Basic HMI

Advanced HMI

Industrial PC

Outdoor HMI

Pro-face Product Guide 2021

Find the best HMI from our wide range of products

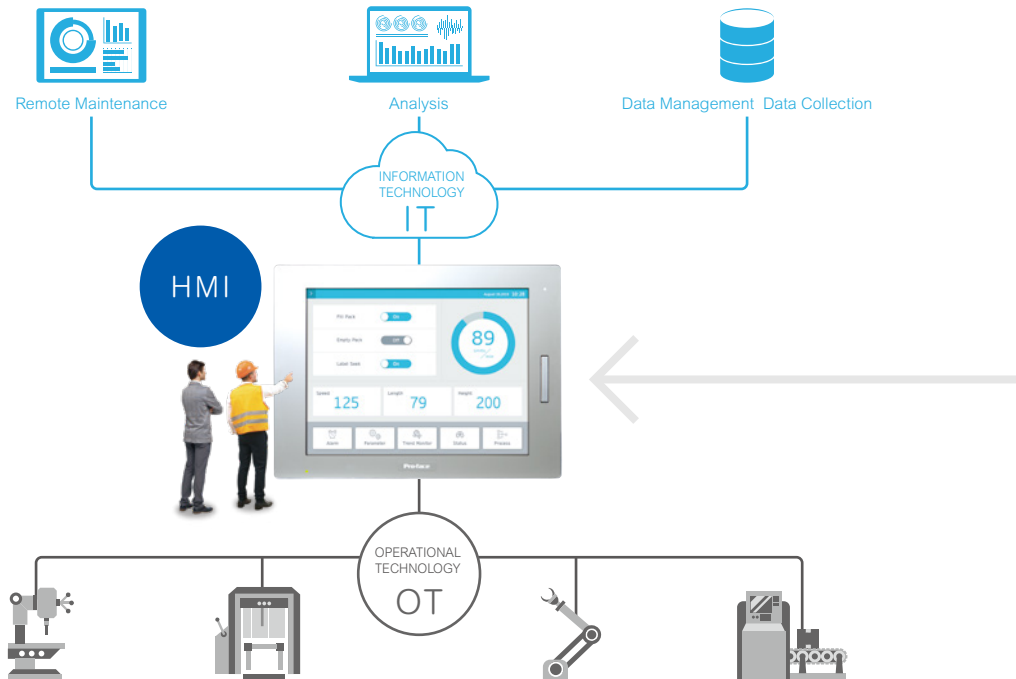proface.com

Pro-face™
by **Schneider** Electric

HMI Centric

Pro-face Industrial IoT solution

Reposition the human in the center of the automation architecture.Interactive and intuitive operations help to make sharp and timely decisions by everyone - everywhere.By connecting to devices from a plethora of manufacturers, we can discover new optimized solutions and configurations with peace of mind on the site.HMI with Visibility, Flexibility, and Reliability opens the window to information for you.HMI Centric Solutions make the best of the human workforce with digital technology.

Remote Maintenance   Analysis   Data Management Data Collection

INFORMATION
TECHNOLOGY
IT

HMI

89

125   79   200

OPERATIONAL
TECHNOLOGY
OT

HMI Centric Customer Story

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

High Flexibility

Development time

75%Down

The usual 3-year development time was reduced by 75% to around 1 year.

Simple Visibility

Operability

200%UP

Operability improved by 200% by using a bright display and remote monitoring.

Strong Reliability

Maintainance time

30%Down

Maintenance efficiency increased by 30% through HMI specialist support.

Learn More

Masashi Ito

High Flexibility
Open Connectivity meets various needs

OT / IT Connectivity
Connect directly to a wide range of devices and networks with various vendors.
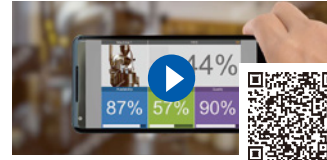

Offer Scalable and Customizable
A wide range of product lineup including modern technologies to meet the specific needs of various customers.

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

Simple Visibility
Empowered human workforce

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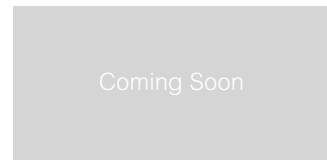Everyone easily operate and access precise information in a fast HMI design.

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.
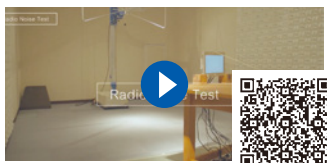
Coming Soon

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.

HMI Centric Architecture

TESTED VALIDATED *HMI Centric Architecture*

The proven solution to challenges associated with designing or developing your HMI project and data handling structures. Get started quickly by combining validated equipment with Pro-face HMI documented samples!

## High Flexibility Collaborative System
NEW

Secure remote access with 4G router without installed local network

Securely access your HMI and connected devices without the need for a dedicated VPN router. Pro-face Connect can enable the encrypted and IEC 62443-3-3 certified architecture, and manage users with different access levels can be managed centrally. Start flexible as well as an economical choice.
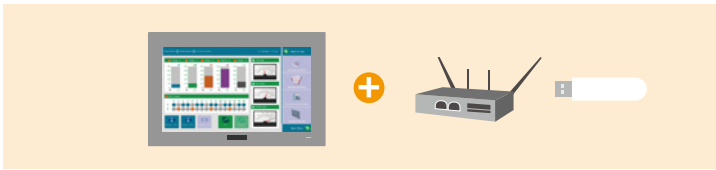
Enabling remote connection on the fly with your smartphone

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.
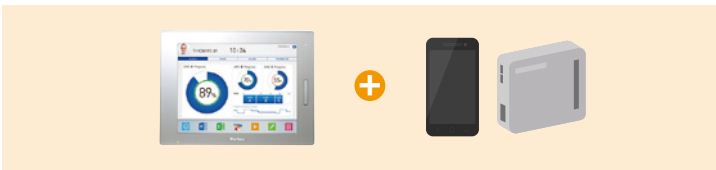
Simple Visibility Increasing Information Value
NEW

Modern maintenance system based on Augmented Reality (AR) with industrial PC and Software solutions.

You can introduce AR(Augmented Reality) technology to your factory quickly and start smart maintenance to improve maintenance operations easily.

EcoStruxure Augmented Operator Advisor (Runtime)
VB Script
BLUE Open Studio

Traceability supported by RFID based identification

Enjoy traceability applications developed easily with program-less communication. The HMI communicates with RFID readers/writers via Modbus. This effective traceability and digitized production preparation.

GP-Pro EX
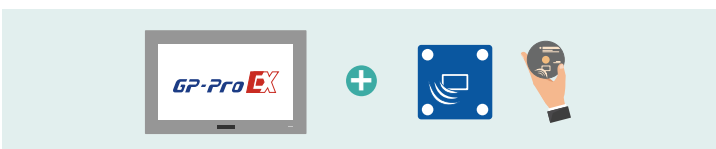
Empower operators to improv your site with a network camera

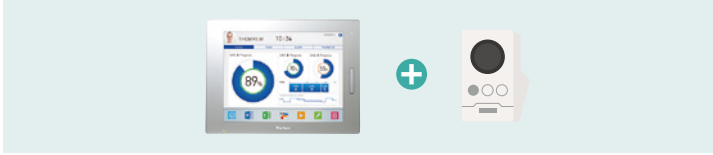Network cameras are attracting a lot of attention as a tool for site improvement, especially in large equipment and multifunctional machines. By capturing scenes that are not noticeable to the naked eye or the cause of errors that cannot be determined by data analysis alone, you will be able to reliably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

Information where you need with BOX HMI without the need of fixed mounted HMI

Use the full performance of your HMI projects on the move with the screenless BOX HMI that can be hidden in the electrical cabinet. Thanks to the Pro-face connectivity, you have access to important information of various equipment on your tablet or smartphone with all the convenience and features that a professional HMI does offer. In larger installations positions can be identified by QR codes making sure that the right information is available and that the right operations can be made.

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.

Strong Reliability Robust and cyber secure Solutions

Reliable access management 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.
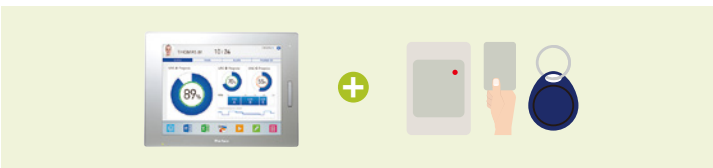
Collaboration

Efficient operation by High integration with IAI ELECYLINDER

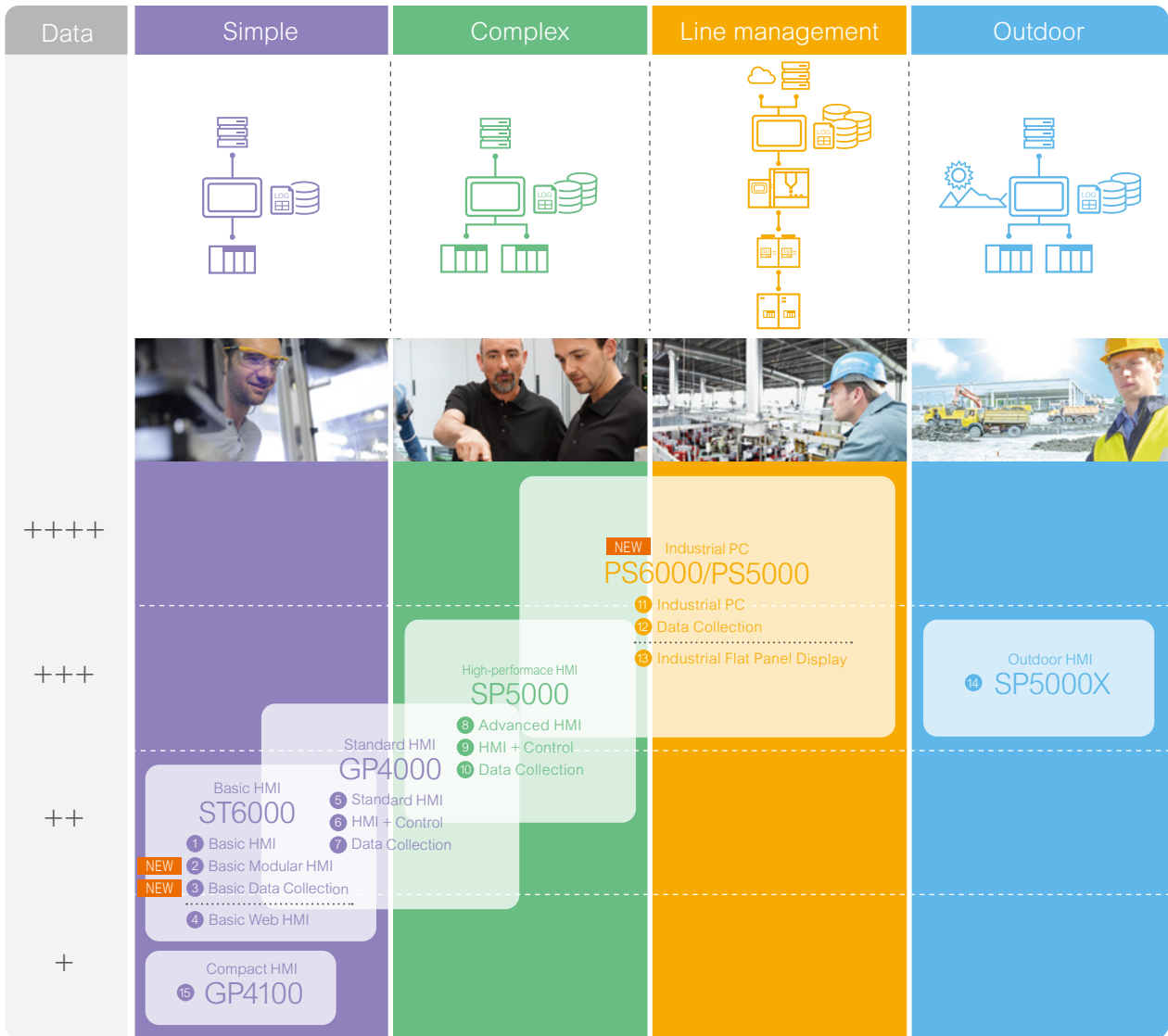Monitor and operate the [Simple Data Setting] screen of Touch panel teaching pendant on Pro-face HMI.

Key values
Save time by Efficient operation:
HMI can be used as a teaching pendant for IAI ELECYLINDER
Operators can monitor not only the status of IAI devices on HMI but also PLC and other controllers status on HMI, too

Pro-face Product Overview

Data	Simple	Complex	Line management	Outdoor

++++

NEW Industrial PC
PS6000/PS5000
11 Industrial PC
12 Data Collection

+++

13 Industrial Flat Panel Display

Outdoor HMI
14 **SP5000X**

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

Standard HMI
GP4000
5 Standard HMI
6 HMI + Control
7 Data Collection

++

Basic HMI
ST6000
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 Basic Modular HMI (STM6000)
3 Basic Data Collection (STM6000 Gateway)
4 Basic 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 Industrial Flat Panel Display
(FP6000 / 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	PS6000/PS5000 **NEW**	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*1	Pro-face Remote HMI	Thin Client License	Pro-face Remote HMI
	Remote connection service	No	Pro-face Connect*1	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

AVEVA

Schneider

Node-RED

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

COST DOWN

TIME SAVE

QUICK DELIVERY

BOX

| Core i7 | Core i5 |
| Celeron | |

Advanced Box

Standard Box
Core i3

Display

| 12" | 15" |

Resistive multi touch

4:3

wide

Capacitive multi touch

| 10" Wide[*1] | 12" Wide | 15" Wide |
| 19" Wide | 22" Wide | |

Options

HDD / SSD
Slot-in design

Interfaces
Slot-in design

PCI / PCIe[*2]
Slots module

*1 10" Wide is available with only Standard Box.
*2 PCI / PCIe is supported for only Advanced Box.

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

Selection guide

Associated software can run on Pro-face Industrial PCs
to make the next stage of your digital transformation.

	Combining with Pro-face Industrial PCs						
	Lite SCADA	Remote Visualization		Plant SCADA and Historian	Augmented Operator	IIoT solution	Secured Remote Connection
Software name	BLUE Line Management Lite SCADA **Open Studio** BLUE Open Studio	Remote HMI Server		AVEVA AVEVA System Platform	EcoStruxure Schneider EcoStruxure Augmented Operator Advisor	Node-RED Node-RED	Pro-face Connet
Software runtime license for Industrial PC <Model No.>	1.5K tags <PFXBOSRT1KLV80> / 32K tags <PFXBOSRT32KLV80> 4K tags <PFXBOSRT4KLV80> / 64K tags <PFXBOSRT64KLV80>	Thin Client License <PFXBOSTC>	Remote HMI Server Licesce <PFXEXRHSLS>	License from AVEVA distributor	Server License	-	Pro-face Connect License 30 days Free Trial <PFXCONFREE30>
PS6000 Advanced / Celeron / Core i5 / Core i7	★★	★★★	★★★	★★★	★★★	★★★	★★★	★★★
	Configured To Order with software licence + software pre-installed*			User install	User install	User install	Installed by default	User install
PS6000 Standard / Core i3	★★★	★★	★★★	★★	★★	★★	★★★	★★★
	Configured To Order with software licence + software pre-installed*			User install	User install	User install	Installed by default	User install
PS5000 / Atom	★★	★	★★★	★	★	★	★★★	★★★
	User install	User install	User install	User install	User install	User install	User install	User install

website

video

manual

configurator

CAD

software

Rich options to meet your needs, easily selected with a new Product Configurator with quick delivery.

PCI/PCIe*1
Slot module

Display

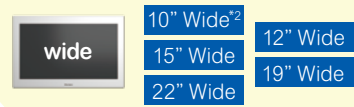Front USB

Resistive Multi-touch
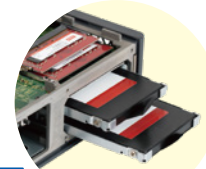
4:3 | 12" | 15"

Capacitive +Glasstop Multi-touch with optimized noise filer

wide | 10" Wide*2 | 12" Wide
15" Wide | 19" Wide
22" Wide

Touch Mode Configuration

Advanced box

HDD/SSD
Slot-in design

2 x RS-232C Isolated	
Product Name	Model No.
M.2 SSD 128GB (Standard Endurance)	PFXYP6M2128L
M.2 SSD 128GB (High Endurance)	PFXYP6M2128
M.2 SSD 256GB (High Endurance)	PFXYP6M2256
M.2 SSD 512GB (High Endurance)	PFXYP6M2512
SSD 128GB (High Endurance)	PFXYP6SSD128
SSD 256GB (High Endurance)	PFXYP6SSD256
SSD 512GB (High Endurance)	PFXYP6SSD512
HDD 1TB	PFXYP6HDD1T

Interfaces
Slot-in design

Interfaces	
Product Name	Model No.
2 x RS-232C Isolated	PFXYP6MPR23P2
4 x RS-232C	PFXYP6MPR23P4
2 x RS422 / 485 Isolated	PFXYP6MPR42P2
16DI / 8DO	PFXYP6MPX16Y8
Ethernet (GbE IEEE1588)	PFXYP6MPETH
Audio	PFXYP6MPAU
4G Cellular for US	PFXYP6MP4GU
4G Cellular for EU / Asia / Japan	PFXYP6MP4GE
EtherCAT	PFXYP6MPECAT
WiFi / Bluetooth	PFXYP6MPWF

16DI / 8DO

2 x RS-232C Isolated

Ethernet (GbE IEEE1588)

Audio

EtherCAT

WiFi / Bluetooth

*1 10" Wide is available with only Standard Box, not supported for Advanced Box. *2 PCI / PCIe is supported for only Advanced Box.
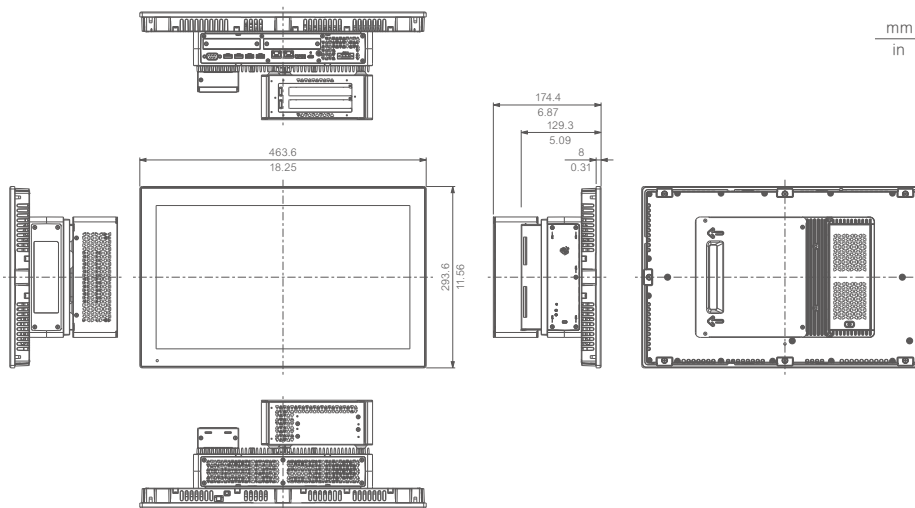
Box module			
	Advanced Box *1		Standard Box
CPU	Core i7	Core i5	Celeron	Core i3
Core	4		2	2
Thread	8		2	4
Graphics accelerator	Intel UHD Graphics 620		Intel UHD Graphics 610	Intel UHD Graphics 620
DIMM	8 - 32GB		4 - 16GB	8 - 32GB
Storage	M.2 SSD x 1 2.5" HDD / SSD x 2			M.2 SSD x 1 2.5" HDD / SSD x 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 *2, RoHS, WEEE			

Display module						
Display Size	12"	15"	10"W *3	12"W	15"W	19"W	22"W
Resolution	XGA (1,024 x 768)		WXGA (1,280 x 800)		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 *4		-				

*1 PCI / PCIe is supported for only Advanced Box. *2 IECEx / ATEX, DNV-GL will be supported in 2022
*3 10" Wide is available with only Standard Box, not supported for Advanced Box. *4 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.
Flexibly change the functions and sizes. The box is a stand-alone component and can be connected to various displays.

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.

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					

website

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.
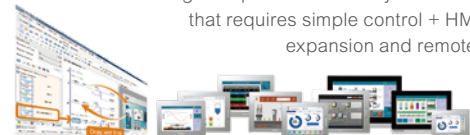
10.181.1.1

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

LAN2 : 10.181.1.2
LAN1 : 192.168.0.1

192.168.0.2   192.168.0.3
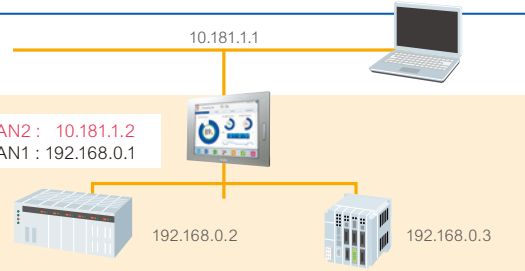
And more...

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.

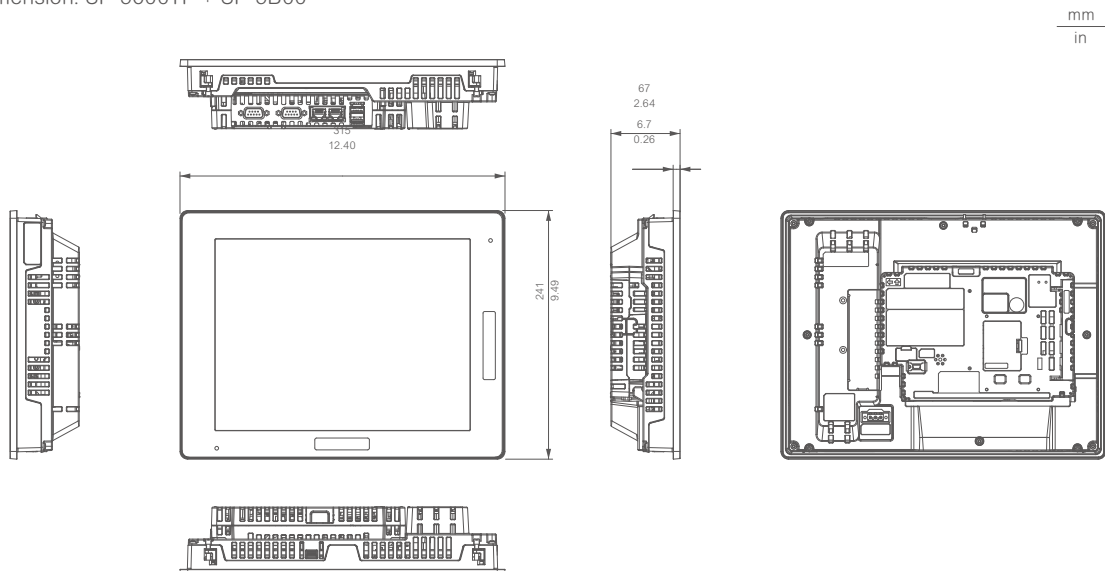| Premium Display						
	SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP
Model	PFXSP5800WCD	PFXSP5700WCD	PFXSP5700TPD	PFXSP5660TPD	PFXSP5600TPD	PFXSP5500TPD
Display Size	19" wide	15" wide	15"	12"		10"
Rated Input Voltage	12...24 Vdc					
Resolution	1,366 x 768 pixels (FWXGA)		1,024 x 768 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, Marie, 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	PFXSP5B412*1 / 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		

*1 PFXSP5B412 will be released in 2022.

Dimension: SP-5600TP + SP-5B00

mm
in

67
2.64

6.7
0.26

315
12.40

241
9.49

Outdoor HMI
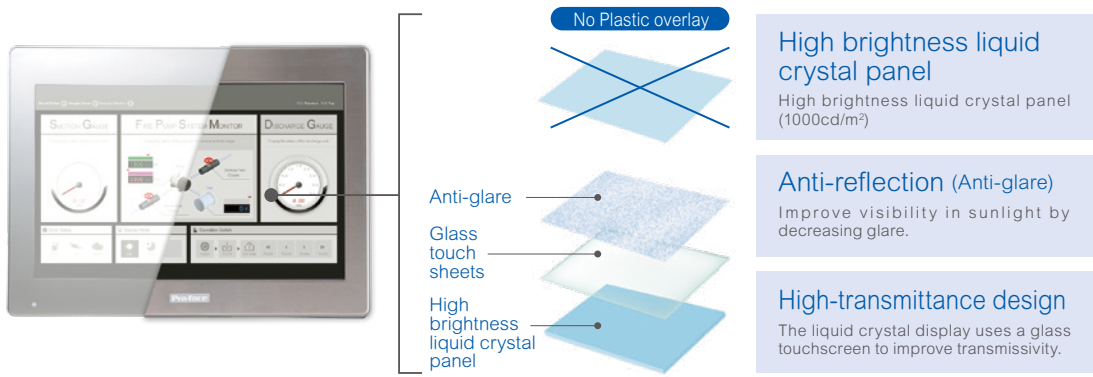
SP5000X Series GP-Pro EX

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

UV

Cut UV rays by 99% (380nm)

Improve longevity

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

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

-30°c   70°c

UL 50E Type 4X Outdoor use

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.

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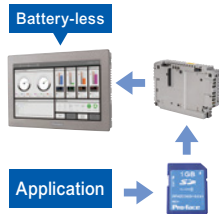Can be used in harsher environments without the need for anti-frost heaters or fans and cooling systems.

* 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.

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

04 Maintainability

Modular structure that is easy to maintain

Battery-less

Application

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.

# 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 2022

Dimension: SP-5690WA + SP-5B90

mm / in

308.5
12.15

230.5
9.07

68
2.68

7.7
0.3
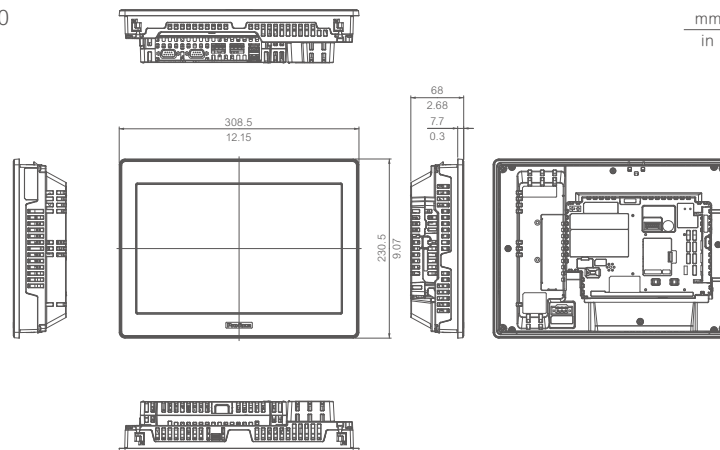
website

video

manual

datasheet

CAD

software
(BLUE)

software
(GP-Pro EX)

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.

715 litter
Tank 2 Current

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.
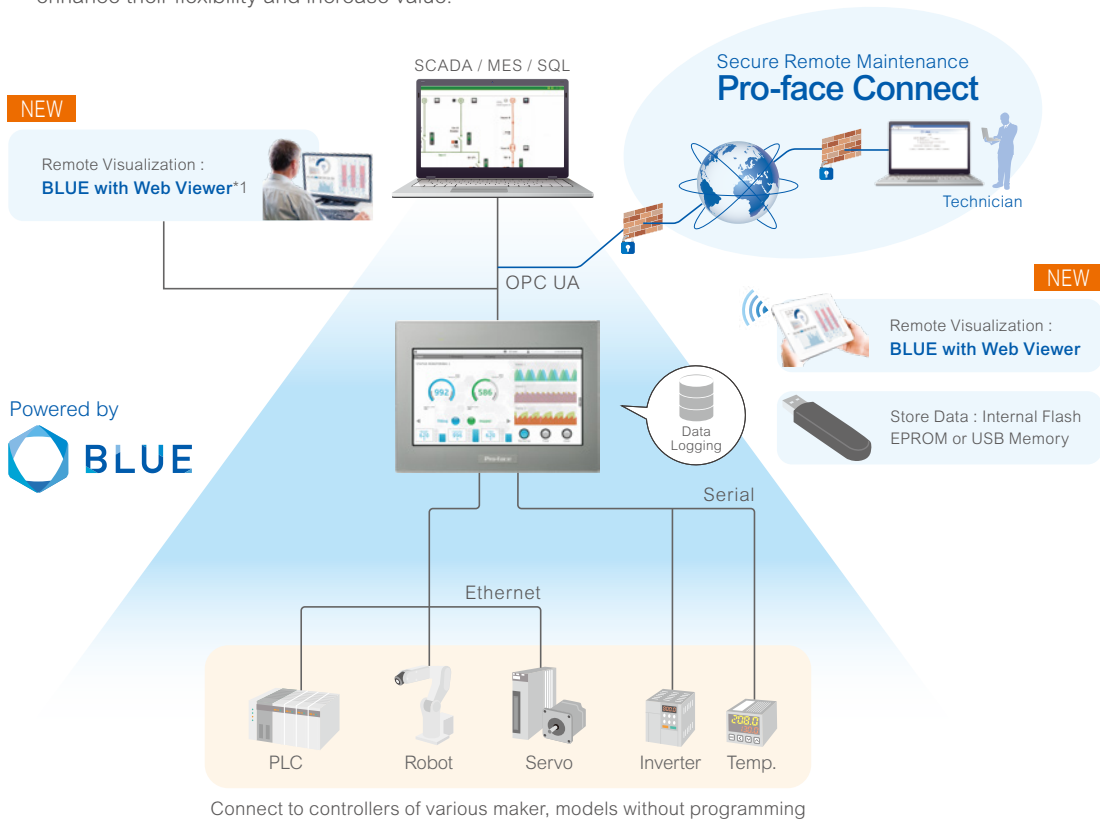
GP-Pro **EX**

GP4000W model(4:3, Wide)
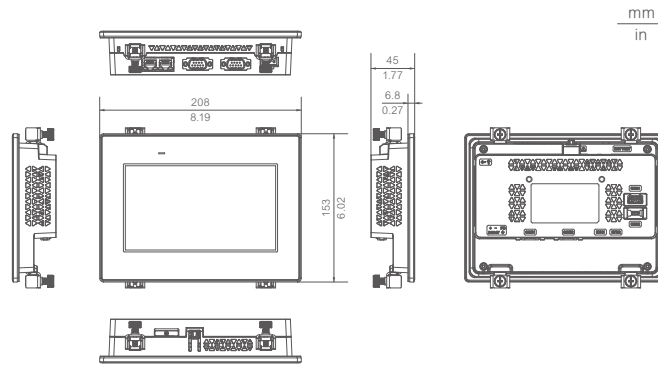
ST6000(Wide)

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

Powered by

BLUE

Data
Logging

Store Data : Internal Flash
EPROM or USB Memory

Serial

Ethernet

PLC   Robot   Servo   Inverter   Temp.

Connect to controllers of various maker, models without programming

Dimension: ST-6400WA

mm / in

|	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				

website

video

manual

datasheet

CAD

software

Basic Modular HMI NEW

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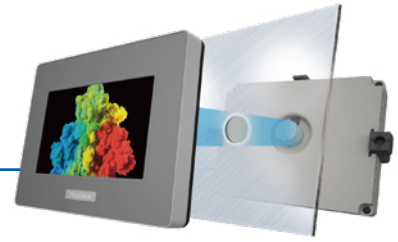
The STM6000 series in the complement of the ST6000 range brings a new level of visualization to the Basic HMI market which no other basic product has accomplished. Also, the product can be installed easily as no tools are necessary and very fast with the unique push-button mounting system through a φ22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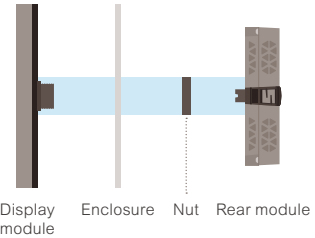
02 Flexible Installation

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.
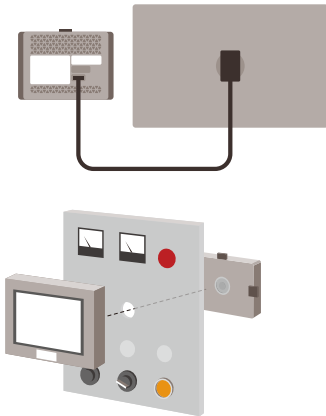
03 Easy Maintenance

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	RS-232C / 485 / 422 x 1 Ethernet x 2 USB (Type A) x 1 USB (micro-B) x 1	
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, ATEX/IECEx*1, Marine (ABS, RINA)*2, RoHS, WEEE	

*1 ATEX/IECEx Zone 2/22 will be acquired in 2022.
*2 DNV-GL will be acquired in 2022.

Dimension: STM-6400WA

201.2
7.92

57.7
2.27

mm
in

137.2
5.4

Basic Web HMI
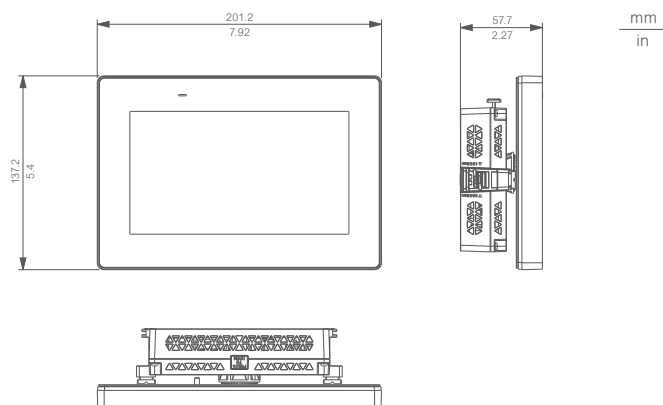
STW6000 Series

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.
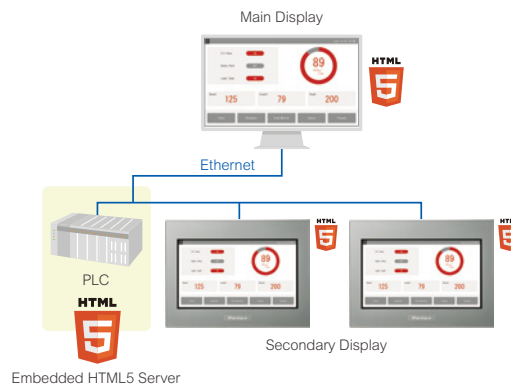
General PC

PLC

Drive

01 Main Display

Main display for simple machine is alternative to basic terminal.

Ethernet

PLC   Drive

Embedded HTML5 Server
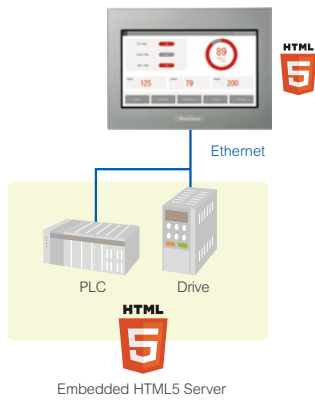
02 Secondary Display

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
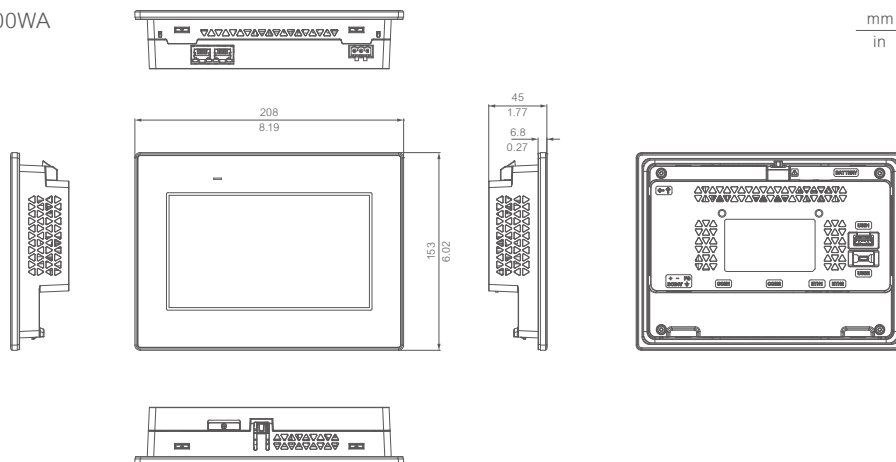
Standard HMI

GP4000 Series   *GP-Pro* EX

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.

Standard

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
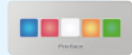
Work-saving for inputting repeated values

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
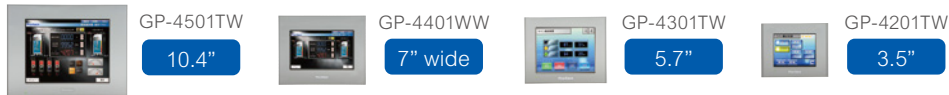· 10BASE-T / 100BASE-TX
· Limited to GP4000 standard models

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

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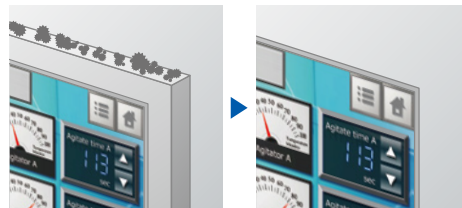
Flat design to protect from mounting surface from dust.
Ideal for medical or food production equipment.

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)
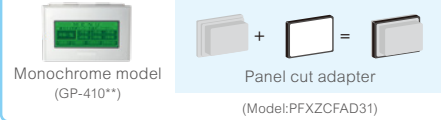
02 Connectivity with a range of devices

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*   GP-4311HT   5.7"

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.
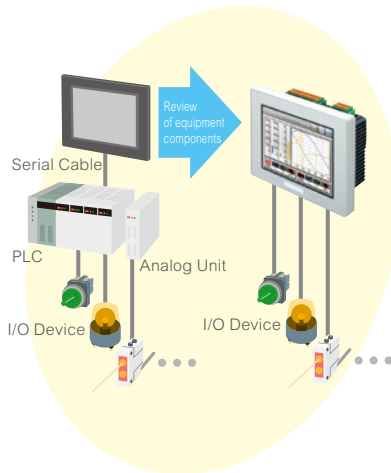
Flexible

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
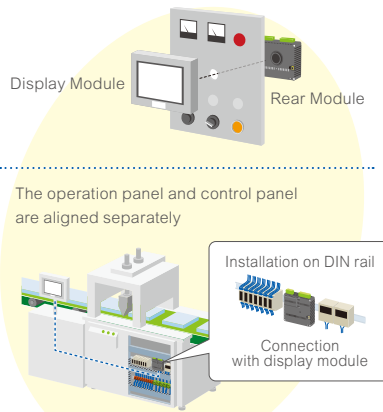
Product Name	Length	Model
Display module /Rear module separation cable	3m	PFXZXMADSM31
	5m	PFXZXMADSM51

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 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

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
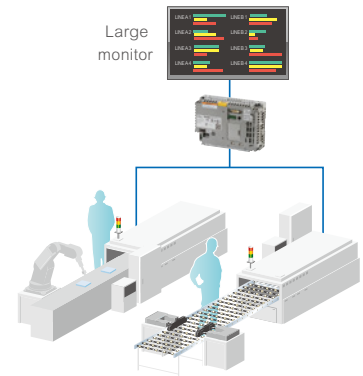

Ethernet

Ethernet

Serial
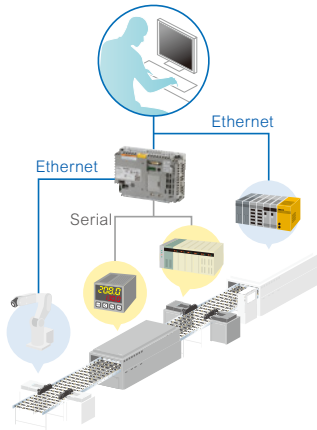
02 Tablet-based on-demand HMI

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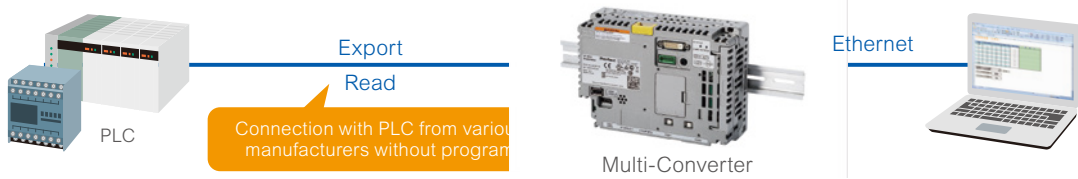
	SP5000 (Open BOX) Model	SP5000 (Power BOX) Model	SP5000 (Standard BOX) Model	LT4000M Model	STM6000 Model
Base module	PFXSP5B41	PFXSP5B10	PFXSP5B00	PFXLM4B01DAC	PFXSTM6B00D
				PFXLM4B01DAK	
				PFXLM4B01DDC	
				PFXLM4B01DDK	
Adapter		PFXZCDADEXP1		PFXZXMADSA1	
Software		GP-Pro EX			BLUE

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

Flat Panel Monitors

Improve your machine's operativity

Pro-face Flat Panel Monitors are industrial PC monitors
with a touch panel mounted and offered solutions for difficult installation due to
a harsh production-work site environment or limitation of space.

Fits the most suitable place for machine operation by installing separately.

Improve operation efficiency with a secondary display.

BOX PC — Industrial Flat Panel Monitors

Panel PC — Industrial Flat Panel Monitors

Distance to connect (5m)

Host	Cable	Display Size	Display
PS6000 Series PS5000 Series (Only Windows 10) Windows OS-installed PC (Only Windows 10)	DVI (video), USB (touch)	22" Wide	FP-6900WC
		19" Wide	FP-6800WC
		15" Wide	FP-6700WC
		12" Wide	FP-6600WC
		10" Wide	FP-6500WC
		15"	FP-6700TM
		12"	FP-6600TM

Distance to connect (100m)

Host	Cable	Display Size	Display	Supported Touch Control	Expansion Adapter
PS5000 Series	Ethernet (video, touch)	22" Wide	PS-D5900WP	Max 4 Displays	Display Adapter
		19" Wide	PS-D5800WP		
		15" Wide	PS-D5700WP		
		12" Wide	PS-D5600WP		
		15"	PS-D5700TA		
		12"	PS-D5600TA		
PS5000 Series (except PS-5700T / 5600T) SP5000 Series SP-5B41 Windows OS-installed PC		19" Wide	SP-5800WC	Max 3 Displays	Multi Display Adapter
		15" Wide	SP-5700WC		
		15"	SP-5700TP		
		12"	SP-5600TP		
		10"	SP-5500TP		
		12"	SP-5600TA		
		12" Wide	SP-5600WA		
		10" Wide	SP-5500WA		
		7" Wide	SP-5400WA		

Hardware

BLUE Line Management Lite SCADA

Open Studio VERSION UP
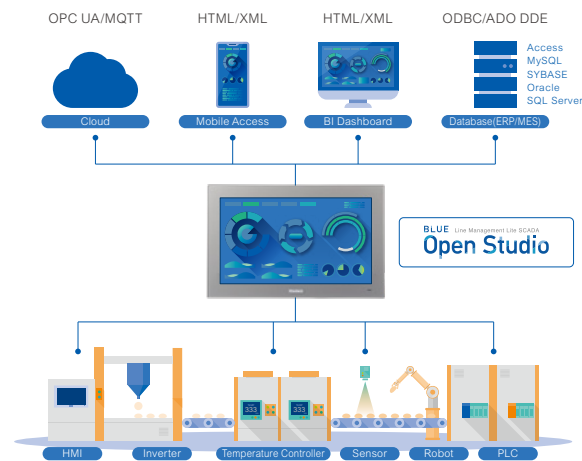
FDA
21 CFR PART 11

Flexible software for your need

Pro-face BLUE Open Studio is a development and runtime software that incorporates various 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.
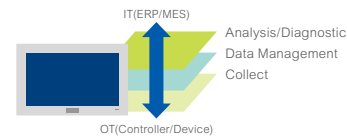
Trends

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.
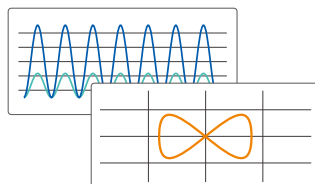
Custom Widget

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.
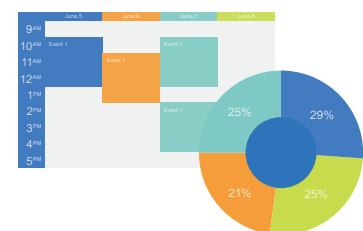
Historian

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
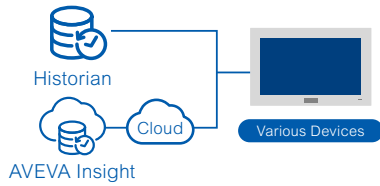
BLUE Open Studio
Import Wizard

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

Automatically converting

BLUE Line Management Lite SCADA
Open Studio

BLUE Open Studio
Thin Client

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	Sticker
BLUE Open Studio for Line Management Plus	1 License	32,000	PFXBOS*T32K*V80	Sticker
BLUE Open Studio for Line Management	1 License	4,000	PFXBOS*T4K*V80	Sticker
BLUE Open Studio for Machine Control	1 License	1,500	PFXBOS*T1K*V80	Sticker
BLUE Open Studio Thin Cliant	1 License	-	PFXBOSTC	Sticker
BLUE Open Studio Import Wizard	-	-	PFXBOSTK	Sticker
BLUE Open Studio USB Hard key	-	-	PFXBOSUSBL	USB

PS6000 + BLUE Open Studio

Hardware and software association to improve your business

1 Full support & Integration on HW, SW and OS

Our dedicated support team ensures that you have a single contact window to resolve any issues

Integration is easy across our hardware, software and operating systems so commissioning is completed even faster

2 Save time & resources on validation and commissioning

PS6000 Series and BLUE Open Studio configured-to-order association is ready to use after our extensive testing and validation process, so you can save time, money and resources and have your application up and running

3 Sustainable supply & compatibility

Enjoy one supplier for your software and hardware requirements

Stress free replacement with ongoing development to meet industry requirements

Save Time   **Save Money**

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.

715 litter
Tank 2 Current

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.

°F   No Programming   °C

Unit   Scale   Range   Expresion
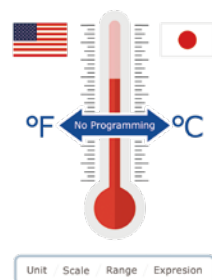
Connected & Secured

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.
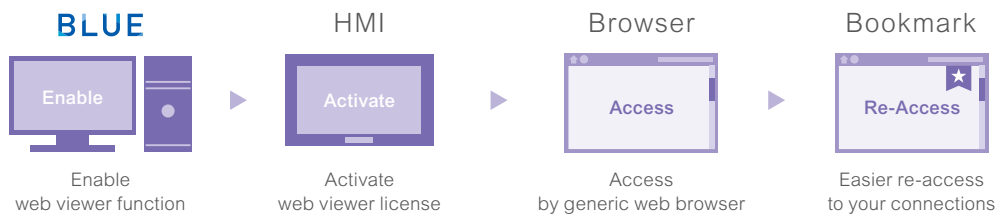
BLUE
Web
Viewer

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

Software

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
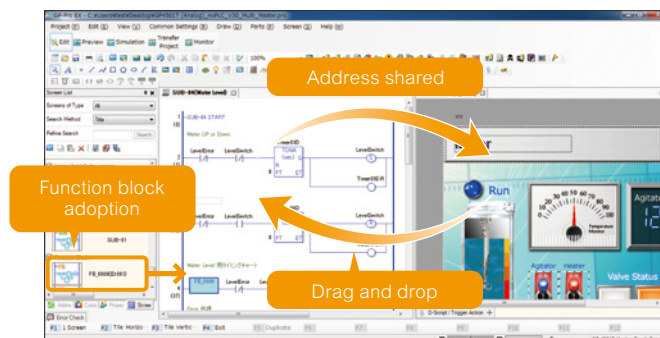
Runtime engine WinGP

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.

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
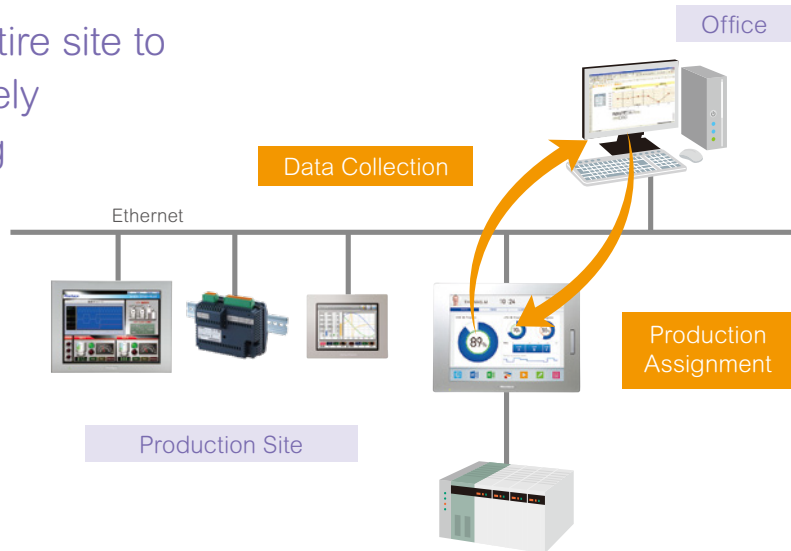
Remote Access

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
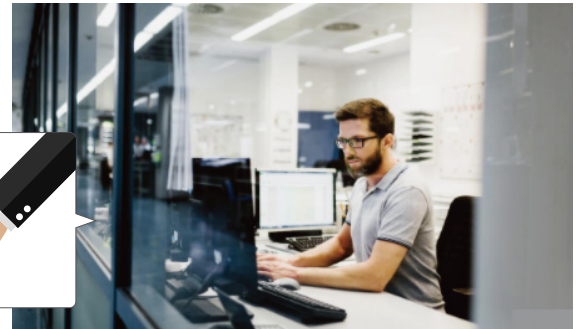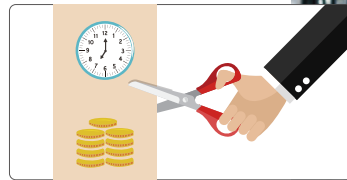
Pro-face Connect

VERSION UP

Connect and Go

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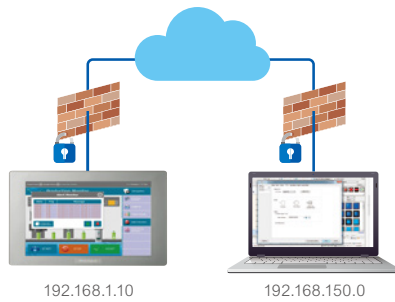
Small initial cost

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.
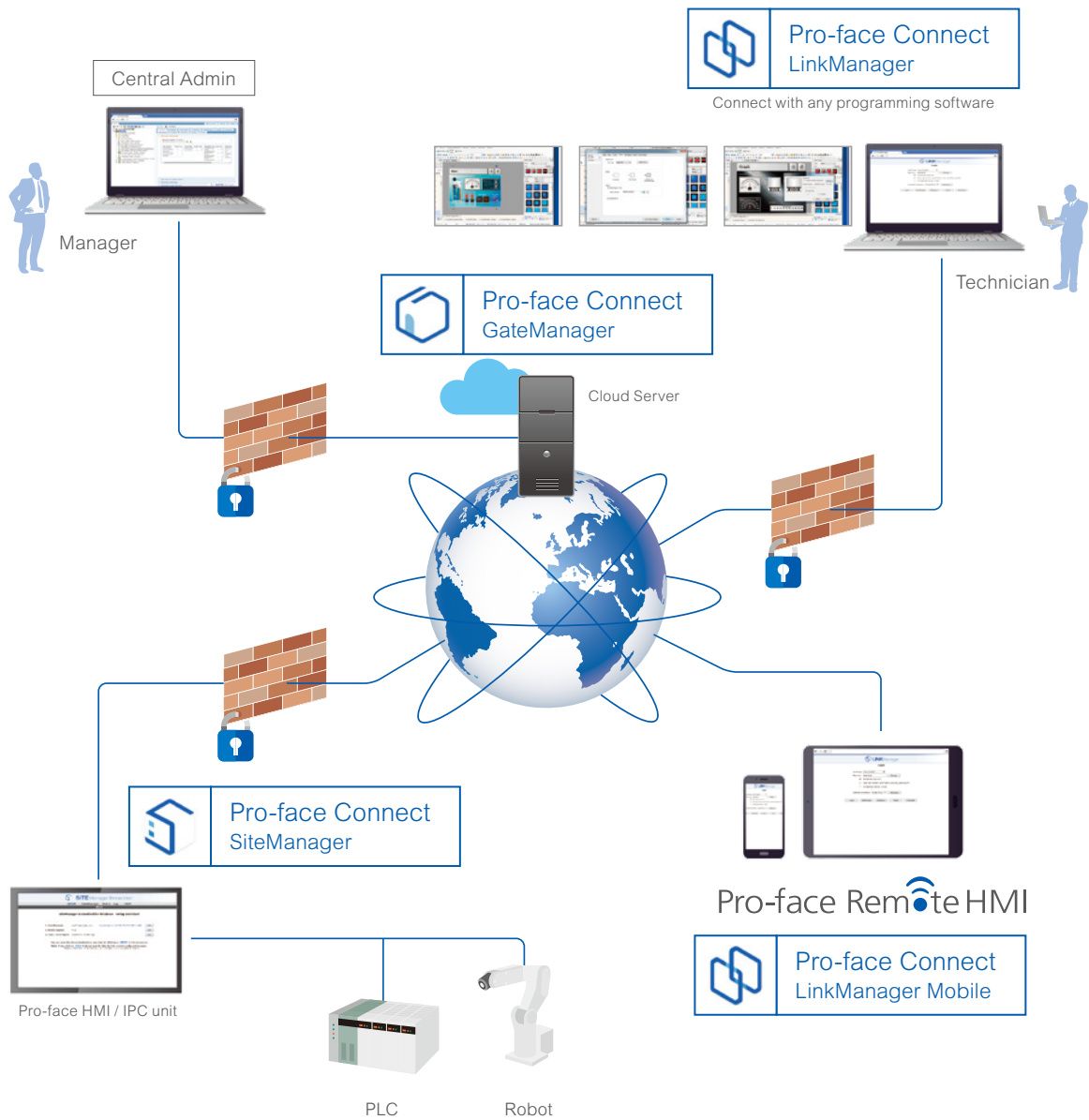No man-hours to change an IP address.

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

Software

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 Rem❶te 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)

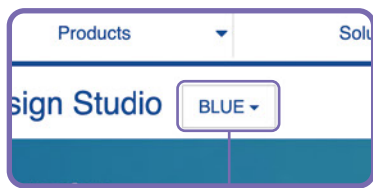*1 Not available in all areas, please contact your local office.
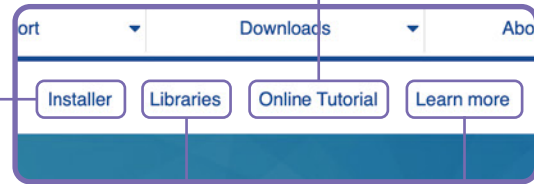
website

HMI Design Studio

Begin a new user experience with Pro-face HMI

HMI Design Studio is a creative yet easy-to-use website that
helps you and your team to create HMI Applications

Online Tutorial

Learn skills to make yourself
the best interface.
Join today to get access to
various types of courses.

Software Selection

BLUE   or   BLUE Open Studio

Installer

Download software
(Full Installer / Trial Mode).

Libraries

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

Learn more

Knowledge base
and community.
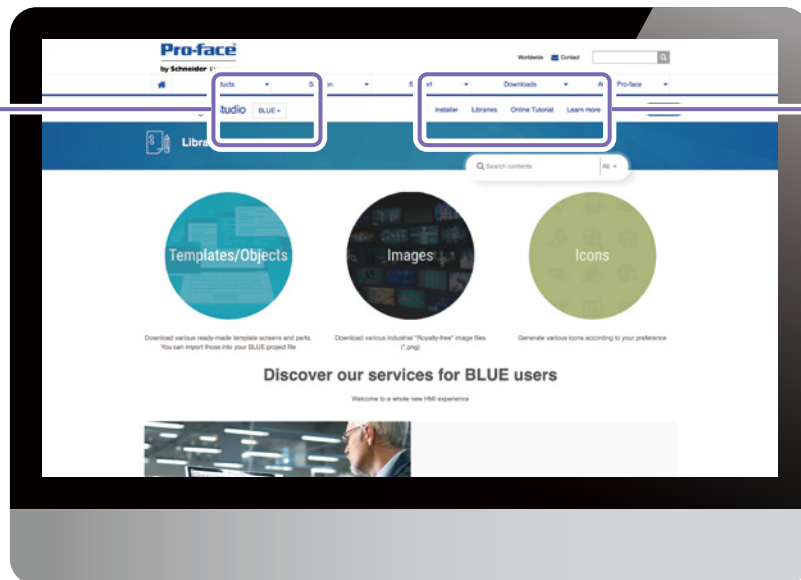
Template / Objects

Download various ready-made template screens and parts. You can import those into your BLUE and Blue Open Studio project files.

Intuitive layout template
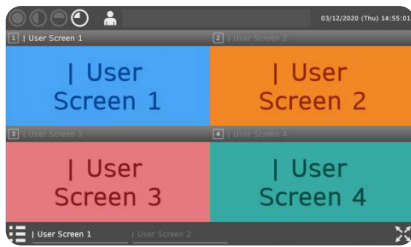
`BLUE`

Dock Panel (Bottom)

`BLUE`

Alarm Control
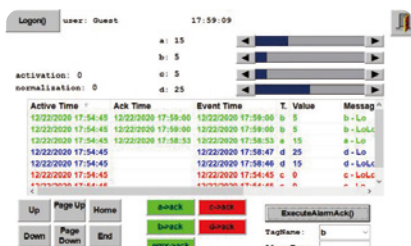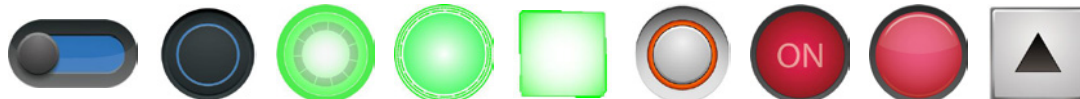

`BLUE Open Studio`

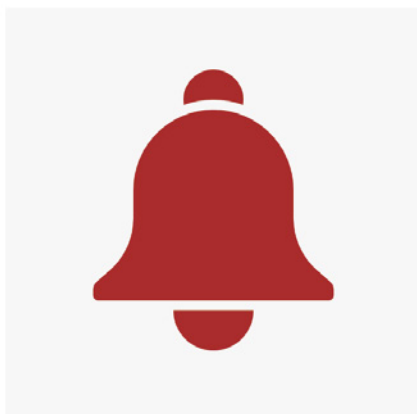### Database

`BLUE Open Studio`

Images   `BLUE`   `BLUE Open Studio`

Download various industrial "Royalty-free" image files (*.png)

Icons   `BLUE`   `BLUE Open Studio`

Generate various icons according to your preference

#Caution #Nortification

Customization and Services

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

Basic menu

| Inquiry | → | Estimation | Adjustments → | Order | → | production | → | Delivery |

1st Order

From 2nd Order

Kitting	Screen Protection Sheet / Environment Cover Enclose accessories in the package Screen data	GP-Viewer license keycode Customer's OS image Network address
Custom Overlays / Logos	Remove original logo Customer's logo (sticker type) Customer's logo (printed on overlay)	Change the color of overlay Add labels
Coating	Coat PCBAs	

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
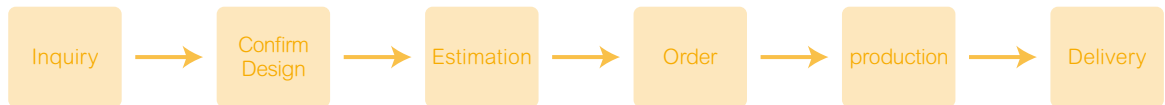
| Inquiry | → | Confirm Design | → | Estimation | → | Order | → | production | → | Delivery |

| **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
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
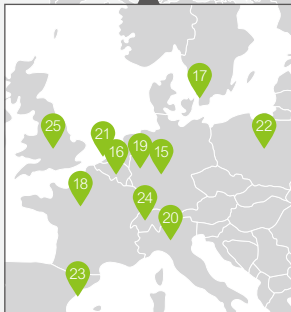
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