Basic HMI

Advanced HMI

Industrial PC

Outdoor HMI

Pro-face Product Guide 2021
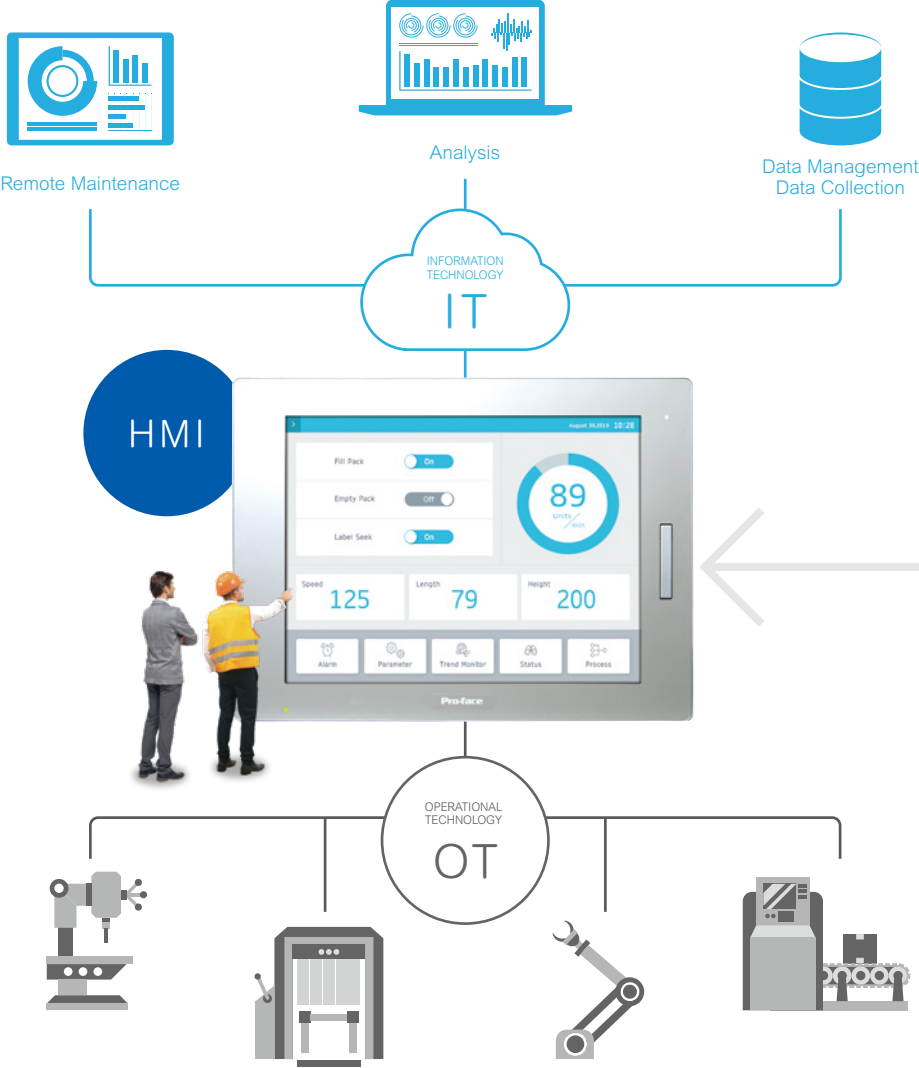
Find the best HMI from our wide range of products

proface.com

Pro-face™

by **Schneider** Electric

Pro-face Brand Concept

Remote Maintenance

Analysis

Data Management
Data Collection

INFORMATION
TECHNOLOGY

IT

HMI

Fill Pack   On

Empty Pack   Off

Label Seek   On

89
units/min

Speed
125

Length
79

Height
200

Alarm   Parameter   Trend Monitor   Status   Process

Pro-face

OPERATIONAL
TECHNOLOGY

OT

HMI Centric

HMI is a window to people and machines that lets everyone from operators to managers access the information they need in the format they desire from any device or network.
HMI Centric Solutions make the best of the human workforce with the digital technology.

How to empower workforce with HMI Centric concept?

An HMI Centric concept is actually a kind of industrial IoT solution, in which we make the best of the human workforce and we take the best leverage of the new digital technology.

High Flexibility

Open Connectivity meets flexibly various needs

OT / IT Connectivity

Connect directly to a wide range of devices and networks with various vendors.
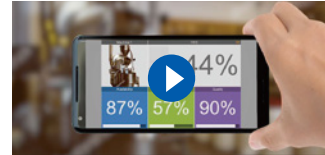
Offer Scalable and Customizable

A wide range of product lineup including modern technologies to meet the specific needs of various customers.

Collaborative System

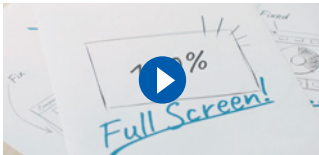Ready-to-use embedded HMI service to access machines remotely and securely.

Simple Visibility

Empowered human workforce

Intuitive Layout Design

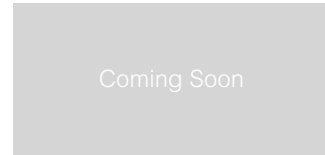Everyone easily operate and access precise information in a fast HMI design.

Increasing Information Value

Rich and expressive interfaces and intuitive operation in a large amount of data to utilize easily.

Modern Visualization

Supported by high-resolution graphics and tablet style displays with smooth response which Millennials favor.
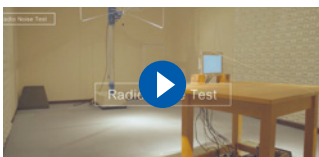
Coming Soon

Strong Reliability

Peace of mind on your site

Robust and cyber secure Solutions

Based on quality best practice since the world's first HMI (GP Series) was first developed in 1989.
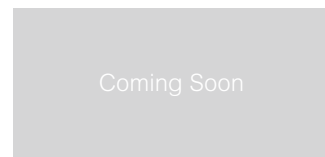
Global Availability / Support / Training

HMI Specialist service & support delivering certainty around the world.

Effortless migration to innovations

Special care to migrate our instrument to our new concept and to our new innovations.

Coming Soon

HMI Centric Architecture

TESTED VALIDATED *HMI Centric Architecture*

HMI Centric Architecture, the solution to problems associated with designing and developing your equipment and facilities. Get started quickly by combining validated equipment with Pro-face HMI!

High Flexibility Collaborative System

HMI with WiFi router + Smartphone

You can easily start secure remote maintenance over 3G/4G using your smartphone as an access point, even in environments where a network cannot be built or the end user's on-site network is not available.

Simple Visibility Increasing Information Value

HMI with Network camera

Network cameras are attracting a lot of attention as a tool for site improvement, especially in large equipment and multifunctional machines. By capturing scenes that are not noticeable to the naked eye or the cause of errors that cannot be determined by data analysis alone, you will be able to reliably uncover facts that were previously unknown to you.

Simple Visibility Increasing Information Value

BOX HMI with QR Code for mobile HMI operation

Using BOX HMIs and tablets saves space and reduces costs for efficient maintenance improvements on site. With Pro-face connectivity, you can monitor the information of various equipment on your tablet. It is possible to visually check the specific location of the equipment while using the tablet, enabling you to deal with errors reliably. Also, by using a QR code, you can quickly and reliably access the equipment.

Strong Reliability Robust and cyber secure Solutions

HMI with ID Card (NFC) reader

Security measures can be easily implemented by utilizing HMI to manage the operations of equipment and facilities that are operated by multiple operators or that have special processes.

Simple Visibility Increasing Information Value

Robot HMI

In the past, a robot technician had to use a special teaching pendant to determine the state of the robot and restore it when an error occurred. However, with dedicated sample screen is available to check the status of the robot on HMI. Robot HMI makes it easy for anyone to determine the status of the robot.

HMI Centric Customer Story

Pro-face HMI is indispensable for next-generation machines; Special vehicles that operate outdoors.

In this interview, by adopting SP5000X, Kawasaki Kiko Co., Ltd.,(link is external) a comprehensive manufacturer of tea production and harvesting machines with the top market share in this field successfully implemented a next-generation project. The project has competed in a single year instead of the expected two to three years. The company continues to make the utmost efforts to provide more delicious tea to people around the world.

Customer Story Key Figures

High Flexibility	Simple Visibility	Strong Reliability
Development time	Operability	Maintainance time
75%Down	200%UP	30%Down
Usual 3-year development time was reduced by 75% to around 1 year.	Operability improved by 200% by using a bright display and remote monitoring.	Maintenance efficiency increased by 30% through HMI specialist support.

Why we chose the SP5000X

An essential factor was **outdoor visibility**. When we borrowed a sample unit, we realized the visibility was excellent. We found that the high brightness and **resolution** of Pro-face HMI could display the **necessary information** even on small screens in the **outdoor** situation. Another reason we chose the SP5000X was that it supports CAN communication (**J1939**), which is a significant advantage. We needed it to connect ECUs with the HMI. That supports as an option. Furthermore, the power supply specification is compatible with **12V**. These three big points pretty much convinced us. One more surprisingly important point was **sales** and **support**. When we asked them for certain features, they **quickly responded** with excellent **suggestions**. We received

substantial support and feel confident we can produce extremely **reliable**, productive machines when working with Pro-face. Pro-face HMI allowed our engineers to imagine how our customers will use the system. Details about how to do this and how to do that became much clearer. It may have been the most significant reason all for choosing the SP5000X.
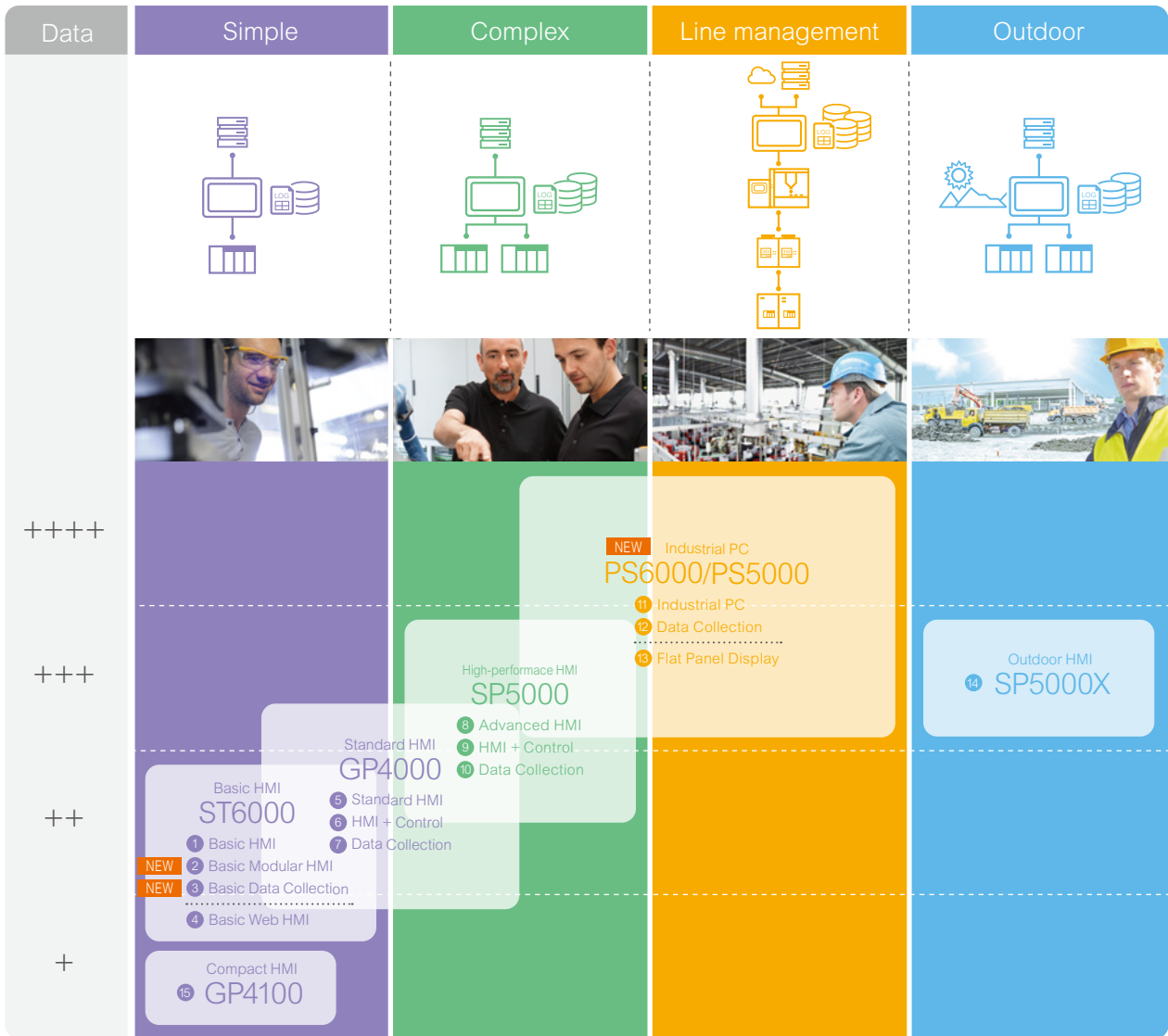
Effects and benefits

The SP5000X mainly serves as an **interface** for setting parameters. However, it is also an essential device for **data management** and connecting to the **cloud**. Since all information about the machine can display on the SP5000X, the HMI should be considered the machine's **central** device. It is no exaggeration to say HMI is most **essential** for the new generation machine. By connecting the HMI with cloud service, we did not have to develop **IoT**-related elements. It significantly accelerated development and was an advantage that allowed us to complete the project from scratch in as little as a year. By collecting and analyzing accurate information from the KJM6 passenger-type multi-purpose management machine, which plows and fertilizes fields, it became possible to distribute fertilizer based on the rate of **operating correctly**. When applied to pest control, the system also makes it possible to reduce the use of pesticides in fields. Now amounts of pesticide fix in most of the area. However, we expect more appropriate measures of pesticide in each area based on **optimized management**, harvesting, and pest data.

Pro-face Product Overview

Data	Simple	Complex	Line management	Outdoor

++++

NEW   Industrial PC
PS6000/PS5000
- ⑪ Industrial PC
- ⑫ Data Collection
- ⑬ Flat Panel Display

+++

High-performace HMI
SP5000
- ⑧ Advanced HMI
- ⑨ HMI + Control
- ⑩ Data Collection

Outdoor HMI
⑭ SP5000X

Standard HMI
GP4000

++

Basic HMI
ST6000
- ⑤ Standard HMI
- ⑥ HMI + Control
- ⑦ Data Collection
- ① Basic HMI
- NEW ② Basic Modular HMI
- NEW ③ Basic Data Collection
- ④ Basic Web HMI

+

Compact HMI
⑮ GP4100

ST6000 Series   BLUE   VERSION UP   GP-Pro EX   VERSION UP

- ① Basic HMI (ST6000)
- ② Modular HMI (STM6000)
- ③ Data Collection (STM6000 Gateway)
- ④ Web HMI (STW6000)

GP4000 Series   GP-Pro EX   VERSION UP

- ⑤ Standard HMI (GP4000)
- ⑥ HMI + Control (LT4000M)
- ⑦ Data Collection (LT4000M)

SP5000 Series   GP-Pro EX   VERSION UP

- ⑧ Advanced HMI (SP5000)
- ⑨ HMI + Control (SP5000+option)
- ⑩ Data Collection (SP5000+option)

PS6000/PS5000 Series   BLUE Line Management Lite SCADA Open Studio   VERSION UP

- ⑪ Industrial PC (PS6000 / PS5000)
- ⑫ Data Collection (PS6000/PS5000)
- ⑬ Flat Panel Display
  (FP5000 / SP5000 + option / PS5000 + option)

SP5000X Series   GP-Pro EX   VERSION UP

- ⑭ Outdoor HMI (SP5000X)

GP4100 Series   GP-Pro EX   VERSION UP

- ⑮ Compact HMI (GP4100)

Specification		Simple			Complex	Line management	Outdoor
		GP4100	ST6000	GP4000	SP5000	NEW PS6000/PS5000	SP5000X
Software		GP-Pro EX	BLUE / NEW GP-Pro EX	GP-Pro EX	GP-Pro EX	BLUE Open Studio	GP-Pro EX
Related Software / License	Remote Monitoring	Pro-face Remote HMI	NEW Web Viewer License	Pro-face Remote HMI	Pro-face Remote HMI	Thin Client License	Pro-face Remote HMI
	Remote connection service	No	Pro-face Connect*2	Pro-face Connect	Pro-face Connect	Pro-face Connect	Pro-face Connect
Visualization	Size	4"w	4"w, 7"w, 10"w, 12"w, 15"w	3.5", 5.7", 7.5", 10.4", 12.1" 7"w	10", 12", 15" 7"w, 10"w, 12"w, 15"w, 19"w	12", 15" 10"w, 12"w, 15"w, 19"w, 22"w	7"w, 12"w, 15"w
	Display quality (Resolution, color)	++	++	+	++	+++	+++++ (Sunlight readable)
	Performance	Standard	Standard	Standard	High	High	High
Operation	Touch operation	+	+	+	++	+++	+
Connectivity	IT (Ethernet)	0 or 1	2 (4"w:1)	1	2	2	2
	OT (Serial, USB, Fieldbus)	+	++	++	+++	+++	+++
	I/O	No	No	Yes (Only LT4000M)	Yes (Only SP-5B10 + option)	Yes (Option)	Yes (Option)
	Data backup operation	+	+	++	++	+++	++
Data handling	Storage	0	Local Storage (Only BLUE)	0 or SD x 1	SD x 1 or SD x 2	HDD/SSD x 1	SD x 2
Environment	Environment resistance	+	+	+	++	+	+++
	Certification (Haz Loc, ATEX, Marine)	+++	+	+++	+++	++	++
Features	Integrate Windows Apps	No	No	No	Yes (Only SP-5B41)	Yes	No
	IT connection (OPC, MQTT, Email, etc)	+	+++	++	++	++++	++

*1 GP-Pro EX will be supported in 2021.

website

video

manual

configurator

CAD

software

Industrial PC NEW

PS6000 Series

BLUE Line Management Lite SCADA
Open Studio

Improve your productivity with the most reliable
PC-based architecture experience.

New PS6000 from the HMI leader: Robust as a terminal,
Open and High-performant as a PC, even more economical.

New Experience

01 New Experience for Automation Engineers

A rich modular catalog
and a strong background
of customization service.

To run any software,
including pre-installed bundles.

Easily selected with
new Product Configurator
and with quick delivery.

⚙ Software

BLUE Line Management Lite SCADA
Open Studio

Pro-face Connect
Secure Remote Access over Internet

EcoStruxure
Schneider Electric

Java	.NET	C++
Raid	Thin client	Security
MS Office	etc.	

COST DOWN

TIME SAVE

QUICK DELIVERY

BOX

Advanced Box
- Core i7
- Core i5
- Celeron

Standard Box
- Core i3

Display

Resistive multi touch
- 12"
- 15"

4:3

Capacitive multi touch
- 15"wide
- 19"wide

wide

Options

| HDD/SSD | Interfaces | PCI/PCIe |
| Slot-in design | Slot-in design | Slots module |

02 A new Experience for Operators and Production Managers

High-performance with
the latest CPU and
Innovative display
for smart manufacturing.

To run securely,
on most demanding
industrial environments.

Standard mode

Glove mode

Water Detection mode

Quickly change display type
for operators situation
with configuration.

PDF   recipe

BLUE Line Management Lite SCADA
Open Studio

03 A new Experience for Maintenance Specialists

Smart maintenance to reduce
downtime and improve productivity.

Long Term Peace of Mind
thanks to long availability,
global support and training.

Long Availability

Quick Response

Special Support

Quick Deliver

Box module

	Advanced Box			Standard Box
CPU	Core i7	Core i5	Celeron	Core i3
Core	4		2	2
Thread	8		2	4
Graphics accelerator	Intel UHD Graphics 620		Intel UHD Graphics 610	Intel UHD Graphics 620
DIMM	8 - 32GB		4 - 16GB	8 - 32GB
Storage	M.2 SSD x 1 2.5" HDD / SSD x 2			M.2 SSD x 1 2.5" HDD / SSD x 1
USB	USB TypeA : USB2.0 x 2, USB3.0 x 2 USB TypeC : USB3.0 x 1 (DP connection)			
Ethernet	IEEE1588 x 2 10 / 100 / 1000 Wake-on-LAN (WOL)			
Serial	RS-232C x 1 (not isolated)			
Display Port	DP x 1			
Slot-in Option I/F	2 slots			1 slot
Expansion slots	PCI x 1 + PCIe x 1 or PCIe x 2 or PCI x 2			-
Operating System	Windows10 IoT Enterprise 2019 LTSC (64bit)			
Certification	CE, UL and cUL, RMC, KC, EAC, ATEX / IECEx*, DNV-GL*1, RoHS, WEEE			

Display module

	12"	15"	15"W	19"W
Display Size	12"	15"	15"W	19"W
Resolution	XGA (1,024 x 768)		FWXGA (1,366 x 768)	Full HD (1,920 x 1,080)
Display Type	TFT Color LCD			
Touch Panel Type	Resistive multi-touch (2 points)		Capacitive Multi-touch (2 points) with optimized noise filer	
Touch Mode Configuration	Not applicable,because of a resistive analog touch panel		Yes-Standard mode-Glove mode,-Water detection mode	
Front USB	USB (Type A) x 1*2		-	

*1 IECEx / ATEX will be supported on Dec, 2021 *2 By default, the USB is disabled

Dimension: PFXDM6800WC + Advanced BOX + Expansion slot + Fan
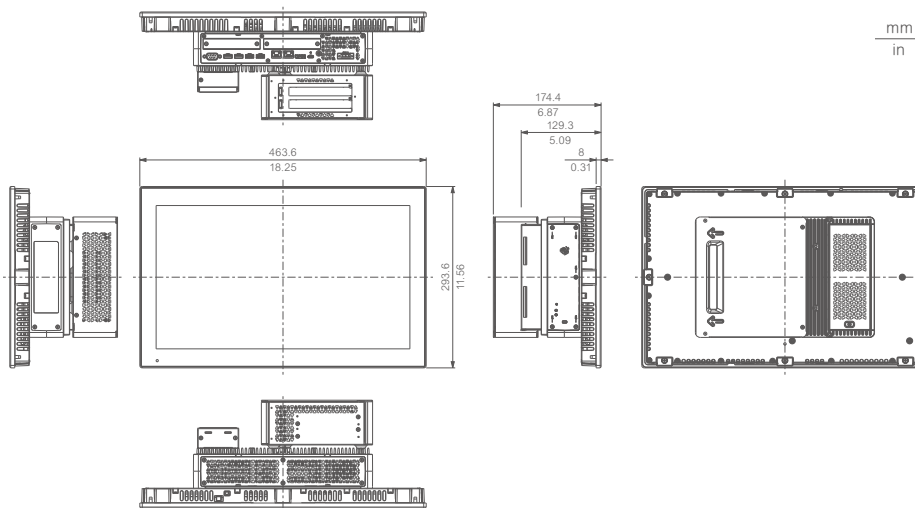
PS5000 Series

Combine the box type and the display in a range of sizes from 12 to the ultra-large 22 inches.
Flexibily change the functions and sizes. The box is a stand-alone component and can be connected to various displays.

Display Module

	PS-5900W	PS-5800W	PS-5700W	PS-5600W	PS-5700T	PS-5600T
Display Size	22"wide	19"wide	15"wide	12"wide	15"	12"
Rated Input Voltage	100...240Vac / 24 Vdc					
Resolution	1,920 x 1,080pixels (Full HD)	1,366 x 768pixels (FWXGA)		1,280 x 800pixels (WXGA)	1,024 x 768pixels (XGA)	
Touch Panel Type	Capacitive (5 simultaneous touch)				Resistive Film (single touch)	
Structure	IP66					

Box Module

	PS-5001B		
Model	Atom		Atom (Entry)
CPU	Atom E3930 1.3 GHz		
Storage memory	M.2 SSD (64GB / 128GB / 256GB)	M.2 SSD (64 GB / 128 GB / 256 GB) or HDD *1 (500 GB / 1 TB) SSD *2 (256 GB)	eMMC (64 GB / 128 GB)
Main Memory	4 GB or 8 GB, DDR3		4 GB, DDR3L
Rated Input Voltage	12...24 Vdc		
OS	Win10 IoT Enterprise (64bit)		
Interface	RS-232C x 1, RS-232C / 422 / 485 x 1, Ethernet x 2, USB (Type A) x 4, Display Port x 2		RS-232C x 1, RS-232C / 422 / 485 x 1, Ethernet x 2, USB (Type A) x 2, Display Port x 1
Optional interface	None	x 1	x 1
Expansion Slot	0 slot		

*1 For secondary storage only.

website

video

manual

datasheet

CAD

software

Advanced HMI

SP5000 Series

GP-Pro EX

Flagship model achieving high performance and robust network security

The SP5000 series is an HMI that provides information quickly and efficiently, and promotes "smartification" of your factories.

Flagship

01 Manage more information in various forms

Fully compatible for direct use with Windows applications, the SP5000 can handle materials, such as manuals and error codes, without conversion.

No need to bring PC for debugging and JOB reprogramming.

MS Excel

PDFs

Movies

Ladder programming tools

Able to use ladder programming tools...

02 Simple activation by inserting cards

Display data is scalable to fit multiple sizes of monitors, which can be applied to new equipment for mass production. There is no need for on-site data transfer because SP5000 models are activated when the SD card is inserted.

This is a time-efficient way to carry out on-site troubleshooting.

15" 12" 10"

Auto -scaling

SP5000 works simply by replacing the card.

03 Network segmentation

All displays of SP5000 series have two Ethernet I/F ports as standard. The IP address is changed on the SP5000 at delivery.

Only the IP LAN2 address within the office network is changed.

10.181.1.1

LAN2 : 10.181.1.2
LAN1 : 192.168.0.1

192.168.0.2   192.168.0.3
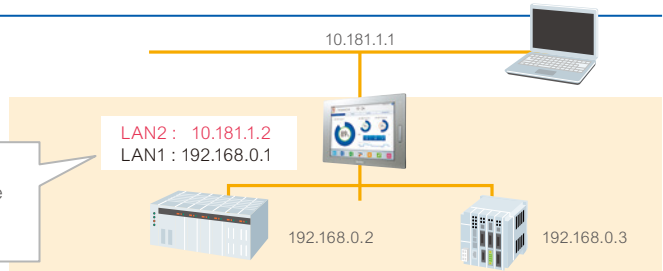
And more...

Cost Reduction and Equipment Improvement with I/O expansion

Using the option unit allows you to connect equipment that requires simple control + HMI, additional I/O expansion and remote I/O expansion.
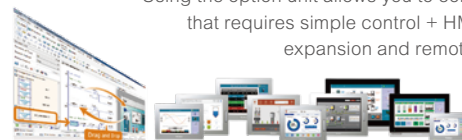
Premium Display						
	SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP
Model	PFXSP5800WCD	PFXSP5700WCD	PFXSP5700TPD	PFXSP5660TPD	PFXSP5600TPD	PFXSP5500TPD
Display Size	19" wide	15" wide	15"	12"		10"
Rated Input Voltage	12...24 Vdc					
Resolution	1,366 x 768 pixels (FWXGA)		1,024 x 768 pixels (XGA)			800 x 600 pixels (SVGA)
Touch Panel Type	Projected Capacitive (5 points multi-touch)		Resistive Film (analog, 2 points multi-touch)			
Interface	USB (Type A) x 1 USB (mini B) x 1					
Structure	IP65F, IP67F					
External Dimensions*1	W483 x H337 x D69mm (W19.02 x H13.27 x D2.72 in.)	W414 x H295 x D69mm (W16.30 x H11.61 x D2.72 in.)	W397 x H296 x D67mm (W15.6 x H11.7 x D2.64 in.)	W315 x H241 x D67mm (W12.4 x H9.49 x D2.64 in.)		W272.5 x H214.5 x D67mm (W10.73 x H8.44 x D2.64 in.)
Panel Cut Dimensions	W465 x H319mm (W18.31 x H12.56 in.)	W396 x H277mm (W15.59 x H10.91 in.)	W383.5 x H282.5mm (W15.1 x H11.12 in.)	W301.5 x H227.5mm (W11.87 x H8.96 in.)		W259 x H201mm (W10.2 x H7.91 in.)
Others	Brightness Sensor, Auto Scaling					
Custom (Coating)	-		Yes			
Custom (Front Color Bezel)	-		Yes			
Certifiation	CE, UL / cUL, UL / cUL for Haz Loc, RCM, KC, EAC, RoHS, WEEE					

*1 The depth is combined with Box Module

Advanced Display				
	SP-5600TA	SP-5600WA	SP-5500WA	SP-5400WA
Model	PFXSP5600TAD	PFXSP5600WAD	PFXSP5500WAD	PFXSP5400WAD
Display Size	12"	12" wide	10" wide	7" wide
Rated Input Voltage	12...24 Vdc			
Resolution	1,024 x 768 pixels (XGA)	1,280 x 800 pixels (WXGA)		800 x 480 pixels (WVGA)
Touch Panel Type	Resistive Film (analog)			
Interface	-			
Structure	IP66F, IP67F, TYPE 4X (Indoor Use Only) / 13			
External Dimensions*1	W315 x H241 x D67 mm (W12.4 x H9.49 x D2.64 in.)	W308.5 x H230.5 x D67mm (W12.15 x H9.07 x D2.64 in.)	W268.5 x H198.5 x D67mm (W10.57 x H7.81 x D2.64 in.)	W203.6 x H148.6 x D67mm (W8.02 x H5.85 x D1.42 in.)
Panel Cut Dimensions	W301.5 x H227.5mm (W11.87 x H8.96 in.)	W295 x H217mm (W11.61 x H8.54 in.)	W255 x H185mm (W10.04 x H7.28 in.)	W190 x H135mm (W7.48 x H5.31in.)
Others	-			
Custom (Coating)	Yes			
Custom (Front Color Bezel)	Yes			

*1 The depth is combined with Box Module

3 types of Box Modules			
	SP-5B41	SP-5B10	SP-5B00
Model	PFXSP5B41	PFXSP5B10	PFXSP5B00
Application Memory	Screen Size: 64 MB		
Backup Memory	NVRAM 320KB		
Interface	RS-232C / 422 / 485 x 2 Ethernet x 2 USB (Type A) x 3, USB (mini B) x 1 SD Card Slot (Storage) x 1 CFast Card Slot (System) x 1 CFast Card Slot (Storage) x 1 DVI-D output x 1 Sound Input: MIC or LINE input x 1 Speaker Output x 1 Alarm Output or Buzzer Output x 1	RS-232C / 422 / 485 x 2 Ethernet x 2 USB (Type A) x 2, USB (mini B) x 1 SD Card Slot (System) x 1 SD Card Slot (Storage) x 1 Speaker Output x 1 Alarm Output or Buzzer Output x 1	RS-232Cx 1 RS-422 / 485 x 1 Ethernet x 2 USB (Type A) x 2, USB (mini B) x 1 SD Card Slot (Storage) x 1
Windows Application	Yes	-	-
Expansion Unit	-	Yes	-
Connectable Devices	4		
Custom (Coating)	Yes		

Dimension: SP-5600TP + SP-5B00

mm
in

67
2.64

6.7
0.26

315
12.40

241
9.49
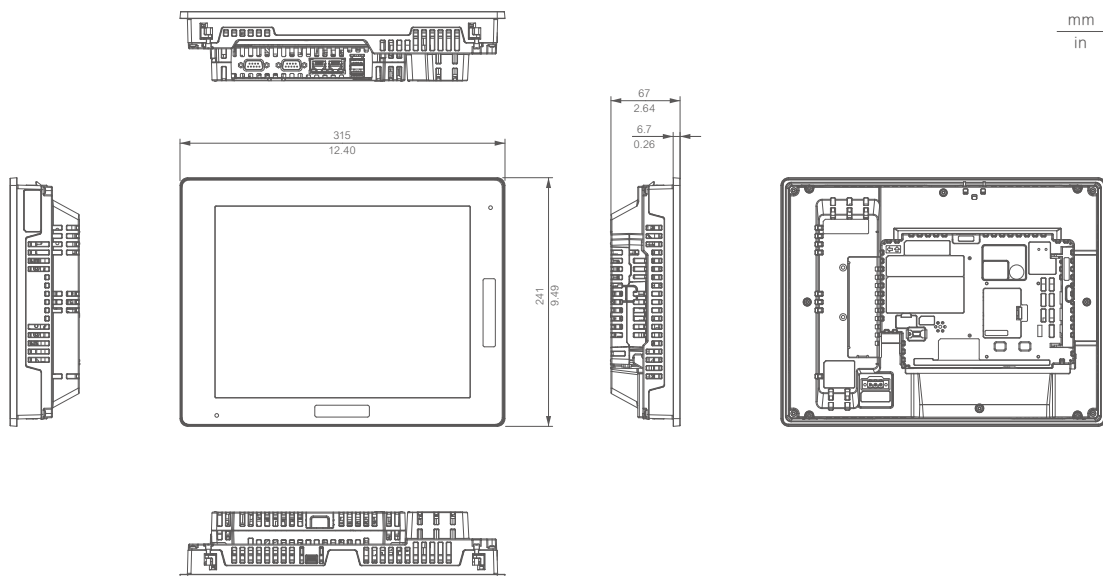
Outdoor HMI

SP5000X Series *GP-Pro EX*

An outdoor HMI that is visible under sunlight, and resists extreme environment

We have created a sunlight readable screen that is resistant to direct sunlight and extreme temperatures. With an enhanced information display unit and improved operability, this product is suitable for multiple applications under harsh environmental conditions including use in special purpose vehicles such as firetrucks and construction equipment; parking lots and gas stations; and the oil and gas industry.

Extreme

01 Sunlight Readable

No Plastic overlay

Anti-glare

Glass touch sheets

High brightness liquid crystal panel

High brightness liquid crystal panel
High brightness liquid crystal panel (1000cd/m²)

Anti-reflection (Anti-glare)
Improve visibility in sunlight by decreasing glare.

High-transmittance design
The liquid crystal display uses a glass touchscreen to improve transmissivity.

02 Robustness

Cut UV rays by 99% (380nm)

UV Protection
Improve UV protection and prevent deterioration by replacing plastic components that are exposed to sunlight with metal or glass.

Improve longevity

Full Coating
Improve the longevity of the product even when used in outdoor environments with dust and extreme temperatures by adding coating on the substrate, LCD, and power source components.

03 Environmental Resistance

2G   40G

Sufficient against Vibration/Shock
We do apply IEC60068-2-6 or IEC60068-2-27 in stead of IEC61131-2 test which is typically used for factory automation devices.Because they are more suitable for earth moving machines, or generators or compressors which use engines to operate machines.

* Display Module : 7"w and 12"w: 2G / 40G, 15"w: 1G / 15G
  Box Module : follow the connected Display Module.

-30°C   70°C

Operating temperature: -30°C to 70°C
Can be used in harsher environments without the need for anti-frost heaters or fans and cooling systems.

* Display Module : 7"w: -30 to 65°c, 12"w: -30 to 70°c, 15"w: -20to 60°c
  Box Module : follow the connected Display Module.

UL 50E Type 4X Outdoor use

Dust and waterproof
Compatible with IP66F, IP67F, Type 4X (indoor and outdoor use) allowing for use in harsh outdoor conditions.

Hardware

11

04 Maintainability
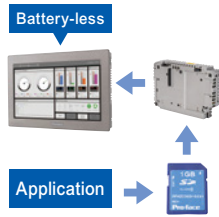
Modular structure that is easy to maintain

It is possible to replace the exposed display without changing the whole unit. The box is designed with the application pre-installed and can be used immediately upon changing components. Changes can be made quickly and easily without the need of a PC, optimizing time and resources.

Battery-less

Application

05 IoT Solution

## Data collection and remote maintenance

Collect data remotely from a PC such as error history and operation status, outcome, and history. It is also possible to access the HMI, verify the operation status, and conduct maintenance remotely via PC or tablet.

Display Module			
	SP-5790WA	SP-5690WA	SP-5490WA
Model	PFXSP5790WA / PFXSP5790WADF0H	PFXSP5690WA / PFXSP5690WADF0H	PFXSP5490WA / PFXSP5490WADF0H
Display type	TFT Color LCD (High brightness)		
Display size	15.6" wide	12.1" wide	7" wide
Resolution	1,366 x 768 pixels (FWXGA)	1,280 x 800 pixels (WXGA)	800 x 480 pixels (WVGA)
Display colors	262,144 colors		
Backlight	White LED (Not user replaceable. When replacement is required, contact customer support.)		
Touchpanel lifetime	1,000,000 times or more		
Rated input voltage	12...24 Vdc		
Power consumption	Max. 48 W	Max. 37 W	Max. 29 W
Ambient air temperature	-20 to 60 °C (-4 to 140 °F)	-30 to 70 °C (-22 to 158 °F)	-30 to 65 °C (-22 to 149 °F)
Dust	0.1 mg/m^3 (10^{-7} oz/ft^3) or less (non-conductive levels)		
Pollution degree	3 for front face, 2 for other sides		
Corrosive gases	Free of corrosive gases Harsh environment model (Model numbers ending with ""F0H"") : IEC/EN 60721-3-3 Class 3C3		
Atmospheric pressure (operating altitude)	800 to 1,114 hPa (2,000 m [6,561 ft] or lower)		
UV resistance (front side)	Cutoff: 99% or more (380 nm)		
Vibration resistance	IEC 60068-2-6 compliant 5 to 9 Hz Single amplitude 3.5 mm (0.14 in) 9 to 150 Hz Fixed acceleration: 9.8 m/s^2 X, Y, Z directions for 10 cycles (approximately 100 minutes) IEC 61373: 1999 (Category 1, Class B) 5≤f≤150 Hz (weight < 500 kg: f1=5 Hz, f2=150 Hz) acceleration: Up and down: 7.90 m/s^2, Right and left: 3.50 m/s^2, Back and forward: 5.50 m/s^2	IEC 60068-2-6 compliant 5 to 9 Hz Single amplitude 7 mm (0.28 in) 9 to 150 Hz Fixed acceleration: 19.6 m/s^2 X, Y, Z directions for 10 cycles (approximately 100 minutes) IEC 61373: 1999 (Category 1, Class B) 5≤f≤150 Hz (weight < 500 kg: f1=5 Hz, f2=150 Hz) acceleration: Up and down: 7.90 m/s^2, Right and left: 3.50 m/s^2, Back and forward: 5.50 m/s^2	
Shock resistance	IEC 60068-2-27 compliant 147 m/s^2, 11 ms, X, Y, Z directions for 3 times	IEC 60068-2-27 compliant 392 m/s^2, 11 ms, X, Y, Z directions for 3 times	
Electronic fast / transient / burst immunity	IEC 61000-4-4 / 2 kV: Power port / 1 kV: Signal ports		
Electrostatic discharge immunity	Contact discharge method: 6 kV Air discharge method: 8 kV (IEC/EN 61000-4-2 Level 3)		
Structure	IP66F, IP67F, Type 4X (indoor and outdoor use), Type 12, Type13		
External dimensions	408 x 264 x 68 mm (16.06 x 10.39 x 2.68 in)	308.5 x 230.5 x 68 mm (12.15 x 9.07 x 2.68 in)	203.6 x 148.6 x 37 mm (8.02 x 5.85 x 1.45 in)
Front bezel materials	Aluminum die-cast / Stainless steel		
Certifiation	CE, UL/cUL, UL/cUL for Haz Loc, RCM, KC, EAC, IECEx / ATEX*1, RoHS, WEEE		

Box Module	
	SP-5B90
Model	PFXSP5B90 / PFXSP5B90F0H
Application Memory	Screen Size: 64 MB
Backup Memory	NVRAM 320KB
Interface	RS-232C / 422 / 485 x 2, Ethernet x 2, USB (Type A) x 2, USB (mini B) x 1, SD Card Slot (System) x 1, SD Card Slot (Storage) x 1, Speaker Output x 1, Alarm Output or Buzzer Output x 1
Expansion unit	Fieldbus Unit x 1 (PROFIBUS / J1939 / CANopen / FLEX NETWORK)
Connectable Devices	4

*1 IECEx / ATEX will be supported in 2021

Dimension: SP-5690WA + SP-5B90

mm
in

308.5
12.15

68
2.68
7.7
0.3

230.5
9.07
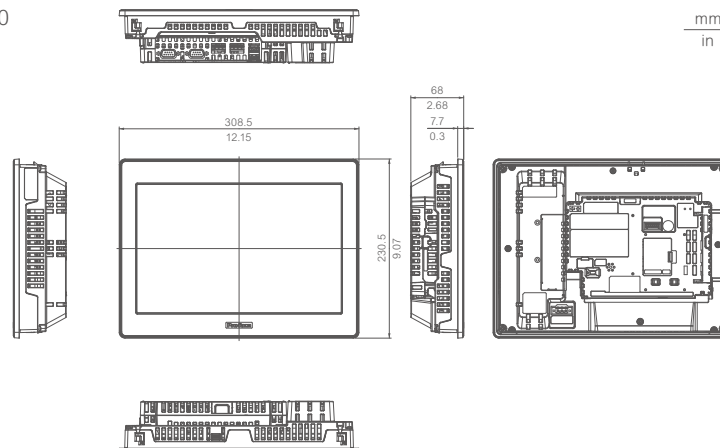
Basic HMI

ST6000 Series

BLUE **NEW** GP-Pro EX

Achieve a high level of visualization with the new basic HMI

The ST6000 series brings a new level of visualization to the Basic HMI market which no other basic product has accomplished.

New Visualization

01 Refined

An innovative HMI with a sophisticated design that transforms simple machines.

16 Million Colors

Achieve the previously unimaginable and bring displays to life with 16 million colors.
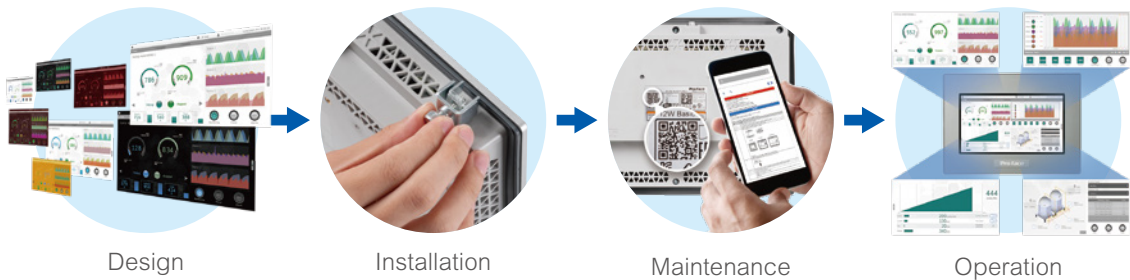
Better Graphics and Font

Display beautiful fonts with anti-aliasing. Customize gradation and transparency to meet your needs.

02 Simple & Easy

The simple design and interface help increase productivity and efficiency.

Design   Installation   Maintenance   Operation

NEW

Same application

Easy Migration

Use the same application(GP-Pro EX) and leverageexisting assets.
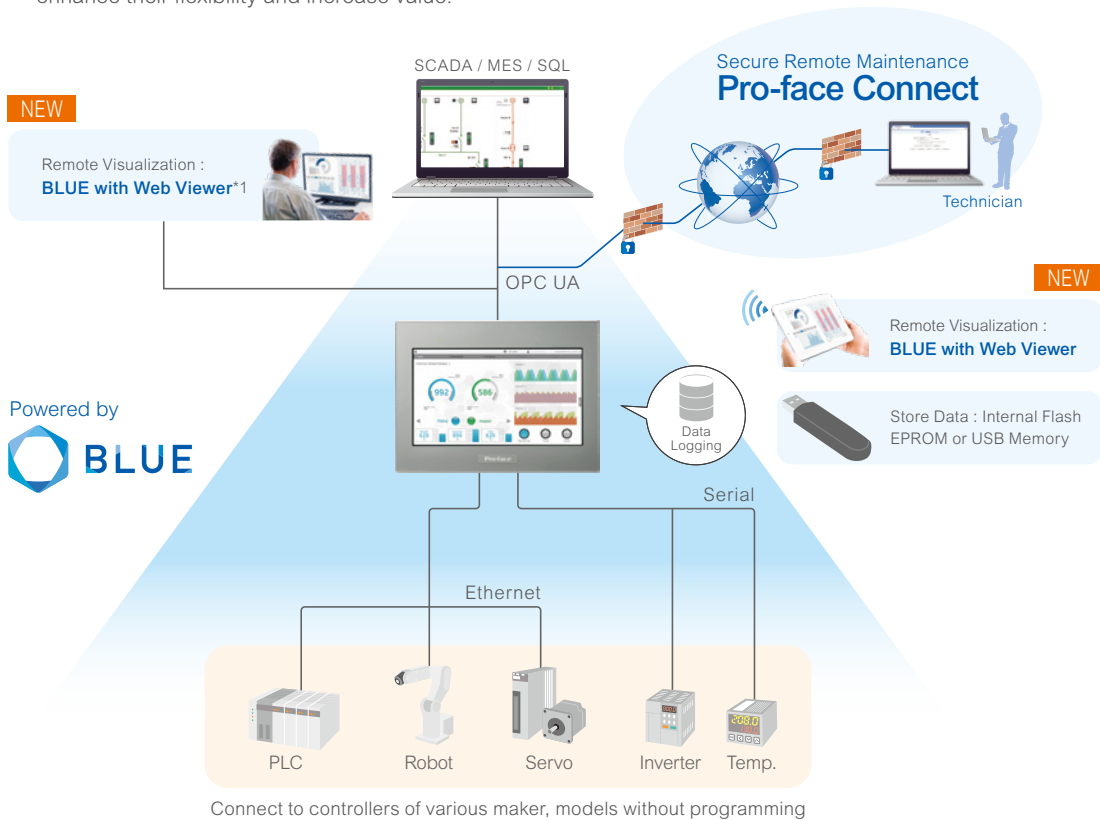
GP-Pro EX

GP4000W model(4:3, Wide)   ST6000(Wide)
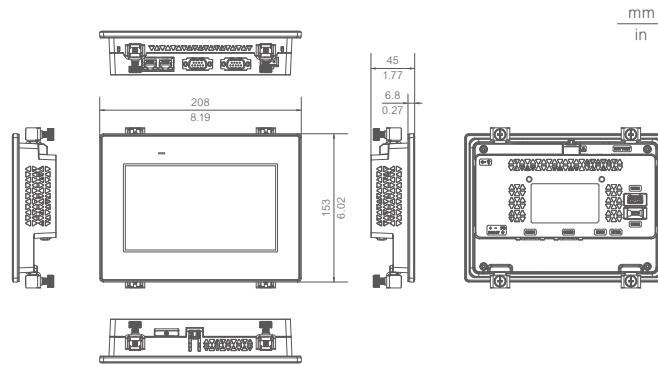
03 Connected & Secured

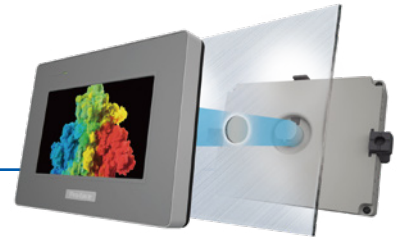Seamless and secured connectivity with various devices to enhance their flexibility and increase value.

SCADA / MES / SQL

NEW

Remote Visualization :
BLUE with Web Viewer[*1]

Secure Remote Maintenance
Pro-face Connect

Technician

OPC UA

NEW

Remote Visualization :
BLUE with Web Viewer

Store Data : Internal Flash
EPROM or USB Memory

Powered by
BLUE

Data Logging

Serial

Ethernet

| PLC | Robot | Servo | Inverter | Temp. |

Connect to controllers of various maker, models without programming

---

Dimension: ST-6400WA

mm / in

208
8.19

45
1.77

6.8
0.27

153
6.02

	ST-6700WA	ST-6600WA	ST-6500WA	ST-6400WA	ST-6200WA
Model No (BLUE)	PFXST6700WAD	PFXST6600WAD	PFXST6500WAD	PFXST6400WAD	PFXST6200WAD
Model No (GP-Pro EX)	PFXST6700WADE	PFXST6600WADE	PFXST6500WADE	PFXST6400WADE	PFXST6200WADE
Display	15.6" Wide (1,366 x 768)	12.1" Wide (1,280 x 800)	10.1" Wide (1,024 x 600)	7.0" Wide (800 x 480)	4.3" Wide (480 x 272)
	16M colors White LED 16 level brightness control				
Touch Panel	Type : Resistive film (analog), Service life : 1,000,000 times or more				
Interface	RS-232C x 1, RS-422 / 485 x 1 Ethernet x 2 USB (Type A) x 1 USB (micro-B) x 1				RS-232C / 422 / 485 x 1 Ethernet x 1 USB (Type A) x 1 USB (micro-B) x 1
Memory (BLUE)	Application memory : FLASH EPROM:128MB Backup memory : NVRAM 500KB Battery : Replaceable battery / Primary battery for clock data backup (5 years or more at room temperature)				
Memory (GP-Pro EX)	Application memory : Media : FLASH EPROM / Screen area: 64MB / User font area 8 MB / Logic program area: 132KB Backup memory : Screen Area: SRAM 320KB, Variable Area: SRAM 64KB Battery : Replaceable battery / Primary battery for clock data backup				
Input voltage	24 Vdc				
Structure	IP65F, Type 1, Type 4X (indoor use only), Type 13				
Certifications	CE, UL and cUL, RCM, KC, EAC, RoHS, WEEE				

Hardware

website

video

manual

datasheet

CAD

software

Basic Modular HMI NEW

STM6000 Series BLUE

The STM6000 series in the complement of the ST6000 range brings a new level of visualization to the Basic HMI market which no other basic product has accomplished. Also, the product can be installed easily as no tools are necessary and very fast with the unique push-button mounting system through a φ22 mm circular hole.

01 Easy & Fast Installation

The product can be installed easily as no tools are necessary and very fast with the unique push-button mounting system through a φ22 mm circular hole.

Display module | Enclosure | Nut | Rear module
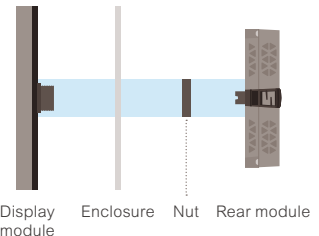
02 Flexible Installation

Thanks to modularity design, for specific applications (space, temperature, or vibration constraints) product can be separated with cable accessory 3m, 5m,10m to install the Display module on the panel door and the rear module on DIN rail with dock station adapter.
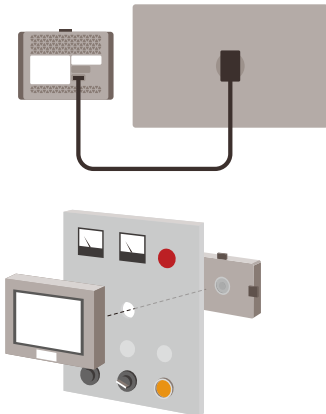
03 Easy Maintenance

Spare part front & rear modules are available to replace the faulty part.

	STM-6400WA	STM-6200WA
Model No	PFXSTM6400WAD	PFXSTM6200WAD
Display	7.0" Wide (800 x 480)	4.3" Wide (480 x 272)
	16M colors White LED 16 level brightness control	
Touch Panel	Type: Resistive film (analog) , Serve life: 1,000,000 time or more	
Interface	COM1 RS-232C/485/422 SubD9 Ethernet1 : IEEE802.3i / IEEE802.3u, 10BASE-T / 100BASE-TX Ethernet2 : IEEE802.3i / IEEE802.3u, 10BASE-T / 100BASE-TX USB host type A, USB device Micro B	
Memory	Application memory : FLASH EPROM:128MB, Backup memory : NVRAM 500KB Battery : internal battery / Primary battery for clock data backup (5 years or more at room temperature)	
Input voltage	19.2 to 28.8V DC	
Structure	IP65F, UL 50/50E,Type 1, Type 4X (indoor use only), Type 12,Type 13,	
Certifications	CE, UL/cUL, RCM, KC, EAC, IECEx / ATEX*1, RoHS, WEEE	

*1 ATEX/IECEx Zone 2/22 will be acquired in 2021.

Dimension: STM-6400WA

201.2 / 7.92

57.7 / 2.27

mm / in

137.2 / 5.4

Basic Web HMI
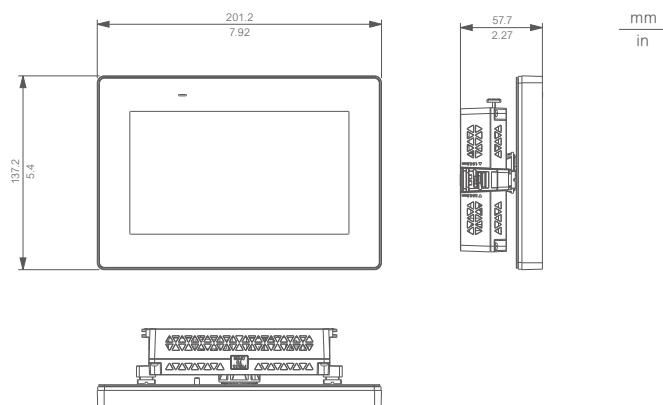
STW6000 Series

Many industrial automation devices support HTML5, which can be displayed on PCs, tablets, and smartphones. As a Web HMI, STW6000 can easily display HTML5 data from multiple devices. We are the HMI specialist, and the superior quality display, maintainability and robustness of our Web HMI meets the needs of simple machine applications for factory automation.
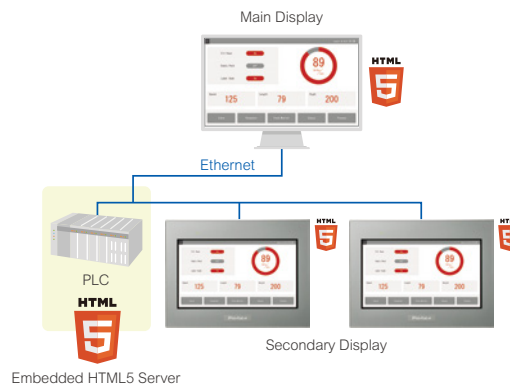

General PC

PLC

Drive
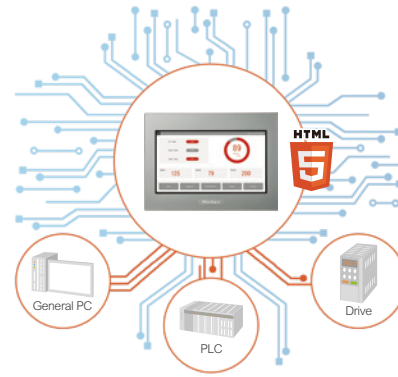
01 Main Display

Main display for simple machine is alternative to basic terminal.


Ethernet

PLC   Drive

Embedded HTML5 Server
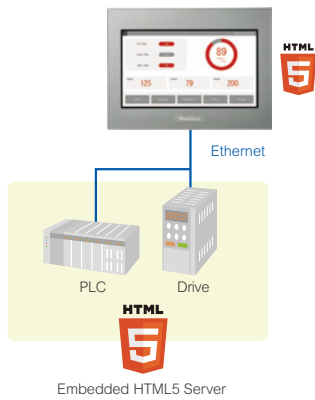
02 Secondary Display

Secondary cost effective display can also visualize small information for maintenance-diagnostic directly from PLC Servers or from the main display if it embeds its own server.

Main Display

Ethernet

PLC

Embedded HTML5 Server

Secondary Display

	STW-6700WA	STW-6600WA	STW-6500WA	STW-6400WA	STW-6200WA
Model No	PFXSTW6700WAD	PFXSTW6600WAD	PFXSTW6500WAD	PFXSTW6400WAD	PFXSTW6200WAD
Display	15.6" Wide (1,366 x 768)	12.1" Wide (1,280 x 800)	10.1" Wide (1,024 x 600)	7.0" Wide (800 x 480)	4.3" Wide (480 x 272)
	16M colors White LED 16 level brightness control				
Touch Panel	Type:Resistive film (analog), Service life:1,000,000 times or more				
Related	Ethernet1 & Ethernet2 with switch function : IEEE802.3i / IEEE802.3u, 10BASE-T / 100BASE-TX USB : Type A x 1 (HOST)				Ethernet : IEEE802.3i / IEEE802.3u, 10BASE-T / 100BASE-TX x 1 USB : Type A x 1 (HOST)
Input voltage	24 Vdc				
Structure	IP65F, Type 1, Type 4X (indoor use only), Type 13				
Certifications	CE, UL and cUL, RCM, KC, EAC, RoHS, WEEE				

Dimension: STW-6400WA

mm
in

208
8.19

45
1.77

6.8
0.27

153
6.02
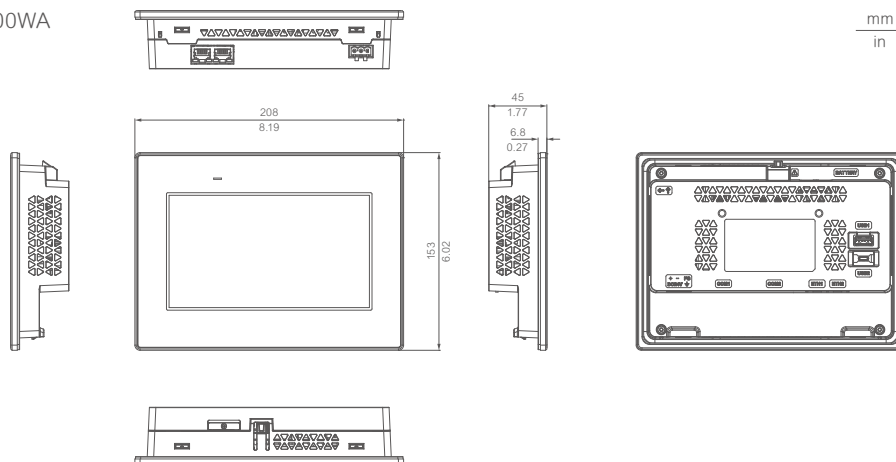
Standard HMI

GP4000 Series GP-Pro EX

Standard

Varied and flexible lineup satisfying customers needs

Combines abundant functions with a broad line-up of versatile models to meet the specific needs of every customer.

01 Widest line-up in the Pro-face brand

From classic to unique, we offer a wide range of choices to meet any application.

02 Compatible with our legacy models

GP410   GP2000   GP3000   GP4000

Data in GP-PRO/PBIII for Windows or later is convertible using project converter. Smooth transition to the latest models.

USB expansion options unique to Pro-face

Reduce excess inventory of indicator lights

EZ Tower Light Model : PFXZCETWHA1 (tube mounting with fixing plate)
Model : PFXZCETWW1 (base mounting)

With this single model, multiple colors and sounds can be set. Capable of indicating the state of equipment.

▍LED lamps adaptable to various types of setting

Configuration from HMI
4 colors (red, green, blue, and yellow)
and 3 modes (off, on, and blink)
Number of lamps: 3
Buzzer patterns: 4

Combining switch and lamp

EZ Illumination Switch   Model : PFXZCCEUSG1

Improve visibility with 6-color illumination.
Reduce man-hours for control panel installation and wiring

▍LED light switches accept a wide range of settings

Configuration by HMI design software
6 colors (red, green, blue, yellow, white, and orange)
and 3 modes (off, on, and blink)
Protection structure: IP65 (front face where panel is embedded)
Mount: 22φ circular mounting hole
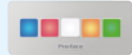
Work-saving for inputting repeated values

EZ Numpad Model : PFXZCCEUKB1

Reduces screens needed for value input

· Alphanumeric and customizable function keys
  (Set by HMI design software)
· Protection: IP65
· Mount: 22φ circular mounting hole

Adding second LAN port with independent IP address

EZ LAN Adapter   Model : PFXZCGEUUE1

The GP4000 series also allows you to securely set up a network.

· Same functions as built-in LAN port
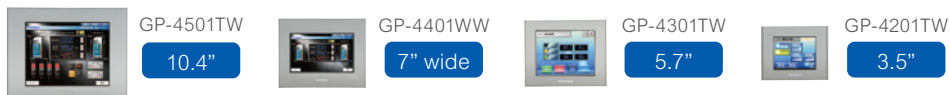· 10BASE-T / 100BASE-TX
· Limited to GP4000 standard models

Also can be used with Pro-face products other than GP4000 series.

Hardware

| | GP-4601T 12" | GP-4501T 10.4" | GP-4401T 7.5" | GP-4301T 5.7" | GP-4201T 3.5" |

Standard models

	GP-4601T	GP-4603T	GP-4501T	GP-4503T	GP-4401T	GP-4301T	GP-4303T	GP-4201T
Model	PFXGP4601T**	PFXGP4603TAD	PFXGP4501T**	PFXGP4503TAD	PFXGP4401TAD	PFXGP4301TAD	PFXGP4303TAD	PFXGP4201TAD
Display Size	12.1"		10.4"		7.5"	5.7"		3.5"
Rated Input Voltage	100...240 Vac / 24Vdc	24Vdc	100...240 Vac / 24Vdc	24Vdc	24Vdc			
Resolution	800 x 600pixels (SVGA)		640 x 480pixels (VGA)			320 x 240pixels (QVGA)		
Touch Panel Type	Resistive Film (analog)							
Application Memory	32MB					16MB		
Data Backup	SRAM 320KB							
Interface	RS-232C x 1,RS-422 / 485 x 1*,Ethernet x 1 USB (Type A) x 1,USB (mini B) x 1,SD Card Slot x 1							RS-232C / 422 / 485 x 1, Ethernet x 1,USB (Type A) x 1, USB (mini B) x 1,
Structure	IP65F							
External Dimensions	W315 x H241 x D56mm (W12.4 x H9.49 x D2.2 in.)		W272.5 x H214.5 x D57mm (W10.73 x H8.44 x D2.24 in.)		W218 x H173 x D60mm (W8.59 x H6.81 x D2.37 in.)	W169.5 x H137 x D59.5mm (W6.67 x H5.39 x D2.34 in.)		W132 x H106 x D42mm (W5.2 x H4.17 x D1.65 in.)
Panel Cut Dimensions	W301.5 x H227.5mm (W11.87 x H8.96 in.)		W259 x H201mm (W10.2 x H7.91 in.)		W204.5 x H159.5mm (W8.05 x H6.28 in.)	W156 x H123.5mm (W6.67 x H4.86 in.)		W118.5 x H92.5mm (W4.67 x H3.64 in.)
Connectable Devices	4							
Custom (Coating)	Yes							
Custom (Front Color Bezel)	Yes							
Rear Mount model (GP4000R)	Model:PFXGP4601TADR		Model:PFXGP4501TADR		Model:PFXGP4401TADR	Model:PFXGP4301TADR		-
External Video Unit-supporting Model	Product Name:GP-4621T Model:PFXGP4621TAA Model:PFXGP4621TAD (coating:Yes)		Product Name:GP-4521T Model:PFXGP4521TAA Model:PFXGP4521TAD (coating:Yes)					

Best choice for replacement!
VM or RGB unit from GP3000 can be used without additional settings.

** : [AA] Analog touchscreen & AC power supply; [MD] Matrix touchscreen & DC power supply; [AD] Analog touchscreen & DC power supply; [MA], Matrix touchscreen & DC power supply.
* : GP-4*03T:RS-485 (isolation)

| | GP-4501TW 10.4" | GP-4401WW 7" wide | GP-4301TW 5.7" | GP-4201TW 3.5" |

W models

	GP-4501TW	GP-4401WW	GP-4301TW	GP-4201TW
Model	PFXGP4501TADW	PFXGP4401WADW	PFXGP4301TADW	PFXGP4201TADW
Display Size	10.4"	7"wide	5.7"	3.5"
Rated Input Voltage	24Vdc			
Resolution	640 x 480pixels (VGA)	800 x 480pixels (WVGA)	320 x 240pixels (QVGA)	
Touch Panel Type	Resistive Film (analog)			
Application Memory	16MB		8MB	
Data Backup	SRAM 128KB			
Interface	RS-232C x 1,RS-422 / 485 x 1,Ethernet x 1, USB (Type A) x 1,USB (mini B) x 1,SD Card Slot x 1,		RS-232C x 1,RS-422 / 485 x 1 Ethernet x 1*, USB (Type A) x 1,USB (mini B) x 1,	
Structure	IP65F			
External Dimensions	W315 x H241 x D56mm (W12.4 x H9.47 x D2.20 in.)	W218 x H173 x D60mm (W8.59 x H6.8 x D2.37 in.)	W169.5 x H137 x D59.5mm (W6.67 x H5.39 x D2.34 in.)	W132 x H106 x D42mm (W5.2 x H4.17 x D1.05 in.)
Panel Cut Dimensions	W301.5 x H227.5mm (W11.87 x H8.96 in.)	W204.5 x H159.5mm (W8.05 x H6.28 in.)	W156 x H123.5mm (W6.14 x H4.86 in.)	W118.5 x H92.5mm (W4.07 x H3.64 in.)
Connectable Devices	2			
Custom (Coating)	Yes			
Custom (Front Color Bezel)	Yes			

*:Excluding GP-4201W

GP4000R Rear mount model

Optimized for hygiene-oriented environments.

| 12.1" | 10.4" |
| 7.5" | 5.7" |
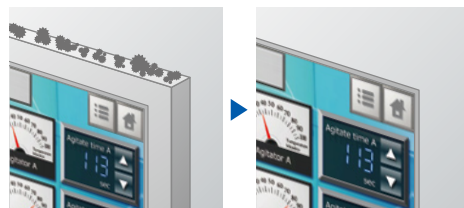
Flat design to protect from mounting surface from dust.
Ideal for medical or food production equipment.

Hardware

GP4100 Compact model *GP-Pro EX* 4.3"

High resolution and full color in a small size

01 Small-sized HMI but no compromises visibility or operability

With a resolution of 480 x 272 pixels, information is finely displayed despite the limitations of space.
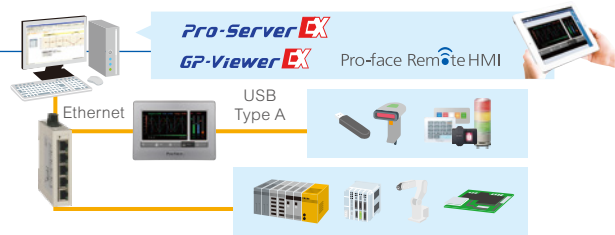
And more...

65,536
color display

Panel cut same as monochrome model

Monochrome model (GP-410**) + Panel cut adapter =
(Model:PFXZCFAD31)
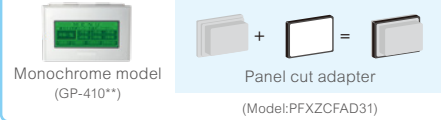
02 Connectivity with a range of devices

This product allows you to collect data and monitor everything remotely using a tablet.

Pro-Server EX
GP-Viewer EX Pro-face Remote HMI

Ethernet   USB Type A

	GP-4114T	GP-4115T	GP-4115T3	GP-4116T
Model	PFXGP4114T2D	PFXGP4115T2D	PFXGP4115T3D	PFXGP4116T2D
Display Size	4.3"			
Rated Input Voltage	12...24 Vdc			
Resolution	480 x 272 pixels			
Touch Panel Type	Analog			
Application Memory	8MB			
Backup Memory	FLASH EPROM 128KB		NVRAM 320KB	FLASH EPROM 128KB
Interface	Ethernet x 1 USB (Type A) x 1,USB (mini B) x 1	RS-232C x 1 USB (Type A) x 1,USB (mini B) x 1		RS-422/485 x 1 USB (Type A) x 1 USB (mini B) x 1
Structure	IP65F			
External Dimensions	W124.9 x H90.4 x D38.8mm (W4.92 x H3.56 x D1.53 in.)			
Panel Cut Dimensions	W112.5 x H77.5mm (W4.43 x H3.05 in.) With Panel cut adapter:W105 x H66mm (W4.13 x H2.6 in.)			
Connectable Devices	2			

GP4000H Handy model *GP-Pro EX* 5.7"

GP-4311HT

The latest handy display with high compatibility with the GP3000H models and reduced weight.

	GP-4311HT
Model	PFXGP4311HTAD
Display Size	5.7"
Rated Input Voltage	24Vdc
Resolution	640×480 pixels (VGA)
Touch Panel Type	Analog
Application Memory	32MB
Structure	IP65F
Connectable Devices	3
Interface	RS-232C / 422 / 485 x 1,Ethernet x 1 USB (Type A) x 1,USB (mini B) x 1 SD Card Slot x 1 Function Switch x 12 Switches:1a2b 3-Position Enable Switch Output:2a Key Switch Output:1c <When using the conversion adapter> Operation Output x 1 External Buzzer Output x 1

Hard-type Direct-connect Cable	10m	GP3000H-CBLH-10M
Soft-type Direct-connect Cable	3m	GP3000H-CBLS-3M
	5m	GP3000H-CBLS-5M
	10m	GP3000H-CBLS-10M
Hard-type Direct-connect Cable (with connector)	10m	GP3000H-CBLHD-10M
Soft-type Direct-connect Cable (with connector)	3m	GP3000H-CBLSD-3M
	5m	GP3000H-CBLSD-5M
	10m	GP3000H-CBLSD-10M
Conversion Adapter		AGP3000H-ADPCOM-01

LT4000M Series GP-Pro EX

Hybrid display with control function

5.7" 3.5"

Since the release of the world's first controller with display (CGP model) in 1996, our products have gained a reputation for enabling customers to save space as well as equipment costs.
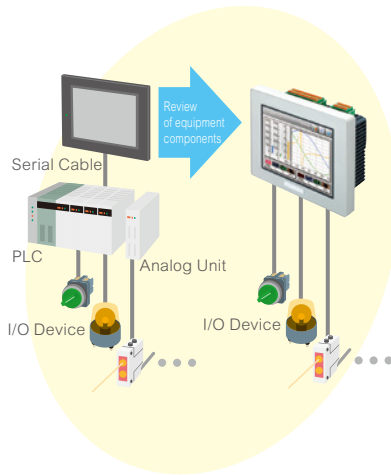
Flexible

01 Simple design without PLC

Connectivity with a range of devices.

Serial Cable
PLC
Analog Unit
I/O Device
I/O Device
Review of equipment components

02 Easy to create control panels

Easily retrofittable, requiring only 22φ circular mounting holes

Display Module
Rear Module

The operation panel and control panel are aligned separately

Installation on DIN rail
Connection with display module
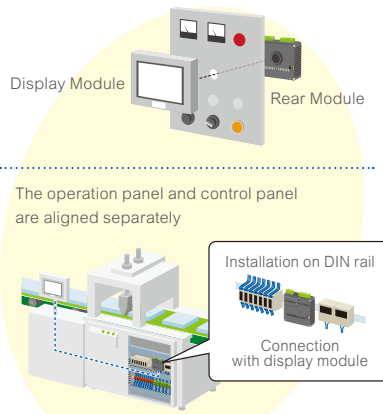
Product Name	Length	Model
Display module /Rear module separation cable	3m	PFXZXMADSM31
	5m	PFXZXMADSM51

03 Create systems with reduced wiring using remote I/O.

Compatible with European standard CANopen. Communicate with CANopen compatible slave units with LT as master

DIO/AIO extended EX module

	LT-4301TM		LT-4201TM	
Model	PFXLM4301TADD*	PFXLM4301TADA*	PFXLM4201TADD*	PFXLM4201TADA*
Display Size	5.7"		3.5"	
Rated Input Voltage	24Vdc			
Control	DIO	AIO+DIO	DIO	AIO+DIO
Resolution	320 x 240pixels (QVGA)			
Touch Panel Type	Resistive Film (analog)			
Application Memory	16MB			
Backup Memory	NVSRAM 128KB			
Logic program area	FLASH EPROM 132KB			
Variable area	NVSRAM 64KB			
Interface	RS-232C / 485 x 1 Ethernet x 1 USB (Type A) x 1 USB (mini B) x 1 CANopen (Master) x 1			
Structure	IP65F			
External Dimensions	Display Module:W163 × H129.4 × D17.5mm (W6.42 x H5.09 x D0.69 in.) Rear Module:W128 × H108 × D60.15mm (W5.03 x H4.25 x D2.36 in.)		Display Module:W97.6 × H80 × D16.2mm (W3.8 x H3.1 x D0.63 in.) Rear Module:W128 × H108 × D60.15mm (W5.03 x H4.25 x D2.36 in.)	
Panel Cut Dimensions	φ22.5mm			
Connectable Devices	4			
Built-in DIO (Input)	20 points (configurable 2 x High Speed counter / Pulse catch or 1 Up / Down High Speed Counter)	12 points (configurable 2 x High Speed counter / Pulse catch or 1 Up / Down High Speed Counter)	20 points (configurable 2 x High Speed counter / Pulse catch or 1 Up / Down High Speed Counter)	12 points (configurable 2 x High Speed counter / Pulse catch or 1 Up / Down High Speed Counter)
Built-in DIO (Output)	12 points (configurable 2 x PWM / Pulse)	8 points (configurable 2 x PWM / Pulse)	12 points (configurable 2 x PWM / Pulse)	8 points (configurable 2 x PWM / Pulse)
Built-in AIO (Input)	0 points	4 points (Voltage / Current x 2 - Temperature input x 2 included)	0 points	4 points (Voltage / Current x 2 - Temperature input x 2 included)
Built-in AIO (Output)	0 points	2 points (Voltage / Current x 2)	0 points	2 points (Voltage / Current x 2)

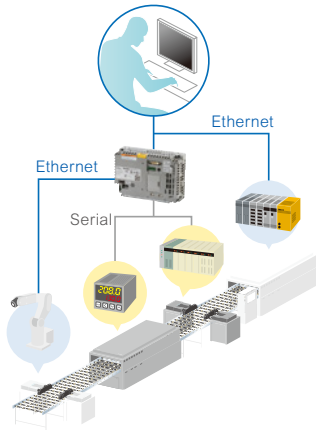Hardware

Data collection

Multi-Converter

NEW

Step Towards IoT

A multi-converter that offers a solution for data collection, connecting to a wide variety of equipment as well as PLC

Smart Gateway

01 Merge data from different devices

Unify protocols and collect data efficiently

Ethernet

Ethernet

Serial

02 Tablet-based on-demand HMI

See status of equipment or devices in the right place at the right time.

03 HMI for ANDON (Large-size monitor)

Optimize work by sharing production status.

Large monitor
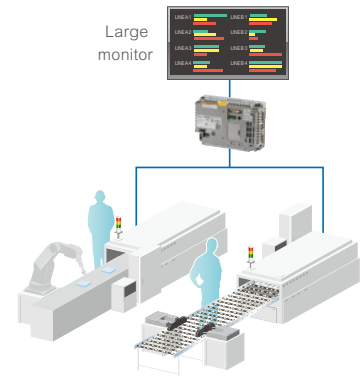
04 Easily collect PLC data by network or USB memory

Export

Read

Connection with PLC from various manufacturers without program

PLC

Multi-Converter

Ethernet

Plus Control

NEW
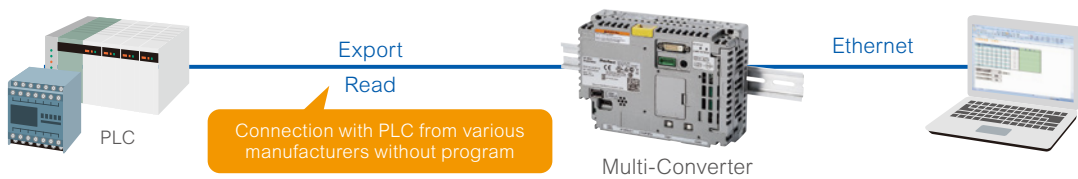
	SP5000 (Open BOX) Model	SP5000 (Power BOX) Model	SP5000 (Standard BOX) Model	LT4000M Model	STM6000 Model will be released around February 2021
Base module	PFXSP5B41	PFXSP5B10	PFXSP5B00	PFXLM4B01DAC	PFXSTM6B00D
				PFXLM4B01DAK	
				PFXLM4B01DDC	
				PFXLM4B01DDK	
Adapter		PFXZCDADEXP1		PFXZXMADSA1	
Software		GP-Pro EX			BLUE

FANUC limited model(Model:PFXLM4B01DAKFF) is available. Data collection from CNC of old machines.

Screens can be expanded with industrial specifications for displays, industrial computers and personal computers.

As embedded displays with industrial specification, 3 types of DVI-D/Display Port/Ethernet connection are available.
In addition, acquisition of overseas standards and installation of VESA are applicable.
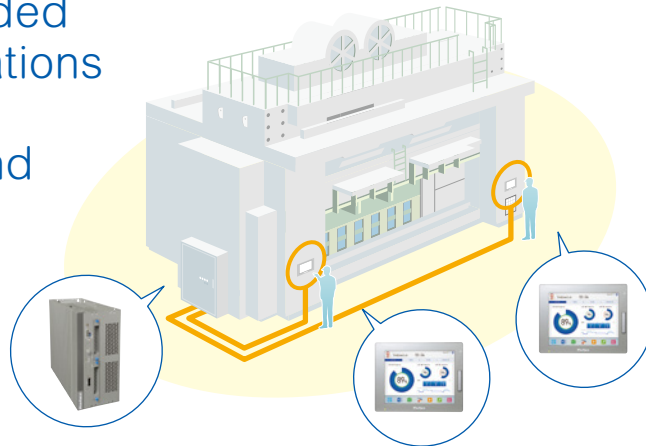
Flat Panel Monitors
FP5000
series

Industrial flat panel display with high environmental resistance that allows multi-gesture control even when wearing gloves.

· Replaceable from FP3000 series
· Automatic scaling functions
· Windows XP compatibility

FP5000 Series   Host

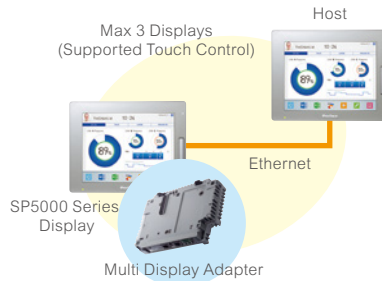DVI/USB Cable

Hi-Performance HMI
SP5000
Multi Display Adapter

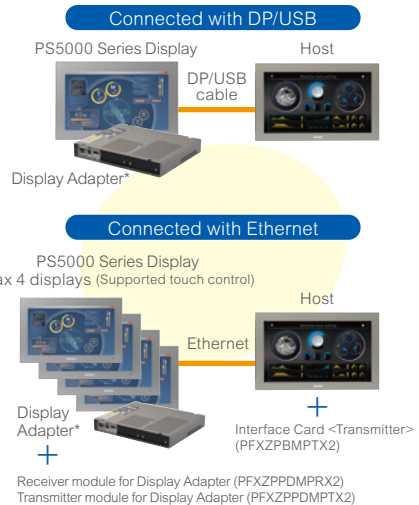Expansion unit for using the SP5000 series display as an Ethernet flat panel display.

· Connectable up to 100 meters with one Ethernet cable
· Support both duplicate and extended mode, a touch operation exclusive control

Max 3 Displays
(Supported Touch Control)

Host

Ethernet

SP5000 Series Display

Multi Display Adapter

Industrial PC
PS5000
Remote Display Adapter
/ Display Adapter

Extension unit for the SP5000 displays allowing you to add a high-quality, glass front display to a SP5000 host.

Connected with DP/USB

PS5000 Series Display   Host

DP/USB cable

Display Adapter*

Connected with Ethernet

PS5000 Series Display
Max 4 displays (Supported touch control)

Host

Ethernet

Display Adapter*

Interface Card <Transmitter>
(PFXZPBMPTX2)

Receiver module for Display Adapter (PFXZPPDMPRX2)
Transmitter module for Display Adapter (PFXZPPDMPTX2)

*Only for BTO

	FP-5700TPD	FP-5600TPD
Model	PFXFP5700TPD	PFXFP5600TPD
Display Size	15"	12"

	Multi Display Adapter
Model	PFXZCDADEXR1

	FP5000 Series	SP5000 Series Display + Multi Display Adapter		PS5000 Series Display + Display Adapter	
Touch Panel Type	Resistive Film (Analog)	Capacitive (5 simultaneous touch)	Resistive Film (Analog)	Capacitive (5 simultaneous touch)	Resistive Film (Analog)
Size	15" / 12"	19"wide / 15"wide	15" / 12"wide / 12" / 10"wide / 10" / 7"wide	22"wide / 19"wide / 15"wide / 12"wide	15" / 12"
Host	PS5000 / SP5000 Open Box (SP-5B41) / General-purpose PC	SP5000 Open Box (SP-5B41) / PS5000 General-purpose PC		PS5000 / General-purpose PC *1	
OS	WinXP (32 bit), WES2009 Win7 (32 / 64 bit), WES7 Win8 (32 / 64 bit) Win8.1 Industry (64 bit) Windows 10 IoT Enterprise 2016 LTSB *3 Windows 10 IoT Enterprise 2019 LTSC *3	Win7 (32 / 64 bit), WES7 (64 bit) Win8 (32 / 64 bit) Win8.1 Industry (64 bit) Windows 10 IoT Enterprise 2016 LTSB *3 Windows 10 IoT Enterprise 2019 LTSC *3		Win7 (32 / 64 bit), WES7 (64 bit) Win8 (32 / 64 bit) Win8.1 Industry (64 bit) Windows 10 IoT Enterprise 2016 LTSB *3 Windows 10 IoT Enterprise 2019 LTSC *3	
Video	DVI-D	Ethernet		Ethernet *2	Display Port
Touch	USB (Type B)				USB (Type B)
Distance to connect	5m (16ft.)	100m (328ft.)		100m (328ft.)	5m (16ft.)
Rated Input Voltage	12...24Vdc	12...24Vdc		100...240Vac (Option) / 24Vdc	
Surrounding air temperature	0...60°C	0...60°C		0...55°C	

*1 when connecting to Ethernet, only PS5000 *2 Additional items required to connect to Ethernet. *3 OS Version depends on the Software version

Hardware

BLUE Line Management Lite SCADA

Open Studio

VERSION UP

FDA
21 CFR PART 11
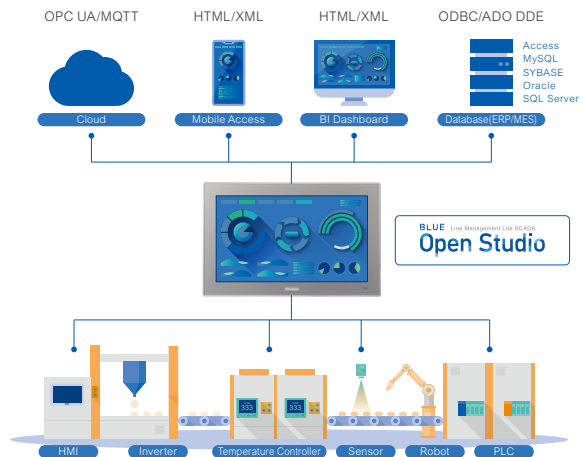
Flexible software for your need

Pro-face BLUE Open Studio is a development and runtime software that incorporates all of the tools users need to create SCADA HMI applications, dashboards and OEE interfaces.

Basic Features

Scripting	Animation	Recipes	Email (SMTP)
Security	Database	Multi-touch	FTP
Symbols	Events	Reports	Historical Performance
Tags Database	Graphics and Design Tools	Scalable	PDF Export
Troubleshooting	Trends	Scheduler	SSL Support for Emails
Gestures	Multi-Language	OPC	DDE Client
Alarms	ActiveX and .NET	Intellectual Property Protection	Custom Widgets

Connectivity

250+ available communication drivers for PLCs and many other devices.
Native OPC interfaces such as OPC UA/DA
Active X and .Net controls
Support upper connectivity to DB through MQTT.

OPC UA/MQTT   HTML/XML   HTML/XML   ODBC/ADO DDE

Access
MySQL
SYBASE
Oracle
SQL Server

Cloud   Mobile Access   BI Dashboard   Database(ERP/MES)

BLUE Line Management Lite SCADA
Open Studio

HMI   Inverter   Temperature Controller   Sensor   Robot   PLC

IT(ERP/MES)

Analysis/Diagnostic
Data Management
Collect

OT(Controller/Device)

Database

Connect to any SQL database (Microsoft SQL, MySQL, Sybase, Oracle), or Microsoft Access or Excel, and ERP/MES systems (including SAP), even from Windows Embedded Compact Edition. BLUE Open Studio is flexible, offering a built in interface that doesn't require knowledge of SQL for trends, alarms/events, grid and other objects).

OPC

BLUE Open Studio provides native OPC interfaces, such as OPC DA (Server/Client), OPC HDA(Server), UA (Server/Client) and OPC .NET 3.0 (Client). BLUE Open Studio also supports OPC XML.
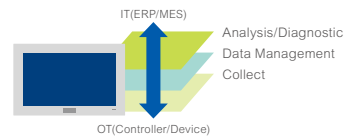
Trends

Real-time and Historical trends, and SPC functionality are supported. Log data in binary format, or to any local or remote SQL database. Color or fill trends with graphic elements to enhance clarity of data. Date/ Time based or numeric (X/Y plot) trends give you the flexibility to display information that best suits your application.
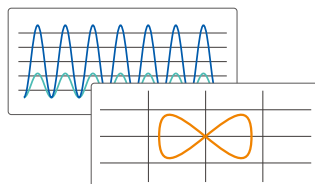
Custom Widget

Custom Widgets provides the ability to integrate third-party web-based controls into the HMI/SCADA project screens. Develop and share a library of controls that can be easily integrated into an application and accessible through multiple platforms.
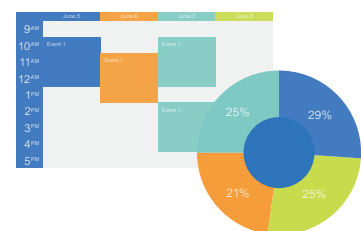
Historian

BLUE Open Studio includes support for saving historical data from some task worksheets to a Historian database or AVEVA Insight.

Historian

Cloud

AVEVA Insight

Various Devices

Import Wizard

PanelMate (Eaton and Cutler Hammer)
FactoryTalk View ME/SE (Rockwell)
PanelBuilder32SESSE (Rockwell)

Automatically converting

BLUE Line Management Lite SCADA
Open Studio

Remote Access

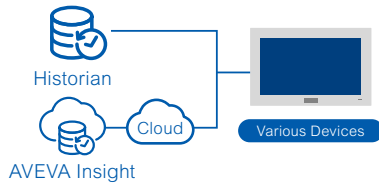Access your BLUE Open Studio Screen from any device with a browser that supports HTML5, such as iPads, iPhones, Android devices, Windows devices, and others.

License Lineup

To version-up from Version 8.0 / 8.1 to 2020, version-up licenses are required. In addition, upgrade licenses are available to upgrade (ex, from Line management plus to Supervision)

Product Name	No.of Licenses	No.of Tags	Model	Media
BLUE Open Studio for Supervision	1 License	64,000	PFXBOS*T64K*V80	DVD / Sticker *1
BLUE Open Studio for Line Management Plus	1 License	32,000	PFXBOS*T32K*V80	DVD / Sticker *1
BLUE Open Studio for Line Management	1 License	4,000	PFXBOS*T4K*V80	DVD / Sticker *1
BLUE Open Studio for Machine Control	1 License	1,500	PFXBOS*T1K*V80	DVD / Sticker *1
BLUE Open Studio Thin Cliant	1 License	-	PFXBOSTC	Sticker
BLUE Open Studio Import Wizard	-	-	PFXBOSTK	Sticker
BLUE Open Studio USB Hard key	-	-	PFXBOSUSBL	USB

*1 Version 8.1 only.

PS6000 + BLUE Open Studio

Best in class pre-installed bundle to improve your business with easy select and quick delivery

1 Configured bundle, Hardware, Software and OS

Single configured order, for fast delivery of PS6000 with latest pre-installed* software version, and activation license, rich options Dedicated support team for a single contact window to resolve any issues

2 Save time & resources on validation and commissioning

Extensive testing and validation process from the HMI leader, for easy integration, hardware, software and operating systems to complete commissioning faster
To save time, money and resources making application up and running

3 Sustainable supply & compatibility

A single supplier for software and hardware requirements
Stress-free migration to new releases, answering long-term industry requirements

Save Time and Stress   **Save Money**

QUICK DELIVERY

BLUE

VERSION UP

Versatile Software

Revolutionary new software,
BLUE offers an alternative experience in HMI project design.
Anyone can easily create and change dynamic screens.

Refined

High quality graphics

Clearer fonts and screen parts make an obvious difference. The clarity is not affected by zoom level

Stylish design

Customize gradation and transparency to meet your needs. Stylish expression including transparent effects.

Simple & Easy

One source, multiple ways to present

Support HMI project designer to adapt/customize projects and create easily situational awareness projects delivering more intuitive projects to the operators.

View all needed information at once

Simply display all necessary screens in one place. Multi-screen information gives rise to improvement in operation efficiency.

Responsive Behavior (Dock panel)

Several pages in one screen, and independent navigation in each section. Adapt the size of information to meet your needs with one click on the dynamic display.
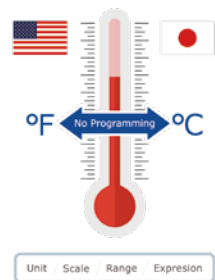
Highly flexible graph features

Using data analyzing features, such as graph comparison, can produce more expressive insight than ever before

Change the value of a variable without programming

Use a converter to change the value of a variable from the defined unit, range, scale, and expression without programming.

Connected & Secured

VERSION UP

Pro-face connectivity

User-friendly protocols allowing you to connect your devices with ease via multiple interfaces and connect OT to IT with OPC-UA server.
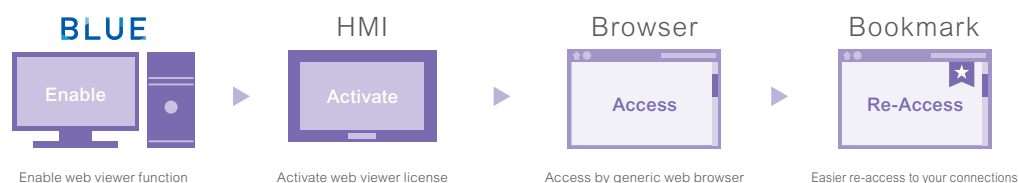
BLUE Web Viewer

Remote Access NEW

Remote Visualization on PC or Tablet
/ Smartphone with new Web View features of BLUE.

See status of equipment or devices in the right place at the right time.

Simple steps to start to Remote Access

BLUE	HMI	Browser	Bookmark
Enable	Activate	Access	Re-Access
Enable web viewer function	Activate web viewer license	Access by generic web browser	Easier re-access to your connections

Secure remote access solution

"Pro-face Connect" is a ready-to-use solution for Remote Access Over Internet on ST6000 Series without programming or configuring each device.Start using the cloud based "Pro-face Connect"" Smart Industry solution on your existing network without involving your IT department. No network or firewall configurations are required and still the highest level of security and encryption is in place from end to end, from any PC, tablet and smartphone to your machinery.

Enhanced cybersecurity against basic intentional attacks

Need admin rights to download project to HMI target
Auto user log out after predefined idle time
Doing security checking during booting
Secure Ethernet download supported by IPSec and password protected project file

CERTIFIED achilles CERTIFIED

Product Name	Model	Description		Supported models
BLUE Professional	PFXBLPCZLSPAZZ	Single license	Email	ST6000 Series, STM6000 Series, GP4100 Series Color model, SP5000 Series, PS5000 Series
	PFXBLPCZLSPMZZ		Paper	
	PFXBLPCZLGPA31	Group License	Virtual delivery	
	PFXBLPCZLGPM31		Printed delivery	
	PFXBLPCZLTPA31	Team License	Virtual delivery	
	PFXBLPCZLTPM31		Printed delivery	
BLUE Basic*1	PFXBLECZLSRAZZ	Single license	Email	ST6000 Series, STM6000 Series, GP4100 Series Color model
	PFXBLECZLSPMZZ		Paper	
BLUE Runtime	PFXBLRCZLSPA31	Single license	Virtual delivery	PS5000 Series and PC / AT
	PFXBLRCZLSPM31		Printed delivery	
BLUE Web Viewer Runtime	PFXWRT001	Single license	License Keycode	ST6000 Series, STM6000 Series, SP5000 Series, PS5000 Series
	PFXWRT010	10 Licenses		
	PFXWRT100	100 Licenses		
BLUE USB Media Installer	PFXBTUSB32	USB Media with an installer		

*1 Basic License doesn't support for WEB API and OPC-UA. OPC-UA Server is not supported on GP4100 Series Color model

HMI Design Studio

Start the best experience with Pro-face HMI

HMI Design Studio is a creative and easy-to-use website that helps you and your team create HMI design for engineering

Installer

Download Pro-face HMI Versatile software BLUE (Full Installer / Trial Mode).

Design Studio

Download over 300 kinds of ready-made template screens and parts or design it by yourself.

Online Tutorial

Learn skills to achive your personal and professional goals. Join today to get access to thousands of courses.

Blue Support

Contact our support or leam more about support topics that will help you.

Welcome to a whole new HMI experience   www.proface.com/en/service

Screen editor software

GP-Pro EX

VERSION UP

Standard screen editor software

Enables HMI screen and logic programming.
Screen customization can be performed with ease due to many functions that promote compatibility with legacy applications and reduce development time.

Connect directly to a wide range of devices

Largest number of drivers in the industry and many sample parts that enable connection with various manufacturers' equipment.

Leverage existing assets

Increase the compatibility with previous data

Show Differences   Show Details

Able to display the difference between two similar files in detail.

Multi-version file format support for screen project files

PRX
Latest Version

PRX
Latest Version

PRX
Previous Version

Screen project files edited in the latest version can also be saved in the previous version.

Screen and logic can be edited with one software

Controller addresses can be used directly in the editor via drag and drop, thus reducing the development time.

Address shared

Function block adoption

Drag and drop
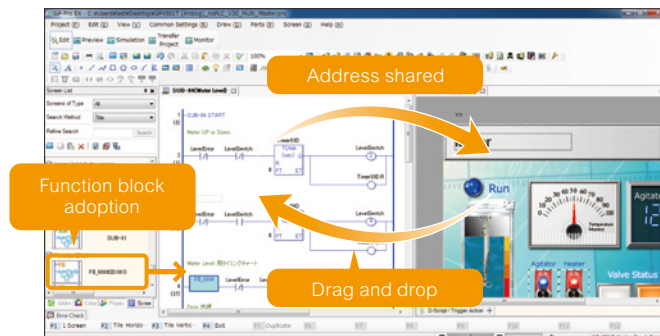
Runtime engine WinGP

Screens created by GP-Pro EX operate on a Windows OS-equipped machine using the Runtime engine.

Seamless communication with control equipment

No need to develop a driver to communicate with control equipment such as a PLC or temperature controller.

Cooperation with user database using dedicated API

Settings of WinGP are editable and device address read/write of the connected device can be done by the user application.

Model	Description	
PFXEXEDV**	HMI screen editor & logic programming software (DVD)	
PFXEXEDLS**	1 license	GP-Pro EX editor license (license key code)
PFXEXGRPLS**10	10 licenses	
PFXEXGRPLS**25	25 licenses	GP-Pro EX Editor Group License (license key code)
PFXEXGRPLS**50	50 licenses	
EX-WINGP-IPC	1 license	License for using WinGP on WinGP-compatible IPC (license key code)
EX-WINGP-PCAT	1 license	License for using WinGP on PC / AT-compatible PC (license key code)

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

Data management software

Pro-Server EX

A simple way to start networking to enhance the communication between the office and the manufacturing site.

Real-time visualization and analysis of data from production sites. Remote machine monitoring and transfer of work instructions to increase efficiency between the production site and the office.

Networking of the entire site to collect data collectively without programming

Collecting accurate information, and analyzing and utilizing all your data will lead to improvement in working processes!

Office

Data Collection

Ethernet

Production Assignment

Production Site
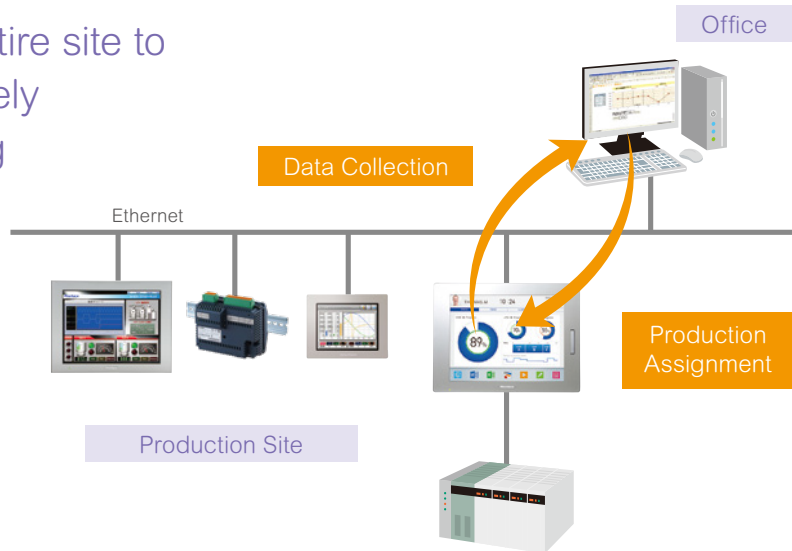
Remote Access

Pro-face Remote HMI   VERSION UP

Software that enables tablets and smartphones to display and operate the exact same screen as the on-site HMI.
Secure design with full-feature functions taking into consideration tablet operations.

Supported OS	Android OS, iOS (iPhone, iPad, iPod touch)

Download (purchase) from App Store / Google Play

Pro-face Remote HMI Server   VERSION UP

Installing Pro-face Remote HMI Server on a Windows device allows users to monitor and operate Excel and PDF files from Pro-face Remote HMI, in addition to the terminal operator screens.

Model	Description
PFXEXRHSLS	Software to operate and monitor Windows applications such as Excel or PDF besides Pro-face HMI screen

Pro-face Remote HMI Client for Win   VERSION UP

More powerful Pro-face Remote HMI for Windows OS launched.
While inheriting the functions of Pro-face Remote HMI, newly improved functions were added.

Model	Description	
PFXEXRHCLS	1 License	
PFXEXRHCLS10	10 Licenses	Software for remote viewing of Pro-face HMI from desktop PC (license key code)
PFXEXRHCLS30	30 Licenses	

Software

Secure Remote Access over Internet

Pro-face Connect

VERSION
UP

Connect and Go

Pro-face Connect is a ready-to-use embedded HMI service
to access machines remotely and securely.

Small initial cost

No need to locate VPN router in every branch.
Able to operate the system with only the license of running cost.
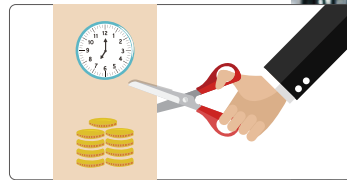
Able to use IP address with no change

Able to connect to the existing local IP address with no change.
No man-hours to change an IP address.

192.168.1.10   192.168.150.0
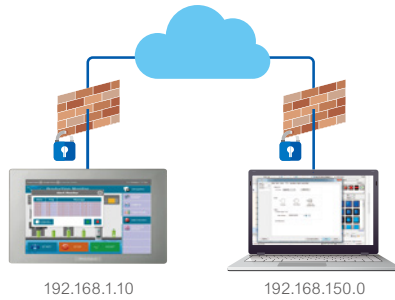
Connect securely

Conforms with industry level standards for security. Able to build a secure network.

- User access based on x.509 Cert.
- AES data encryption
- ISA99 and IEC 62443

Pro-face Connect

"Pro-face Connect" is a ready-to-use solution for Remote Access Over Internet on IPC, PS5000 Series and Smart Portal SP5000 Series without programming or configuring each device. Start using the cloud based "Pro-face Connect" Smart Industry solution on your existing network without involving your IT department. No network or firewall configurations are required and still the highest level of security and encryption is in place from end to end, from any PC, tablet and smartphone to your machinery.

Central Admin

Manager

Pro-face Connect
LinkManager

Connect with any programming software

Technician

Pro-face Connect
GateManager

Cloud Server

Pro-face Connect
SiteManager

Pro-face HMI / IPC unit

PLC

Robot

Pro-face Rem♦te HMI

Pro-face Connect
LinkManager Mobile

License Lineup

Product Name		Model No.	Description
Pro-face Connect 30 days Free Trial		PFXCONFREE30	Trial package running 30 days and including: 1 x Pro-face Connect GateManager License 1 x Pro-face Connect SiteManager Embedded Extended License, 5 device agents 1 x Pro-face Connect LinkManager License (floating license) 1 x Pro-face Connect LinkManagerMobile License
Basic Packs	Pro-face Connect Essential Pack	PFXCONPACKESS	1 x GateManager Customer Domain / 1 x LinkManager Floating License 1 x LinkManager Mobile License / 1 x SiteManager Extended 5 (Annual)
	Pro-face Connect Enterprise Pack	PFXCONPACKENT	1 x GateManager Customer Domain / 1 x LinkManager Floating License 1 x LinkManager Mobile License / 20 x SiteManager Extended 5 / 1 x GateManager Premium Access
Pro-face Connect LinkManager License		PFXCONLINK1	1 x Pro-face Connect LinkManager License
Pro-face Connect LinkManager Mobile License		PFXCONLINKM1	1 x Pro-face Connect LinkManager Mobile License
Pro-face Connect SiteManager Basic License		PFXCONSMBSCL	5 x Pro-face Connect SiteManager Embedded Basic License
Pro-face Connect SiteManager Extended 5 Licenses		PFXCONEXTD5	1 x Pro-face Connect SiteManager Embedded EXTENDED license, 5 device agents
Pro-face Connect SiteManager Extended 10 Licenses		PFXCONEXTD10	1 x Pro-face Connect SiteManager Embedded EXTENDED license, 10 device agents
Pro-face Connect GateManager Premium Access *1		PFXCONGMPREM	1 x GateManager Premium Access, Add-on option for Pro-face Connect Essential Pack license (PFXCONPACKESS)
User Statistics *1		PFXCONSTAT	Add-on option for Pro-face Connect Essential Pack license (PFXCONPACKESS) or Pro-face Connect / Enterprise Pack (PFXCONPACKENT)

*1 Not available in all areas, please contact your local office.

Customization and Services

Pro-face is experienced in providing HMI customization services based on specific needs.

Basic menu

Strengthen your brand	Better design suits your machine	Reduce engineering set-up time
Popular Option	Popular Option	Popular Option
Replaced the Pro-face logo with a custom design	Customized overlay	Software kitting and product bundle
Standard delivery date 10~ working days	Standard delivery date 40~ working days	Standard delivery date 10~ working days
Reference price Base Price + 10 EUR~, depends on the design of customer's logo.	Reference price Base Price + 20 EUR~, depends onthe screen size and number of colors required by customer on the overlay.	Reference price Base Price + 30 EUR~, in case of 3rd party software or OS kitting, additional support may be required from customer.

Specific needs

We offer products outside the basic lineup to meet individual needs

Pro-face is experienced in providing HMI customization services based on specific needs

Embedded Camera

Operation log with video and image.

Target

Semiconductor / Electronics

SP5000 Series PFXSP5600TPD + SP5000 Series PFXSP5B41

Snapshot or video recording by switches on the screen

Interface changes

Change the interface to meet customers' needs.

Target

Train / Special Vehicle

SP5000X Series PFXSP5690WAD + SP5000X Series PFXSP5B41

Ethernet(M12) ×1 COM(D-sub 25pin)

Rear Mount

Change the rear mount design to suit specific use or situation.

Target

Food & Beverage Woodworking Machine

GP4100 Series PFXGP4116T2D

Flat on the surface

Pro-face Worldwide offices

01 Global Headquarters

Schneider Electric Japan Holdings Ltd.
Pro-face Japan Tokyo, JAPAN
www.proface.com/ja

02 Australia

Pro-face by Schneider Electric
New South Wales, AUSTRALIA
www.proface.com.au

03 New Zealand

Pro-face by Schneider Electric
Auckland, New Zealand
www.proface.com/en

04 China

Pro-face China International Trading
Shanghai, P.R.CHINA
www.proface.com.cn

05 India

Pro-face by Schneider Electric
Bangalore, INDIA
www.proface.co.in

06 South Korea

Pro-face by Schneider Electric
Seoul, SOUTH KOREA
www.proface.co.kr

07 Singapore

Pro-face by Schneider Electric
SINGAPORE
www.proface.sg

08 Taiwan

Pro-face by Schneider Electric
Taipei, TAIWAN
www.proface.com.tw

09 Thailand

Pro-face by Schneider Electric
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