to 140° F]
Certifications	CE, UL508, RoHS

Product Specifications

Part Number to Order	**PFXSP5B40**
	PFXSP5B40F0C*
SD Card	1 slot
Cfast Card	1 slot
Serial Ports (COM1)	RS-232C / 422 / 485
Serial Ports (COM2)	RS-232C / 422 / 485
Ethernet	x2
USB (1)	USB 2.0 (Type-A)
USB (2)	USB 2.0 (Type-A)
USB (3)	USB 2.0 (Type-A)
USB (4)	USB 2.0 (mini-B)
Sound Output	Speaker output 300mW (rated load: 8ohm, Frequency: 1kHz)
Sound Input	MIC or LINE input (software switch), Connector: MINI-JACK dia 3.5mm
Video Output Interface	DVI-D 24 pin (socket)
AUX Input	n/a
AUX Output	Alarm Output / Buzzer Output

* F0C suffix denotes product is conformal coated

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Power Box – SP5000

Smart Portal analog touch
panel box module

General Specifications

Storage Temperature	-20 to 60° C [-4 to 140° F]
Ambient Operating Temp	0 to 60° C [32 to 140° F]
Certifications	CE, UL508, RoHS

Product Specifications

Part Number to Order	PFXSP5B10
	PFXSP5B10F0C*
SD Card	2 slots
Serial Ports (COM1)	RS-232C / 422 / 485
Serial Ports (COM2)	RS-232C / 422 / 485
Ethernet	x2
USB (1)	USB 2.0 (Type-A)
USB (2)	USB 2.0 (Type-A)
USB (3)	USB 2.0 (mini-B)
Sound Output	Speaker output 300mW (rated load: 8ohm, Frequency: 1kHz)
Sound Input	n/a
Video Output Interface	n/a
AUX Input	n/a
AUX Output	Alarm Output / Buzzer Output

* F0C suffix denotes product is conformal coated

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HMI Accessories

Cables, Modules, Adapters,
Storage Media, Fastners, Gaskets

Cables / Adapters

Part Number to Order

AGP3000H-ADPCOM-01	Conversion Adapter for interfacing with a GP3000H Cable Connector and External Output terminal block."
CA3-CBL232/5M-01	Cable for RS-232C connection between various hosts and the GP4000 (5m)
CA3-ADPCOM-01	COM 1 Pin conversion adapter on the GP3000
CA3-ADPSEI-01	Adapter for SIEMENS MPI when using Profibus connector and cabling w/ AGP3000.
CA3-ADPTRM-01	Connects output from a GP unit's Serial Interface (D-sub 9 pin socket) directly with an RS-422 terminal block.
CA3-CBL422-01	Cable for RS-422 connection between various hosts and the GP4000 (Plug Type) (5m)
CA3-CBL422/5M-01	Cable for RS-422 connection between various hosts and the GP4000 (Socket Type) (5m)
CA3-CBLA-01	Cable for directly connecting an A Series CPU (5m)
CA3-CBLCBT232-01	Cable for converting a D-Sub 9-pin plug to a D-Sub 25-pin socket (20cm)
CA3-CBLCBT422-01	Connects a standard RS-422 cable (GP Connector,D-Sub 25-pin) to the GP (20cm)
CA3-CBLFX/1M-01	Cable for directly connecting an FX Series CPU (1m)
CA3-CBLFX/5M-01	Cable for directly connecting an FX Series CPU (5m)
CA3-CBLLNKMQ-01	Cable for directly connecting a Q Series Link Unit (5m)
CA3-CBLMLT-01	Connects a host controller to the GP for multi-link(n:1) communication
CA3-CBLQ-01	Cable for directly connecting a Q Series CPU (5m)
CA3-CBLSYS-01	Cable for directly connecting a SYSMAC Link Unit (5m)
CA3-ISO232-01	Unit for connecting various hosts and the GP4000 by insulating
CA3-ISO485-01	Unit for connecting various hosts and the GP3000 by insulating
CA3-MDCB11	Cable for connecting a 2-port adapter to the GP3000 (5m)
CA3-MPI-PG1-PFE	Connects a host controller to the GP for MPI communication.
CA3-MPI-PGN-PFE	Connects a host controller to the GP for MPI communication.
CA4-ADPONL-01	For COM 2 Termination adapter required for communication through the RS-422/485 connection

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HMI Accessories

Cables, Modules, Adapters,
Storage Media, Fastners, Gaskets

Cables / Adapters

Part Number to Order

CA6-CBLTTY/5M-01	Cable for connecting a PLC S5 series to the GP (5m)
CA7-CBLCVRGB-01	For converting DVI-A to RGB
CA9-USBAMB/5M-01	USB cable for RGB Input Unit touch panel operation (Host-Slave: Mini-B) (5m)
FN-CABLE2010-31-MS	Connects GP3000 units to the Flex Network modules
FN-CABLE2050-31-MS	Connects GP3000 units to the Flex Network modules
FN-CABLE2200-31-MS	Connects GP3000 units to the Flex Network modules
FP-CV02-45	For outputing image signal from host to GP (4.5m)
FP-DV01-100	For outputing image signal from host to GP (10m)
FP-DV01-50	For outputing image signal from host to GP (5m)
GP070-MD11	Interface unit required for simultaneous use of A/QnA/FX Series peripheral devices
GP2000H-AP232	Conversion adapter to connect GP operation data to RS-232C D-Sub and power/DIO terminals.
GP2000H-AP422	Conversion adapter to connect GP operation data to RS-422 and power/DIO terminals.
GP3000-MPI21-PFE	Connects a host controller to the GP for MPI communication (Online adapter is included in the package)
GP3000-MPI21-PFE	Connects a Siemens S7-200 CPU215+, S7-300, S7-400 (3.5m)
GP3000H-CBLH-10M	Heavy-duty type interface cable for communication between the GP and external equipment
GP3000H-CBLHD-10M	Heavy-duty type cable between the GP3000H Conversion Adapter and the GP3000H.
GP3000H-CBLS-10M	Standard type interface cable for communication between the GP andexternal equipment
GP3000H-CBLS-3M	Standard type interface cable for communication between the GP andexternal equipment
GP3000H-CBLS-5M	Standard type interface cable for communication between the GP andexternal equipment
GP3000H-CBLSD-10M	Standard type cable between the GP3000H Conversion Adapter and the GP3000H.
GP3000H-CBLSD-3M	Standard type cable between the GP3000H Conversion Adapter and the GP3000H.

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HMI Accessories

Cables / Adapters

GP3000H-CBLSD-5M	Standard type cable between the GP3000H Conversion Adapter and the GP3000H.
GP3000H-CBLSD232-10M	The cable between the GP2000H Series RS-232C Conversion Adapter and the GP3000H
GP3000H-CBLSD232-3M	The cable between the GP2000H Series RS-232C Conversion Adapter and the GP3000H
GP3000H-CBLSD422-10M	The cable between the GP2000H Series RS-422 Conversion Adapter and the GP3000H
GP3000H-CBLSD422-3M	The cable between the GP2000H Series RS-422 Conversion Adapter and the GP3000H
HMI-CAB-ST52	RS-232C Cable provides direct connection to Allen-Bradley SLC5/03, 5/04, Contrologix, & Compactlogix PLCs (12ft)
HMI-CAB-ST52-30X	RS-232C Cable provides direct connection to Allen-Bradley SLC5/03, 5/04, Contrologix, & Compactlogix PLCs (30ft)
HMI-CAB-ST52-50X	RS-232C Cable provides direct connection to Allen-Bradley SLC5/03, 5/04, Contrologix, & Compactlogix PLCs (50ft)
PFXZCBADTM1	Connects output from a GP unit's Serial Interface (D-sub 9 pin plug) directly with an RS-422 terminal block.
PFXZCBCBCVR41	Cable for converting a D-Sub 9-pin plug to a D-Sub 25-pin socket (20cm)
PFXZCBCBMD1	Connects Mitsubishi PLC directly to the GP4000 (D-sub 9 pin plug) using 2 port adapter II (RS-422) (5m)
PFXZCBCBML1	Connects a host controller directly to the GP4000 (D-sub 9 pin plug) for multi-link (n:1) communication.
PFXZLMCBRJR21	Cable with loose wires at one end for RS-232C connection between various hosts and the LT (5m)
PFXZLMCBRJR81	Cable with loose wires at one end for RS-485 connection between various hosts and the LT (5m)
PFXZXMADSM31	Cable with hook to install a rear module on a DIN rail while connecting rear module to a separated display module (3m)
PFXZXMADSM51	Cable with hook to install a rear module on a DIN rail while connecting rear module to a separated display module (5m)
ST03-A2B-MPI21-PFE	Connects a host controller to the GP for MPI communication.
ZC9CBA51	Connects the GP directly to the CPU programming port on the Mitsubishi Electric PLC A/ QnA series (5m)
ZC9CBFP21	Connects the GP directly to the CPU port on the Panasonic Electric Works PLC FP series (2m)
ZC9CBFX11	Connect the GP directly to the CPU programming port on the Mitsubishi Electric PLC FX series (1m)
ZC9CBFX51	Connect the GP directly to the CPU programming port on the Mitsubishi Electric PLC FX series (5m)
ZC9CBQ31	Connects the GP directly to the CPU programming port on the Mitsubishi Electric PLC Q series (3m)

HMI Accessories

Modules / Expansion / FLEX

EXM-DDI8DT	8-point sink-source shared type expansion unit
EXM-DDI16DT	16-point sink-source shared type expansion unit
CA5-PFSALL/EX-01	Expansion unit enables GP in the PROFIBUS network and communication with the PROFIBUS DP master
CA6-DNSALL/EX-01	Expansion unit enables GP in the DeviceNet network and communication with the DeviceNet master
CA7-CCLALL/EX-01	Expansion unit enables GP in the CC-Link network and communication with the CC-Link master
CA8-CANLT-01	Master unit to connect to a slave unit supporting CANopen
CA9-CANALL/EX-01	Expansion unit enables GP in the CANopen network and communication with the CANopen master
EXM-ALM3LT	2-ch analog input/ 1-ch analog output type expansion unit
EXM-AMI2HT	2-ch analog input type expansion unit
EXM-AMI4LT	4-ch Voltage, Current, Temperature Expansion Unit
EXM-AMM3HT	2-ch analog input/ 1-ch analog output type expansion unit
EXM-AMM6HT	4-ch analog input/ 2-ch analog output expansion unit
EXM-AMO1HT	1-ch analog output type expansion unit
EXM-ARI8LT	8-ch temperature input type expansion unit
EXM-AVO2HT	2-ch analog output type expansion unit
EXM-DDO16TK	16-point transistor output source type expansion unit
EXM-DDO16UK	16-point transistor output sink type expansion unit
EXM-DDO8TT	8-point transistor output source type expansion unit
EXM-DDO8UT	8-point transistor output sink type expansion unit
EXM-DMM24DRF	16-point input sink-source/ 8-point relay output mixed I/O type expansion unit
EXM-DMM8DRT	4-point input sink-source and 4-point relay output type expansion unit (1 common) mixed I/O unit
EXM-DRA16RT	16-point relay output (2 common) type expansion unit
EXM-DRA8RT	8-point relay output (2 common) type expansion unit

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HMI Accessories

Modules / Expansion / FLEX

FN-AD02AH41	Converts 2-channel analog signals to digital signals
FN-AD04AH11	Converts 4-channel analog signals to digital signals
FN-DA02AH41	Converts 2-channel 12-bit digital signals to analog signals and outputs the result
FN-DA04AH11	Converts 4-channel 12-bit digital signals to analog signals and outputs the result
FN-X32TS41	I/O unit of 32-point input sink/source sharing type
FN-XY16SC41	Input/output combination I/O unit of 16-point input sink/source and 16-point transistor output Source type
FN-XY16SK41	Input/output combination I/O unit of 16-point input sink/source and 16-point transistor output Sink type
FN-XY32SKS41	Input/output combination I/O unit of 32-point input sink/source and 32-point transistor output Sink type
GP3000-DVI01	For inputting DVI to GP
GP3000-VM01	Video-Mix Unit (262,000 colors, Video Input x 4ch, DVI Input x 1ch, DVI Output x 1ch, VGA/SVGA/XGA)
HTB1C0DM9LP	Slave unit supporting CANopen with 12 digital inputs, 6 relay outputs and 2 transistor source outputs.

Storage/ Misc.

CA3-CFCALL/256MB-01	CF Card (256MB)
CA3-CFCALL/512MB-01	CF Card (512MB)
CA3-DFS12-01	Disposable, dirt-resistant sheet for the GP unit's screen (5 sheets/set)
CA3-DFS15-01	Disposable, dirt-resistant sheet for the GP unit's screen (5 sheets/set)
CA3-DFS6-01	Sheet for protecting the front of the display unit from fingerprints, water droplets, powders, dust, & oil mist (5 pcs/ set)
CA3-USBCB-01	Cable for transferring screen data between a PC (USB Type A) and the GP unit (USB Type A) (2m)
CA4-ATM10-01	Panel cutout adapter for mounting 10.4-inch GP in cutout for GP-2500/2600 series.
CA4-ATM5-01	Panel cutout adapter for mounting a 5.7-inch display unit in cutout for LT Series (Type A/B/B+/C/H) and GP-37W2B
CA5-DFS10-01	Disposable, dirt-resistant sheet for the GP unit's screen (5 sheets/set)
CA5-USBATM-01	USB Cable clamp for 1 port products to prevent disconnection.

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HMI Accessories

Storage / Misc.

CA5-USBEXT-01	Extension cable for attaching to USB port on front panel (1m)
CA6-CFCALL/1GB-01	CF Card (1GB)
CA6-DFS4-01	Disposable, dirt-resistant sheet for the GP unit screen (5 sheets/set)
CA6-USB232-01	Cable for converting a GP unit's USB interface into a serial interface (RS-232C). (50cm)
CA7-DFS12-01	Disposable, dirt-resistant sheet for the GP unit screen (5 sheets/set)
CA7-TPPEN/ALL-01	5 touch pens for screen operation.
CA8-CFCALL/2GB-01	CF Card (2GB)
CA8-USBATALL-01	USB Cable clamp for 1 port products to prevent disconnection.
CA9-USBATRGB/MB-01	Disconnection prevention clamp for the RGB Input USB (miniB) Cable (2 pcs/set)
FP-US00	Connects a USB printer (TYPE-B) (5m)
GP077-CFAD10	Used for read/write of CF Card data via a PC's PCMCIA slot.
GP077-SDAD10	Adapter for converting the audio output section to the AUX connector to a pin jack
GP2000H-STRAP11	Strap for wearing over the neck.
GP3000-EXDM01	Memory used for expanding GP-Pro EX alarm and character table functions
GP3000H-DFS6-01	Disposable, dirt-resistant sheet for the GP unit's screen. (5 sheets/set) (Hard type)
GP3000H-WMA-01	Bracket for mounting the GP3000H Series unit to a commercially available arm or panel.
HMI-CAB-ETH	Directly connect via Ethernet either the PC to the HMI for programming or the HMI to the PLC for communications (5m)
HMI-CAB-ST001	Connects DB9 COM port with 9 open ended wires for connecting to 3rd party screw terminal devices (5m)
PFXZCBCBCVUSR41	Cable for connecting a GP unit (USB Type A) with an external device (RS-422/RS-485)
PFXZCBDS101	Disposable, dirt-resistant sheet for the GP unit screen (5 sheets/set)
PFXZCBDS61	Disposable, dirt-resistant sheet for the GP unit screen (5 sheets/set)
PFXZCBDS71	Disposable, dirt-resistant sheet for the GP unit screen (5 sheets/set)

HMI Accessories

Storage / Misc.

PFXZCBDS72	Disposable, dirt-resistant sheet for the GP unit screen (5 sheets/set)
PFXZCBOP101	Disposable, environmental resistant cover for 10.4 inch (1 sheet/set)
PFXZCBOP121	Disposable, environmental resistant cover for 12.1 inch (1 sheet/set)
PFXZCBOP41	Disposable, environmental resistant cover for 3.5 inch (1 sheet/set)
PFXZCBOP61	Disposable, environmental resistant cover for 5.7 inch (1 sheet/set)
PFXZCBOP71	Disposable, environmental resistant cover for 7.0/7.5 inch (1 sheet/set)
PFXZCBSD4GC41	SD Memory Card (4 GB, CLASS4)
PFXZCDAT72	Panel cutout adapter for mounting 7-inch Wide Advanced Display in cutout for GP-2400, GP-3400, and GP-4400 Series.
PFXZCDCNAUX1	AUX connector required in case an external output is used (5 pcs/set)
PFXZCDCVUS1	Front USB cover with fixing screw, corresponding to IP66f, IP67f, Type 1/4X. Indoor use only. (5 pieces/set)
PFXZCDDS102	Disposable, dirt-resistant sheet for the display (5 sheets/set)
PFXZCDDS122	Disposable, dirt-resistant sheet for the display (5 sheets/set)
PFXZCDSCCFA321	CFast Card (32 GB, SLC)
PFXZGPFSR10W1	Overlay (Front Sheet) for Flat mount of GP4000 Rear Mount model (Color: White, 1 piece)
PFXZGPFSR12W1	Overlay (Front Sheet) for Flat mount of GP4000 Rear Mount model (Color: White, 1 piece)
PFXZGPFSR6W1	Overlay (Front Sheet) for Flat mount of GP4000 Rear Mount model (Color: White, 1 piece)
PFXZGPFSR7W1	Overlay (Front Sheet) for Flat mount of GP4000 Rear Mount model (Color: White, 1 piece)
PS400-DF00	Disposable, dirt-resistant sheet for the GP unit's screen (5 sheets/set)
ZC9DS31	Disposable, dirt-resistant sheet for the GP unit's screen (5 sheets/set)
ZC9USCBMB1	Cable for transferring screen data between a PC (USB Type A) and the GP unit (USB mini- B) (1.8 m)
ZC9USCL1	USB (Type A) Cable clamp for 1 port products to prevent disconnection (5 clamps/ set)
ZC9USEXMB1	Extension cable that attaches to the USB (mini-B) interface on the front side of the operation panel (1m)

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HMI Accessories

EZ Series

CA5-USBEXT-01	Extension cable attaching USB (Type A) interface to front panel (1m)
PFXZCCAK1	Accessories Kit — Anti-rotation Tee, USB cable clamp to prevent disconnection (USB/B, 1 port), (5 pcs/each)
	Insert Label for EZ Illuminated Switch (3 pieces/sheet)
PFXZCCAKKB1	Accessories Kit — Anti-rotation Tee (5pcs), USB cable clamp to prevent disconnection (USB/mini-B, 1 port, 5pcs)
	Function Key Label for EZ Numpad (2pcs/sheet)
PFXZCCAT1	2mm spacer to adjust installation panel thickness (for EZ Illuminated Switch), with 22mm circular hole
PFXZCCCVSS1	A protective cover to protect the sensing screen of EZ Fingerprint Recognition Unit (5 pcs/set)
PFXZCCNTSS1	Nut to install EZ Fingerprint Recognition Unit (5 pcs/set)
PFXZCDWGSG1	Provides dust and moisture resistance when EZ Illuminated Switch is installed into a solid panel (1 piece)
PFXZCEATWM1	Attachment mounts the EZ Series Unit on the wall. Please use it when holding the EZ Series in your hands
PFXZGMNT1	Nut for installation to a solid panel (10 pieces/set)
PFXZGMSW1	Socket wrench to tighten and loosen the installation nut (1 piece/set)
XVGUZ02	Cable lock to prevent disconnection of USB cable
ZC9USCBMB1	Cable for connecting from an EZ Tower Light to a Pro-face's interface unit (USB A/mini B) (1.8m)

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HMI Replacement Parts

Fastners / Gaskets

CA3-ATFALL-01	Used to install the LT into a solid panel. (4 pcs/ set)
CA3-ATFALL-01	Installation fasteners for main unit (4 pcs/set)
CA3-WPG12-01	Provides dust and moisture resistance when GP is installed into a solid panel
CA3-WPG15-01	Provides dust and moisture resistance when GP is installed into a solid panel
CA3-WPG6-01	Provides dust and moisture resistance when LT is installed into a solid panel
CA3-WPG6-01	Provides dust and moisture resistance when GP is installed into a solid panel
CA5-WPG10-01	Provides dust and moisture resistance when GP is installed into a solid panel
CA5-WPG8-01	Provides dust and moisture resistance when GP is installed into a solid panel
GP3000H-WPGADP-01	Provides dust and moisture resistance when GP3000H Conversion Adapter is installed into a solid panel
PFXZCBAF1	Used to install the GP into a solid panel (4 pieces/ set)
PFXZCBWG101	Provides dust and moisture resistance when GP is installed into a solid panel (1 piece)
PFXZCBWG121	Provides dust and moisture resistance when GP is installed into a solid panel (1 piece)
PFXZCBWG41	Provides dust and moisture resistance when GP is installed into a solid panel (1 piece)
PFXZCBWG61	Provides dust and moisture resistance when GP is installed into a solid panel (1 piece)
PFXZCBWG71	Provides dust and moisture resistance when GP is installed into a solid panel (1 piece)
PFXZCDWG101	Provides dust and moisture resistance when this product is installed into a solid panel (1 piece)
PFXZCDWG102	Provides dust and moisture resistance when this product is installed into a solid panel (1 piece)
PFXZCDWG121	Provides dust and moisture resistance when this product is installed into a solid panel (1 piece)
PFXZCDWG122	Provides dust and moisture resistance when this product is installed into a solid panel (1 piece)
PFXZCDWG151	Provides dust and moisture resistance when this product is installed into a solid panel (1 piece)
PFXZCDWG72	Provides dust and moisture resistance when this product is installed into a solid panel (1 piece)
PFXZGPAFRL1	Used to install the GP4000 Rear Mount model into a solid panel (2 pieces/set)
PFXZGPAFRM1	Used to install the GP4000 Rear Mount model into a solid panel (2 pieces/set)

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HMI Replacement Parts

Fastners / Gaskets

PFXZGPWGR1	GP4000 Rear Mount model Installation Gasket (1 piece)
ST400-WP01	Provides dust and moisture resistance when LT is installed into a solid panel
ZC9AF31	Used to install the GP into a solid panel (2 pieces/ set)
ZC9WG31	Provides dust and moisture resistance when GP is installed into a solid panel (1 piece)

Connectors

CA5-AUXCNALL-01	AUX connector for GP3000 series required in case an external output is used. (5 pcs/set)
CA5-DCCNL-01	Connector to connect power supply cables (5 pcs/set)
CA5-DCCNM-01	Connector for attaching power supply to medium-sized units (5 pcs/set)
CA5-DCCNM-01	Connector to connect power supply cables (5 pcs/set)
CA6-DIOCN4-01	Connector attached to the DIO interface. Connects an external I/O device. (5 pcs/ set)
CA6-DIOCNALL-01	Connector attached to the DIO interface. Connects an external I/O device. (5 pcs/set)
CA6-FNCNALL-01	Connector attached to the FLEX NETWORK interface. Connects a FLEX NETWORK communication cable. (5 pcs/set)
CA7-DIOCN5-01	Connector attached to the DIO interface. Connects an external I/O device. (5 pcs/ set)
GLC-DIOCN03	FN-XY32SK41 Connectors (2 pcs/set)
PFXZCBCNDC1	Connector to connect DC powe rsupply cables (Straight type, 5pcs/set)
PFXZCBCNDC2	Right-angle connector to connect DC power supply cables (Angle type, 5pcs/set)
PFXZGMCNDC1	Connector to connect DC power supply cables (5 pcs/set)
PFXZLMCNIO1	I/O connector 15-pin (2 pcs/set) and I/O connector 6-pin (2 pcs/set)
ZC9CMC1	Connector for Serial I/F (1 piece)
ZCACNDCS1	Connector for attaching power supply to 3.4-inch GP units. (Set of 5 connectors)

HMI Replacement Parts

Storage / Misc.

CA3-BLU12-01 *4	Replacement backlight for main unit (1 pc.)
CA3-BLU15-01 *3	Replacement backlight for main unit (1 pc.)
CA3-BUSCVR-01	Protects the GP unit's rear face connector. (Large size and small size each in one set)
CA5-BLU10T-01 *5	Replacement backlight for main unit (1 pc.)
CA5-USBATL-01	USB Cable clamp to prevent disconnection (5 pcs/ set)
CA6-BLU10T-02 *5	Replacement backlight for main unit (1 pc.)
CA6-EXMCNHE20P-01	Connecter for EX module (5 pcs/ set)
CA6-EXMCNRS10P-01	Connecter for EX module (5 pcs/ set)
CA6-EXMCNRS11P-01	Connecter for EX module (5 pcs/ set)
CA7-FIXEXM-01	Hook for securing three EX modules.
CA7-HTBCNSET-01	13-pin input connector and 16-pin output connector for HTB (each in one set)
CA7-USBAT-01	USB Cable clamp to prevent disconnection (5 pcs/ set)
GP3000H-DUPS-01	5 sheets/set (x 5) for changing image of the function switches.
GP3000H-EMGD-01	Emergency Switch Guard for preventing accidental operation.
GP3000H-HS-01	Strap for handheld operation.
PFXGM4200TP	For LT4000M/GP4000M Series Display Modular type, 3.5-inch
PFXGM4300TP	For LT4000M/GP4000M Series Display Modular type, 5.7-inch
PFXLM4B01DAC	LT4000M Analog model Rear Module, Source Output, DC24V (Main Unit)
PFXLM4B01DAK	LT4000M Analog model Rear Module, Sink Output, DC24V (Main Unit)
PFXLM4B01DDC	LT4000M DIO model Rear Module, Source Output, DC24V (Main Unit)
PFXLM4B01DDK	LT4000M DIO model Rear Module, Sink Output, DC24V (Main Unit)
PFXZCBBT1	Primary battery for memory and time data backup (1 piece)
PFXZCBCLUSA1	Clamp to prevent disconnection of USB cable (1 port, 5 pcs/set)

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HMI Replacement Parts

<div align="right">Cables, Modules, Adapters,
Storage Media, Fastners, Gaskets</div>

Storage / Misc.

PFXZCDSCCFA162	CFast Card (16 GB, MLC) for System Card
PFXZCDSD1GC61	SD Memory Card (1 GB, SLC, Class 6) for System Card
PFXZGMAK1	Accessories Kit — Anti-rotation Tee, USB cable clamp to prevent disconnection (USB Type A, Mini B, for 1 port), 2mm-hight spacer to adjust installation panel thickness (1pc/each)
PFXZGMNT1	Nut to install the display module (10 pcs/set)
PFXZGMSW1	Socket wrench to tighten and loosen the display installation nut (1 pc/set)
PFXZXMADSA1	DIN rail installtion adapter for rear modules in non-display operation
PS501S-BU00	Replacement backlight for main unit (2 pcs/set)
ZC9USCLMB1	Clamp to prevent disconnection of USB cable (1 port, 5 pcs/set)

EZ Series

PFXZCDWGSG1	Provides dust and moisture resistance when EZ Illuminated Switch is installed into a solid panel (1 piece)
PFXZGMNT1	Nut for installation to a solid panel (10 pieces/set)
PFXZGMSW1	Socket wrench to tighten and loosen the installation nut (1 piece/set)
XVGUZ02	Cable lock to prevent disconnection of USB cable

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PE4000B Node Box

Description

The PE4000B is an industrial computer that can be embedded in data loggers, low-voltage power supply systems, and other equipment on the production work site. Compared to previous embedded industrial computers developed and manufactured by Pro-face, the new product is 60% smaller by volume and 38% lighter by weight.

The PE4000B Series industrial computer is equipped with up to six serial ports and three Ethernet ports, and responds to the need for peace-of-mind when used in conjunction with a data logger for data collection. It can also be used with automatic guided vehicles (AGVs), picking carts, and similar equipment powered by 12 to 24 V batteries.

The new PE4000B Series industrial computer can be combined with Pro-face's remote application software, Pro-face Remote HMI to enable remote confirmation and operation via a tablet or similar device. By supporting remote confirmation and operation, the need for a permanent monitor for embedded industrial computers can be eliminated, allowing the operator to check and operate machinery at any time using a tablet or smartphone.

Features

• Check real time production data, and check battery or location with Pro-face mobility solutions for remote access

• Highly compact design and mountable via DIN rail or directly, allowing freedom of product placement and convenient installation

• No moving/rotating parts such as fan or HDD

• Energy efficient design with low heat emission

• Available with either a 9 to 36 VDC or 12 to 24 VDC power supply in a total of six models

• Equipped with up to six serial ports, three Ethernet ports, five USB ports, and eight digital I/O ports

•CF/CFast card compatible with embedded OS and SSD for use in environments with a lot of vibration

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Atom N2600 – PE4000B

Fanless Industrial PC

General Specifications

Models	PE4000B
CPU	Intel Atom Dual Core N2600 1.6 GHz
Rated Input Voltage	12 to 24 Vdc ±5 %
Power Consumption	16 W (Typically)
External Dementions	264.5 x 69.19 x 133 mm (10.41 x 2.72 x 5.24 in.)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Ambient Operating Temp	w/ air flow: 0 to 60 °C (32 to 140 °F)
	w/o airflow: 0 to 50 °C (32 to 122 °F)
Environmental Ratings	IP40
Certifications	CE, UL UL60950, RCM (C-Tick), EAC (GOST-R), RoHS, REACH, KC, CCC

Product Specifications

Part Number to Order	PFXPEBBD42DNN1	PFXPEBBD42CNN1	PFXPEBBD21BNN1	PFXPEBBD40NNN1
Operating System	Windows® Embedded Standard 7 (32bit)	Windows® Embedded Standard 7 (32bit)	Windows® Embedded Standard 2009 (32bit)	None
Storage	SSD 80GB	CFast Card 16GB	CFast card 8GB	None
Expansion Slot	Mini PCIe (full size) x 1	Mini PCIe (full size) x 1	Mini PCIe (full size) x 1	Mini PCIe (full size) x 1
RAM	4 GB (DDR3 800 MHz)	4 GB (DDR3 800 MHz)	2 GB (DDR3 800 MHz)	4 GB (DDR3 800 MHz)
Serial Port	RS-232C x2, RS-232/422/485 x4	RS-232C x2, RS-232/422/485 x4	RS-232C x2, RS-232/422/485 x4	RS-232C x2, RS-232/422/485 x4
Ethernet	x3	x3	x3	x3
USB	TypeA (USB2.0) x5	TypeA (USB2.0) x5	TypeA (USB2.0) x5	TypeA (USB2.0) x5
Digital I/O	8 bits (selectable I/O)	8 bits (selectable I/O)	8 bits (selectable I/O)	8 bits (selectable I/O)
Video Interface	Analog RGB x1, HDMI x1	Analog RGB x1, HDMI x1	Analog RGB x1, HDMI x1	Analog RGB x1, HDMI x1
Sound Interface	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in

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Atom N270 – PE4000B

Fanless Industrial PC

General Specifications

Models	PE4000B
CPU	Intel Atom N270 1.6 GHz
Rated Input Voltage	9 to 36 Vdc ±5 %
Power Consumption	15 W (Typically)
External Dementions	254.8 x 58.7 x 149.2 mm (10.03 x 2.31 x 5.88 in.)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Ambient Operating Temp	w/ air flow: 0 to 70 °C (32 to 158 °F)
	w/o airflow: 0 to 60 °C (32 to 140°F)
Environmental Ratings	IP40
Certifications	CE, UL UL60950, RCM (C-Tick), EAC (GOST-R), RoHS, REACH, KC, CCC

Product Specifications

Part Number to Order	PFXPEBAD21ANN1	PFXPEBAD20NNN1
Operating System	Windows® Embedded Standard 2009 (32bit)	None
Storage	CF Card 8GB	None
Expansion Slot	Mini PCIe (half size) x 1	Mini PCIe (half size) x 1
RAM	2 GB (DDR2 533 MHz)	2 GB (DDR2 533 MHz)
Serial Port	RS-232C x2	RS-232C x2
Ethernet	x1	x1
USB	TypeA (USB2.0) x2	TypeA (USB2.0) x2
Digital I/O	n/a	n/a
Video Interface	Analog RGB x 1	Analog RGB x 1
Sound Interface	n/a	n/a

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PS4000B Node Box

The PS4000B features an Core™2 Duo P8400 or Atom™ N270 processor, creating a powerful system for any production floor. Its aluminum housing adds to the PCs durability, while its multiple I/O ports lend to its flexibility.

Mate this industrial computer with one of Pro-face's Flat Panel Monitors for a complete industrial computing solution. The PS4000B can also be installed remotely from one of our FP3000 Series units.

3D CAD   **360**

General Specifications

Models	PS4000B (Build to Order)
Operating System	Windows® XP Professional SP3, Windows® 7 Ultimate, Windows® Embedded Standard 2009, Windows® Embedded Standard
Serial Port (COM)	RS-232C x2
Ethernet Interface	x2
USB	TypeA (USB2.0) x5
Storage Temperature	-20 to 60 °C (-4 to 140 °F)
Ambient Operating Temp	0 to 50 °C (32 to 122 °F)
Environmental Ratings	IP20
Rated Input Voltage	24 Vdc ±25 %
Power Consumption	90 W (Core 2 Duo), 60W (Atom)
External Dimensions	W217 x H270 x D251 mm (W8.54 x H10.63 x D9.89 in.)

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PS4000B Node Box

Product Options		Configure PS4000B	Find Distributor

Expansion Slot	1 slot = 1 PCI 2 slots = 1 PCI + 1 PCIe(x4) 2 slots = 2 PCI 5 slots = 2 PCI + 3 PCIe(x1) 5 slots = 4 PCI + 1 PCIe(x1)
CPU Type	Atom N270 Core 2 Duo P8400
Power Supply	DC DC with I/F for UPS battery unit DC with Noise Filter for Marine Certification DC with I/F for UPS battery unit and Noise Filter for Marine Certification
RAM	1GB 2GB 3GB (2GB+1GB) 4GB (2GB+2GB) 6GB (4GB+2GB) 8GB (4GB+4GB)
Operating System	None Windows Embedded Standard 2009 Windows XP Pro Japanese Windows XP Pro MUI Windows Embedded Standard 7 (32bit) Windows 7 Ultimate (32bit) Windows 7 Ultimate (64bit)
Storage Device	None CF 4GB CF 8GB HDD 500GB SSD 60GB
Storage Device	None CF 4GB CF 8GB SSD 80GB SSD 32GB SHD 250GB
Slide-in Slot	None DVD multi drive SSD 32GB SSD 80GB SHD 250GB DVD+SHD 250GB DVD+PSD 32GB DVD+SSD 80GB
Options	None DVI-D I/F Expansion Board COM Expansion Board RS-232C/422/485 DVI-D I/F Expansion Board + COM Expansion Board RS-232C/422/485

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PS4600 Panel PC

The PS4600 features an Core™ i3 or Celeron 827 processor, creating a powerful system for any production floor. Its aluminum housing adds to the PC's durability, while its multiple I/O ports lend to its flexibility. These units provide more robust storage options, along with quick and easy storage expansion. The bright and crisp TFT color display is also complemented with different screen size options.

General Specifications

Models	PS4600 (Build to Order)
Operating System	Windows® XP Professional SP3 (32bit), Windows® 7 Ultimate (32 or 64bit),
	Windows® Embedded Standard 2009 (32bit), Windows® Embedded Standard 7 Premium (32bit)
Display Type and Size	TFT Color LCD 12.1"
Graphic Display Resolution	1,024 x 768 pixels (XGA)
Touch Panel Type	Analog resistive film
Serial Port (COM)	RS-232C x2
Ethernet Interface	x2
USB	TypeA (USB2.0) x5
Backlight	LED
Storage Temperature	-20 to 60 °C (-4 to 140 °F)
Ambient Operating Temp	Operating temperature dependant on unit model. See PS4600 manual for exact temperature.
Environmental Ratings	IP65, Type 4X (Indoor use only)
Rated Input Voltage	24Vdc or 100 to 240 Vac
Power Consumption	130 W (max.)
External Dimensions	Dimensions dependant on unit model. See PS4000 Manual for exact dimensions.
Panel Cutout Dimentions	W301.5 x H227.5 mm (W11.87 x H8.96 in.)

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PS4600 Panel PC

Product Options		Configure PS4600	Find Distributor

Front Bezel	Aluminum No Bezel (Rear Mount)
Expansion Slot	0 slot 1 slot = 1 PCI 1 slot = 1 PCIe 2 slots = 1 PCI + 1 PCIe 2 slots = 2 PCI
CPU Type	Celeron 827E Core i3 3217UE
Power Supply	AC AC with I/F for UPS battery unit DC DC with I/F for UPS battery unit
RAM	1GB 2GB 3GB (2GB+1GB) 4GB (4GB) 6GB (4GB+2GB) 8GB (4GB+4GB) 12GB (8GB+4GB) 16GB (8GB+8GB)
OS	None Windows Embedded Standard 2009 Windows XP Pro Japanese Windows XP Pro MUI Windows Embedded Standard 7 (32bit) Windows 7 Ultimate (32bit) Windows 7 Ultimate (64bit)
Storage Device	None CFast 4GB CFast 8GB CFast 16GB CFast 4GB + CFast 4GB CFast 8GB + CFast 4GB SSD 60GB SSD 80GB SHD 500GB
Slide-in Slot	None DVD multi drive SSD 60GB SSD 80GB SHD 500GB
Options	None COM Expansion Board RS-232C/422/485 COM Expansion Board RS-232C/422/485 + COM Expansion Board RS-232C/422/485

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PS4700 Panel PC

The PS4700 features an Atom™ N270 processor, creating a powerful system for any production floor. Its aluminum housing adds to the PC's durability, while its multiple I/O ports lend to its flexibility. These units provide more robust storage options, along with quick and easy storage expansion. The bright and crisp TFT color display is also complemented with different screen size options. There are also stainless steel options which supports ATEX.

General Specifications

Models	PS4700 (Build to Order)
Operating System	Windows® XP Professional SP3, Windows® 7 Ultimate,
	Windows® Embedded Standard 2009, Windows® Embedded Standard 7
Display Type and Size	TFT Color LCD 15"
Graphic Display Resolution	1,024 x 768 pixels (XGA)
Touch Panel Type	Analog resistive film
Serial Port (COM)	RS-232C x2
Ethernet Interface	x2
USB	TypeA (USB2.0) x5
Backlight	LED
Storage Temperature	-20 to 60 °C (-4 to 140 °F)
Ambient Operatng Temp	0 to 50 °C (32 to 122 °F)
Environmental Ratings	IEC60529 IP65, UL50E Type 4X
Rated Input Voltage	24Vdc or 100 to 240 Vac
Power Consumption	Core™2 Duo: 100 W / Atom™: 70 W
External Dimensions	Core™2 Duo: W480 x H380 x D175.2 mm (W18.90 x H14.96 x D6.893 in.)
	Atom™: W480 x H380 x D160 mm (W18.90 x H14.96 x D6.293 in.)
Panel Cutout Dimentions	W459.5 x H359.5 mm (W18.09 x H14.15 in.)

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PS4700 Panel PC

Product Options

Configure PS4700   Find Distributor

Front Bezel Material	Aluminum Stainless Steel
Expansion Slot	0 slot 1 slot = 1 PCI 2 slots = 1 PCI + 1 PCIe(x4) 2 slots = 2 PCI
CPU Type	Atom N270 Core 2 Duo P8400
Power Supply	AC DC DC with I/F for UPS battery unit DC with Noise Filter for Marine Certification DC with I/F for UPS battery unit and Noise Filter for Marine Certification
RAM	1GB 2GB 3GB (2GB+1GB) 4GB (2GB+2GB) 6GB (4GB+2GB) 8GB (4GB+4GB)
Operating System	None Windows Embedded Standard 2009 Windows XP Pro Japanese Windows XP Pro MUI Windows Embedded Standard 7(32bit) Windows 7 Ultimate (32bit) Windows 7 Ultimate (64bit)
Storage Device	None CFast 4GB CFast 8GB SSD 80GB SSD 32GB SHD 250GB
Slide-in Slot	None DVD multi drive SSD 32GB SSD 80GB SHD 250GB
Options	None COM Expansion Board RS-232C/422/485

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PS4700 (Z510) Panel PC

The PS4700 Z510 features a Atom™ Z510 processor, creating a powerful system for any production floor. Its aluminum housing adds to the PC's durability, while its multiple I/O ports lend to its flexibility. Customers have a choice of an aluminum, or stainless steel bezel to accommodate different environments. This unit also has low power consumption, along with being a diskless and fanless PC. There are also stainless steel options, which support ATEX.

3D CAD

General Specifications

|	
Models	PS4700 (Embedded Model) (Build to Order)
Operating System	Windows® Embedded Standard 2009
Display Type and Size	TFT Color LCD 15"
Graphic Display Resolution	1,024 x 768 pixels (XGA)
Touch Panel Type	Analog resistive film
Serial Port (COM)	RS-232C x1
Ethernet Interface	x1
USB	TypeA (USB2.0) x3
Backlight	LED
Storage Temperature	-20 to 60 °C (-4 to 140 °F)
Ambient Operatng Temp	0 to 50 °C (32 to 122 °F)
Environmental Ratings	IEC60529 IP65, UL50E Type 4X
Rated Input Voltage	24 Vdc
Power Consumption	31 W
External Dimensions	W402 x H301 x D74.7 mm (W15.82 x H11.85 x D2.94 in.)
Panel Cutout Dimentions	W383.5 x H282.5 mm (W15.10 x H11.12 in.)

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PS4700 (Z510) Panel PC

Product Options

Configure PS4700 (Z510)   Find Distributor

Front Bezel Material	Aluminum Stainless Steel
Expansion Slot	0 slot (Fixed)
CPU Type	Atom Z510 (Fixed)
Power Supply	DC DC with Noise filter for Marine Certification
RAM	1GB 2GB
Operating System	Windows Embedded Standard 2009
Storage Device	None CF 4GB
Slide-in Slot	0 slot (Fixed)
Options	None Ethernet Expansion Board

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PS4800 Panel PC

The PS4800 features a Core™2 Duo P8400 processor, creating a powerful system for any production floor. Its aluminum housing adds to the PC's durability, while its multiple I/O ports lend to its flexibility. These units provide more robust storage options, along with quick and easy storage expansion. The bright and crisp TFT color display is also complemented with different screen size options.
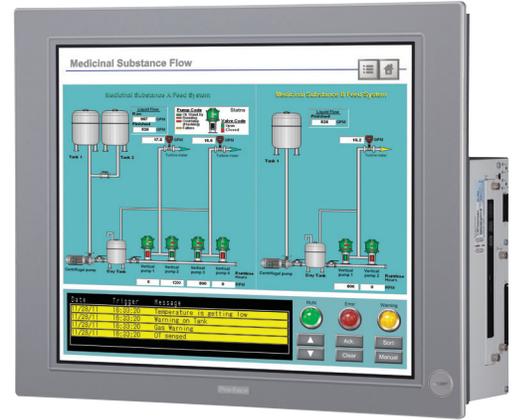
3D CAD

General Specifications

Models	PS4800 (Build to Order)
Operating System	Windows® XP Professional SP3, Windows® 7 Ultimate,
	Windows® Embedded Standard 2009, Windows® Embedded Standard 7
Display Type and Size	TFT Color LCD 19.1"
Graphic Display Resolution	1,280 x 1,024 pixels (SXGA)
Touch Panel Type	Analog resistive film
Serial Port (COM)	RS-232C x2
Ethernet Interface	x2
USB	TypeA (USB2.0) x5
Backlight	LED
Storage Temperature	-20 to 60 °C (-4 to 140 °F)
Ambient Operatng Temp	0 to 50 °C (32 to 122 °F)
Environmental Ratings	IEC60529 IP65, UL50E Type 4X
Rated Input Voltage	24Vdc or 100 to 240 Vac
Power Consumption	130 W (max.)
External Dimensions	Core™2 Duo: W480 x H380 x D175.2 mm (W18.90 x H14.96 x D6.893 in.)
	Atom™: W480 x H380 x D160 mm (W18.90 x H14.96 x D6.293 in.)
Panel Cutout Dimentions	W459.5 x H359.5 mm (W18.09 x H14.15 in.)

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PS4800 Panel PC

Product Options		Configure PS4800	Find Distributor

Expansion Slot	0 slot 1 slot = 1 PCI 2 slots = 1 PCI + 1 PCIe(x4) 2 slots = 2 PCI
CPU Type	Atom N270
	Core 2 Duo P8400
Power Supply	AC DC DC with I/F for UPS battery unit DC with Noise Filter for Marine Certification DC with I/F for UPS battery unit and Noise Filter for Marine Certification
RAM	1GB 2GB 3GB (2GB+1GB) 4GB (2GB+2GB) 6GB (4GB+2GB) 8GB (4GB+4GB)
Operating System	None Windows Embedded Standard 2009 Windows XP Pro Japanese Windows XP Pro MUI Windows Embedded Standard 7(32bit) Windows 7 Ultimate (32bit) Windows 7 Ultimate (64bit)
Storage Device	None CFast 4GB CFast 8GB SSD 80GB SSD 32GB SHD 250GB
Slide-in Slot	None DVD multi drive SSD 32GB SSD 80GB SHD 250GB
Options	None COM Expansion Board RS-232C/422/485

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FP5000 – Flat Panel Display

Description

Sharing the panel cut out dimension with the FP3000 Series, the FP5000 Series is the natural choice for upgrading your system. Automatic resolution and brightness adjustment eases upgrade and increase operation efficiency.

The FP5000 Series employs an analog resistive multi-touch touch panel that allows multi touch gestures even when wearing work gloves. Gesture operation greatly prevents unintended operation and the multi-touch panel film prevents display glass fragments from contaminating the processed goods, essential in the food and beverage industry.

In addition to cutting-edge functions such as gesture operation and a brightness sensor, the FP5000 Series provides a high level of environmental resistance with features like a maximum ambient operating temperature rating of 60°C and an IP67F protection rating that allows it to withstand washing with a high-pressure cleaner during hygienic maintenance of equipment.

Features

• Automatic resolution adjustment

• Supports operating systems from Windows XP to Windows 8.1

• 12Vdc battery operated devices and equipment

• Straight forward connectivity

• Front USB port for easy data export

Simple configuration of display and PC

• Easy installation with integrated mounting bracket and anti-drop lock

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FP5000 – Flat Panel Display

General Specifications

Backlight	White LED
Storage Temperature	-20 to 60 °C (-4 to 140 °F)
Ambient Operatng Temp	0 to 60 °C (32 to 140 °F)
Environmental Ratings	w/ factory-installed front USB cover: IP65F, IP67F, TYPE 1,
	w/ front USB cover as an option: IP66F, IP67F TYPE 1, TYPE 4X/13
Certifications	CE, UL Listed, RoHS

Product Specifications

Part Number to Order	PFXFP5600TPD	PFXFP5700TPD
Display Type and Size	12.1" TFT Color LCD	15" TFT Color LCD
Display Colors	16 million colors	16 million colors
Graphic Display Resolution	1,024 x 768 pixels (XGA)	1,024 x 768 pixels (XGA)
Display Area	W245.76 x H184.32 mm (W9.68 x H7.26 in.)	W304.1 x H228.1 mm (W11.97 x H8.98 in.)
Touch Panel Type	Resistive film (analog, multi-touch)	Resistive film (analog, multi-touch)
Brigntness Controls	0 to 100	0 to 100
USB (1)	USB2.0 (TYPE-B)	USB2.0 (TYPE-B)
USB (2)	USB2.0 (TYPE-A)	USB2.0 (TYPE-A)
Video Input Interface	DVI-D 24 pin (socket)	DVI-D 24 pin (socket)
Rated Input Voltage	12 to 24Vdc	12 to 24Vdc
Power Consumption	17 W (max.)	21 W (max.)
Panel Cutout Dimentions	W301.5 x H227.5 mm (W11.87 x H8.96 in.)	W383.5 x H282.5 mm (W15.1 x H11.12 in.)
External Dementions	W315 x H241 x D67 mm (W12.4 x H9.49 x D2.64 in.)	W397 x H296 x D67 mm (W15.6 x H11.7 x D2.64 in.)

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IPC Accessories

Storage Media

PFXZPSSCAD2	Adaptor to install a CFast card to Slide in Disk for PS-4600
PFXZCBCF41	CF Card 4GB
PFXZCBCF81	CF Card 8GB
PFXZCDSCCFA161	CFast Card, 16GB for PS-4600
PFXZCDSCCFA41	CFast Card, 4GB for PS-4600
PFXZCDSCCFA81	CFast Card, 8GB for PS-4600
PFXZPECF81	CF Card 8GB
PFXZPECFA162	CFast Card 16GB
PFXZPECFA82	CFast Card 8GB
PFXZPESSD161	SSD unit 160GB
PFXZPESSD81	SSD unit 80GB
PFXZPSD311	SO-DIM module DDR3 1GB for PS-4600
PFXZPSD321	SO-DIM module DDR3 2GB for PS-4600
PFXZPSD341	SO-DIM module DDR3 4GB for PS-4600
PFXZPSD381	SO-DIM module DDR3 8GB for PS-4600
PFXZPSSCHDD501	HDD Unit without OS, 500GB (for Slide in Disk)
PFXZPSSCHDD502	HDD Unit without OS, 500GB for PS-4600 (for Slide in Disk)
PFXZPSSCSSD122	SSD Unit without OS, 128GB for PS-4600 (for Slide in Disk)
PFXZPSSCSSD601	SSD Unit without OS, 60GB (for Slide in Disk)
PFXZPSSCSSD62	SSD Unit without OS, 60GB for PS-4600 (for Slide in Disk)
PFXZPSSSAD1	Adaptor to install an unit for Slide in Disk to Slide in Slot
PFXZPSSSAD2	Adaptor to install an unit for Slide in Disk to Slide in Slot for PS-4600

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IPC Accessories

Cables, Modules, Adapters,
Storage Media, Fastners, Gaskets

Storage Media

PFXZPSSSMD1	DVD multi drive (for Slide in Slot)
PFXZPSSSMD2	DVD multi drive for PS-4600 (for Slide in Slot)

Cables / Adapters

CA7-CBLCVDVI-D/RGB-01	A branch cable converting DVI-I to DVI-D and RGB (15cm)
CA5-USBEXT-01	Extension cable for attaching to USB port on front panel (1m)
CA7-CBLCVRGB-01	A cable converting DVI-I to RGB (5m)
FP-CV02-45	Analog RGB interface cable used to send the image signal to the monitor from the host. (Dsub15-pin Plug) (4.5m)
FP-DV01-50	Digital Visual Interface cable used to send the image signal to the monitor from the host. (DVI-D 24-pin plug) (5m)
FP-US00	USB interface cable (5m) used for touch panel data transmission between the host and the FP
FP61V-IS00-O	Serial interface cable (5m) used for touch panel data transmission between the host and the FP
PFXZPBCBDV101	DVI 10m cable for PS4000 series (10m)
PFXZPEAFDR1	DIN rail Adaptor for PE-4000B Atom N270
PFXZPEAFDR2	DIN rail Adaptor for PE-4000B Atom N2600
PFXZPECNHDDV1	A connector converting HDMI to DVI
PFXZPSCBUP3	UPS conneciton cable between UPS interface board and UPS battery unit for PS-4600 (3m)
PFXZPSCBUP32	UPS conneciton cable between UPS interface board and UPS battery unit for PS-4600 (3m)

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IPC Accessories

Expansion / Misc.

CA3-DFS15-01	Screen Protection Sheet for 15-inch (5 sheets/set)
CA7-DFS12-01	Screen Protection Sheet for 12-inch (5 sheets/set)
CA7-DFS19-01	Screen Protection Sheet for 19-inch (5 sheets/set)
PFXZCBCNDC1	Connector to connect DC power supply cables (5 pcs/set)
PFXZCDCVUS1	Front USB cover, corresponding to IP66F, IP67F, Type 1/4X Indoor Use Only/13 or ATEX certifications (5 pieces/set)
PFXZCDOP121	Environmental resistant cover for 12-inch display (1 piece)
PFXZCDOP151	Environmental resistant cover for 15-inch display (1 piece)
PFXZFTPNDC1	Noise filter for marine certification
PFXZPPCVUS2	Front USB cover for PS4000 series panel type (2 pcs) with hook
PFXZPSEUPCI11	1 slot Expansion Unit for PS-4600 (PCI x1 + Slide in Slot x1)
PFXZPSEUPCI21	2 slots Expansion Unit for PS-4600 (PCI x1 + PCIe x1 + Slide in Slot x1)
PFXZPSEUPCIA1	2 slots Expansion Unit for PS-4600 (PCI x2 + Slide in Slot x1)
PFXZPSEUPCIC1	1 slot Expansion Unit for PS-4600 (PCIe x1 + Slide in Slot x1)
PFXZPSEUUPB1	UPS battery unit
PFXZPSIUCMR42	COM Expansion Board for PS-4600 (Add 1ch for RS-232C/422/485)
PFXZPSIUSR2	SRAM 2MB Expansion Board for PS-4600
PFXZPSIUUPM2	UPS Interface Board for PS-4600

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Replacement Parts

Cables, Modules, Adapters,
Storage Media, Fastners, Gaskets

Fan

PFXZPB1FTFAN1	Replacement Fan filter for PS4000 series BOX type with 1 Slot (5 pcs=5 sets)
PFXZPB1IUFAN1	Replacement Fan kit for PS4000 series BOX type with 1 Slot (for 1 set)
PFXZPB2FTFAN1	Replacement Fan filter for PS4000 series BOX type with 2 Slots (5 pcs=5 sets)
PFXZPB2IUFAN1	Replacement Fan kit for PS4000 series BOX type with 2 Slots (for 1 set)
PFXZPB5FTFAN1	Replacement Fan filter for PS4000 series BOX type with 5 Slots (5 pcs=5 sets)
PFXZPB5IUFAN1	Replacement Fan kit for PS4000 series BOX type with 5 Slots (for 1 set)
PFXZPP0FTFAN1	Replacement Fan filter for PS4000 series panel type with 0/1 Slot (15 pcs=5 sets)
PFXZPP0IUFAN1	Replacement Fan kit for PS4000 series panel type with 0/1 Slot (3 pcs for 1 set
PFXZPP2FTFAN1	Replacement Fan filter for PS4000 series panel type with 2 Slots (15 pcs=5 sets)
PFXZPP2IUFAN1	Replacement Fan kit for PS4000 series panel type with 2 Slots (3 pcs for 1 set)
PFXZPPFTFAN2	Replacement Fan filter for PS-4600 (5 pcs)
PFXZPPIUFAN2	Replacement Fan kit for PS-4600

Misc.

PFXZPPAF18P1	Used to install PS4000 series panel type into a solid panel (18pcs)
PFXZPTWG151	Provides dust and moisture resistance when PS4000 series panel type is installed into a solid panel (1 piece)
PFXZCBCNDC2	Right-angle connector to connect DC power supply cables (5 pcs/set)
PFXZCDWG121	Provides dust and moisture resistance when this product is installed into a solid panel (1 piece)
PFXZCDWG151	Provides dust and moisture resistance when this product is installed into a solid panel (1 piece)
PFXZFP5000USCLB1	Clamp to prevent disconnection of USB cable (USB/Type B, 1 port, 5 clamps/set).
PFXZPECNDC1	DC power supply connector for N270 (5 pcs)
PFXZPECNDC2	DC power supply connector for N2600 (5 pcs)

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Replacement Parts

Fan

PFXZPECNDIO1	DIO Connector (5pcs)
PFXZPPAF10P2	Used to install PS-4600 into a solid panel (10 pcs)
PFXZPPCVUS1	Front USB cover for PS4000 series panel type (2 pcs)
PFXZPSBTLT1	Lithium battery for replacement (for BIOS backup)
PFXZPSCNAC1	AC power supply connector (Screw type 5pcs)
PFXZPSCNAC2	AC power supply connector (5 pcs)
PFXZPSCNDC1	DC power supply connector (Screw type 5pcs)
PFXZPTAF14P1	Used to install PS4000 series panel type (Stainless Steel Bezel) into a solid panel (14pcs)