

Pro-face

by Schneider Electric

Selection Guide



High-performance HMI



Standard HMI and Touch PLC



Industrial PC

SP5000 series

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

Premium display

[Multi-touch] [Auto-scaling] [Brightness sensor] [Front USB (Type A & mini B)]



	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"	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	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	

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

Able to use ladder programming tools...

02 Simple activation by inserting cards

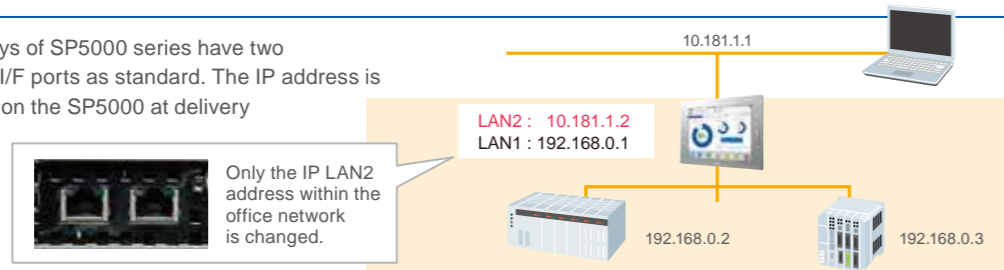
Display data is scalable to fit multiple sizes of monitors, which can be applied to new equipment for mass production. There is no need for on-site data transfer, because SP5000 models are activated when the SD card is inserted.



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

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.

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.



Advanced display



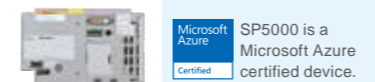
	SP-5600WA	SP-5500WA	SP-5400WA
Model	PFXSP5600WAD	PFXSP5500WAD	PFXSP5400WAD
Display Size	12" wide	10" wide	7" wide
Rated Input Voltage	12...24 Vdc		
Resolution	1,280 x 800 pixels(WXGA)		800 x 480 pixels(WVGA)
Touch Panel Type	Resistive Film (analog)		
Interface			
Structure	IP66F, IP67F		
External Dimensions	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 D36mm (W8.02 x H5.85 x D1.42 in.)
Panel Cut Dimensions	W295 x H217mm (W11.61 x H8.54 in.)	W255 x H185mm (W10.04 x H7.28 in.)	W190 x H135mm (W7.48 x H5.31 in.)
Others			
Custom (Coating)	Yes		
Custom (Front Color Bezel)	Yes		

The modular design of the SP5000 allows various combinations of components.

Easy to maintain and replace

Two types of box modules with high performance

Compatible for use with Windows apps in specific systems



Open Box module SP-5B41

Microsoft Azure Certified
SP5000 is a Microsoft Azure certified device.

Reliable real-time OS installed in HMI



Power Box module SP-5B10

Expansion units available
CANopen Master Unit
FLEX NETWORK Master Unit
PROFIBUS DP Slave/MPI Unit

	SP-5B41	SP-5B10
Model	PFXSP5B41	PFXSP5B10
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
External Dimensions	W188 x H131 x D35mm (W7.4 x H5.16 x D1.38 in.)	
Connectable Devices	4	
Custom (Coating)	Yes	

Standard HMI

GP4000 series

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



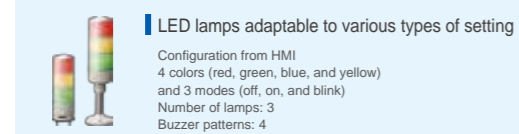
Data in GP-PRO/PBIII for Windows or later is convertible using project converter. Smooth transition to the latest models.



USB expansion options unique to Pro-face

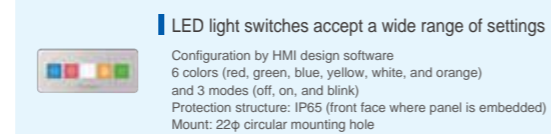
Reduce excess inventory of indicator lights

EZ Tower Light Model:PFXCZCETWHA1 (tube mounting with fixing plate)
Model:PFXCZCETWW1(base mounting)
With this single model, multiple colors and sounds can be set. Capable of indicating the state of equipment.



Combining switch and lamp

EZ Illumination Switch Model:PFXCZCEUSG1
Improve visibility with 6-color illumination.
Reduce man-hours for control panel installation and wiring



Work-saving for inputting repeated values

EZ Numpad Model:PFXCZCEUKB1
Reduces screens needed for value input

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



Even more improved security

EZ Fingerprint Recognition Unit Model:PFXCZCEUSS1
Prevents spoofing by changing from ID / PW to fingerprint authentication! Combination with operation logs enables accurate tracking of access.

- Register up to 100 people
- Protection: IP65
- Mount: 22φ circular mounting hole
- Error rate: 0.1% or less



Adding second LAN port with independent IP address

EZ LAN Adapter Model:PFXCZCEUUE1
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



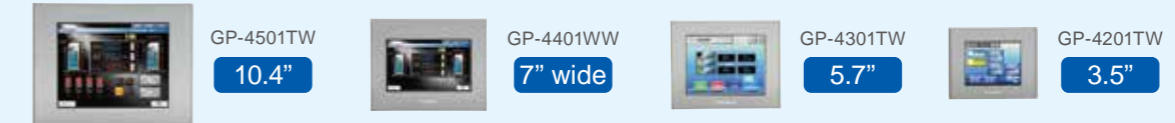
Also can be used with Pro-face products other than GP4000 series.

GP4000 Standard models Wide range from standard to customized 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	100...240 Vac	24Vdc	24Vdc			
Resolution	800 x 600pixels (SVGA)		640 x 480pixels (VGA)		320 x 240pixels (QVGA)			
Touch Panel Type	Resistive Film (analog)				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 (W6.14 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		Product Name:GP-4521T Model:PFXGP4521TAA		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)

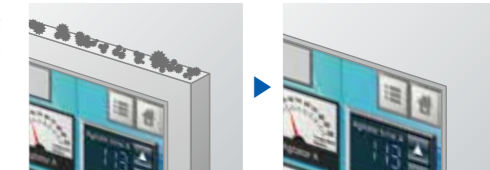


	GP-4501TW	GP-4401WW	GP-4301TW	GP-4201TW
Model	PFXGP4501TADW	PFXGP4401WADW	PFXGP4301TADW	PFXGP4201TADW
Display Size	10.4"	7"wide	5.7"	3.5"
Rated Input Voltage	24Vdc			
Resolution	640 x 480pixels (VGA)	800 x 480pixels (WVGA)	320 x 240pixels (QVGA)	
Touch Panel Type	Resistive Film (analog)			
Application 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 (W4.67 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 environment



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

GP4100 Compact model

High resolution and full color in a small size

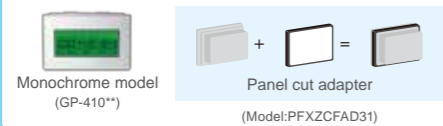


01 Small-sized HMI, but no compromise on visibility or operability

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

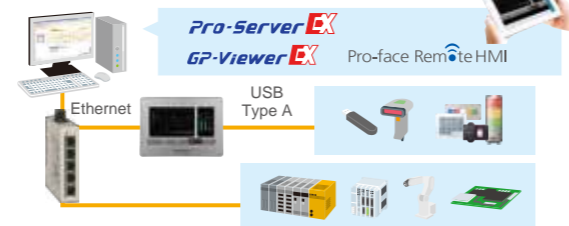
And more... **65,536** color display

Panel cut same as monochrome model



02 Connectivity with a range of devices

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



	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			

GP4000M Modular model

Easily mounted on a control panel and replaced for maintenance through a φ22 mm circular hole.



	GP-4301TM	GP-4201TM
Model	PFXGM4301TAD	PFXGM4201TAD
Display Size	5.7"	3.5"
Rated Input Voltage	24Vdc	
Resolution	320 x 240 pixels (QVGA)	
Touch Panel Type	Analog	
Application Memory	8MB	
Backup Memory	NVRAM 128KB *1	
Interface	RS-232C/422/485 x 1 Ethernet x 1 USB(Type A) x 1 USB(mini B) x 1	
Structure	IP65F	
External Dimensions	Display module: W163 x H129.4 x D17.5mm (W6.41 x H5.09 x D0.64 in.) Rear module: W118 x H98.1 x D40.1mm (W4.04 x H3.88 x D1.57 in.)	Display module: W97.6 x H80 x D16.2mm (W3.84 x H3.14 x D0.63 in.) Rear module: W118 x H98.1 x D40.1mm (W4.04 x H3.88 x D1.57 in.)
Panel Cut Dimensions	φ22.5mm	
Connectable Devices	2	

*1 GP4000M does not maintain clock data because backup battery is not installed. It is necessary to read the clock data externally connected

GP4000H Handy model

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	640x480 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 3m GP3000H-CBLS-3M Soft-type Direct-connect Cable 5m GP3000H-CBLS-5M 10m GP3000H-CBLS-10M Hard-type Direct-connect Cable (with connector) 10m GP3000H-CBLHD-10M 3m GP3000H-CBLS-3M Soft-type Direct-connect Cable (with connector) 5m GP3000H-CBLS-5M 10m GP3000H-CBLS-10M Conversion Adapter AGP3000H-ADPCOM-01

Touch PLC

LT4000M series

Hybrid display with control function

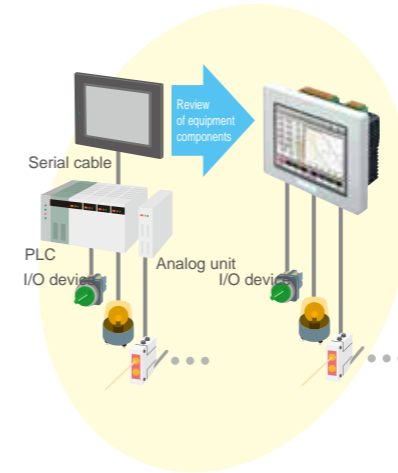
Since the release of the world's first controller with display (CGP model) in 1996, our products have gained a reputation for enabling customers to save space as well as equipment costs.



Flexible

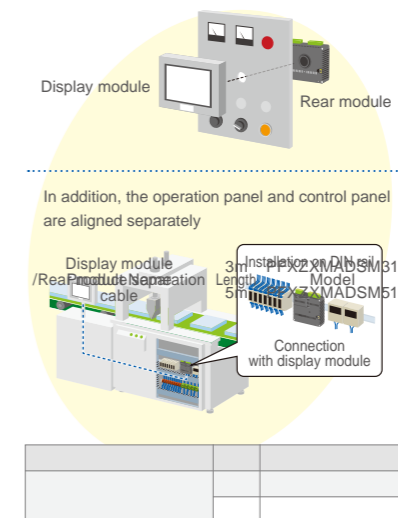
01 Simple design without PLC

Connectivity with a range of devices



02 Easy to create control panels

Easily retrofittable, requiring only 22φ circular mounting holes



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



Model	LT-4301TM		LT-4201TM	
	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	NVRAM 128KB			
Logic program area	FLASH EPROM 132KB			
Variable area	NVRAM 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 x H129.4 x D17.5mm(W6.42 x H5.09 x D0.69 in.) Rear Module:W128 x H108 x D60.15mm(W5.03 x H4.25 x D2.36 in.)		Display Module:W97.6 x H80 x D16.2mm(W3.8 x H3.1 x D0.63 in.) Rear Module:W128 x H108 x 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 x2 - Temperature input x2 included)	0 points	4 points (Voltage/Current x2 - Temperature input x2 included)
Built-in AIO (Output)	0 points	2 points (Voltage/Current x2)	0 points	2 points (Voltage/Current x2)

PS5000 series



IPC with highest level of performance in the industry.

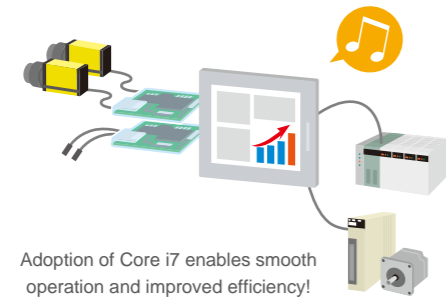
20 years after releasing the world's first industrial computer, a new model is available with the highest level of performance and reliability in the industry. Two types are available for different applications. Combined with Pro-face software, we can provide solutions beyond the boundaries of the standard IPC.

Powerful Solution

01 High Performance

The PS5000 series achieves a 280% performance increase compared to conventional models. It also demonstrates its power when used with high-spec equipment that require high-speed processing.

For machines requiring high performance and high accuracy...

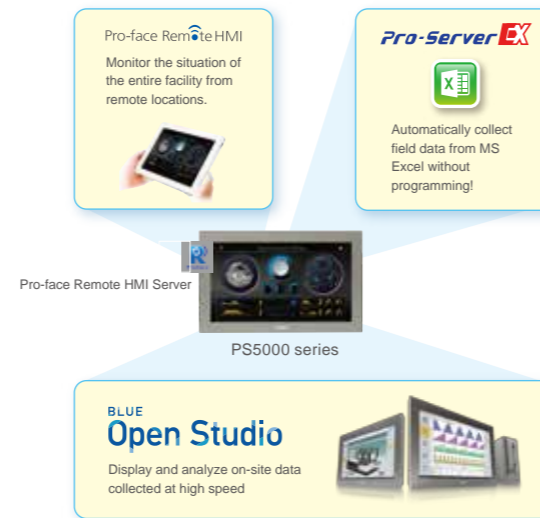


Adoption of Core i7 enables smooth operation and improved efficiency!

Microsoft Azure Certified
PS5000 is a Microsoft Azure certified device. Please contact us regarding supported models.

02 Integration with software for IoT

A wide range of software applications is available to easily gather and utilize any data to be visualized among various sources (big data).



03 Reliable operation

Remote System Status Monitoring and Control



CPU load percentage, temperature, memory, S.M.A.R.T., etc.
Power shutdown is also possible with a smartphone

Fanless models for all devices



There is no need to change the fan on a regular basis, thus reducing maintenance costs and management effort.

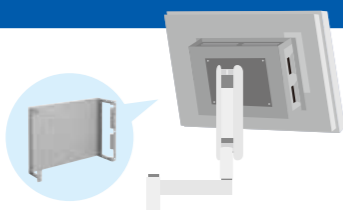
HDD mirroring



Convenient hot-swapping for HDD replacement (when using soft mirroring)

VESA installation

Options to install VESA arms are available. No need to produce or buy separate housing.



Flexible installation without panel

Several options are available to fit the required interface. Choose from options such as Gigabit Ethernet, DIO and serial for even more functions.



Modular Type

The modular type consists of a box with a display module ranging from 15 to the ultra-large 22 inch screen. The functions and sizes are easy to change.



- 22" wide
- 19" wide
- 15" wide
- 12" wide
- 15"
- 12"
- BOX

	PS-5900W	PS-5800W	PS-5700W	PS-5600W	PS-5700T	PS-5600T	PS-5000B
CPU	Core i7 1.7GHz / Celeron 1.6GHz						
Display Size	22"wide	19"wide	15"wide	12"wide	15"	12"	-
Rated Input Voltage	100...240Vac / 24Vdc						
Resolution	1,920 x 1,080pixels (Full HD)	1,366 x 768pixels (FWXGA)	1,280 x 800pixels (WXGA)	1,024 x 768pixels (XGA)	1,024 x 768pixels (XGA)	1,920 x 1,080pixels (Full HD)	-
Touch Panel Type	Capacitive (5 simultaneous touch)			Resistive Film (single touch)			
Main Memory	Core i7 Model : DDR3L(8GB / 16GB) Celeron Model : DDR3L(4GB / 8GB)						
Supported OS	Win7(64bit) / Win8.1 Industry(64bit) / Win10 IoT Enterprise(64bit) / WEST7(32/64bit)						
Main Storage	HDD(500GB / 1TB) / SSD(80GB / 180GB / 240GB) / CFast(32GB)						
Serial ATA	HDD or SSD x 2, CFast x 1, mSATA x 1						
Expansion slot	0/2 slots						
Interface	RS-232C/422/485 x 1 Ethernet x 2 USB(Type A) x 4 Display Port x 1 Internal Expansion x 2		RS-232C/422/485 x 1 Ethernet x 2 USB(Type A) x 5 Display Port x 1 Internal Expansion x 2		RS-232C/422/485 x 1 Ethernet x 2 USB(Type A) x 4 Display Port x 2 Internal Expansion x 2		
Structure	IP66						

Slim Type

This integrated panel offers a drastically slimmer profile with less wasted space, while retaining the high performance. The optimized design is ideal for equipment that needs to save space.



- 19" wide
- 15" wide
- 10" wide

	PS-5811W	PS-5711W	PS-5701W	PS-5501W	PS-5821W (Enclosed Model)
CPU	Core i3 1.7GHz		Atom 1.75GHz		
Display Size	19"wide	15"wide	15"wide	10"wide	19"wide
Rated Input Voltage	100...240Vac / 24Vdc				24Vdc
Resolution	1,366 x 768pixels (FWXGA)		1,280 x 800pixels (WXGA)		1,366 x 768pixels (FWXGA)
Touch Panel Type	Capacitive (5 simultaneous touch)				
Main Memory	DDR3(8GB)		DDR3(4GB)		
Supported OS	Win7(64bit) / Win8.1 Industry(64bit) / Win10 IoT Enterprise(64bit) / WEST7(32/64bit)				
Main Storage	HDD(500GB / 1TB) / SSD(80GB / 180GB / 240GB) / CFast(32GB)				HDD(500GB / 1TB) / SSD(80GB / 180GB / 240GB)
Serial ATA	HDD / SS-D x 1 CFast x 1				HDD / SSD x 1
Expansion Slot	-				
Interface	RS-232C/422/485 x 2, Ethernet x 2 USB(Type A) x 2, HDMI x 1 Speaker Output x 1 Internal Expansion x 1		RS-232C x 1 RS-232C/422/485 x 1 Ethernet x 2 USB(Type A) x 2 Internal Expansion x 1		RS-232C x 1 Ethernet x 2 USB(Type A) x 1 Internal Expansion x 1
Structure	IP66				

Multi-Converter



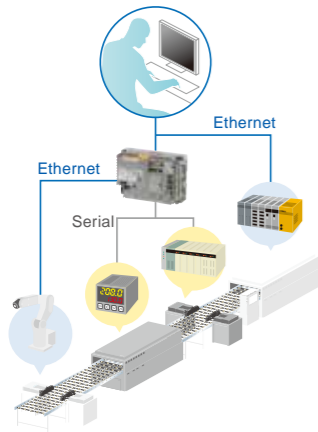
Smart Gateway

Step Towards IoT

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

01 Merge data from different devices

Unify protocols and collect data efficiently



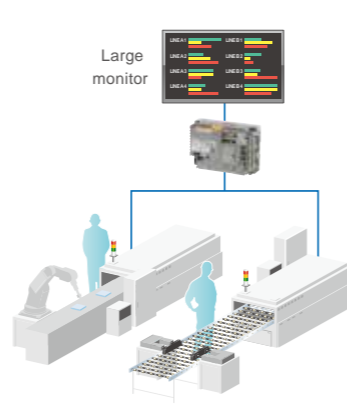
02 Tablet-based on-demand HMI

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

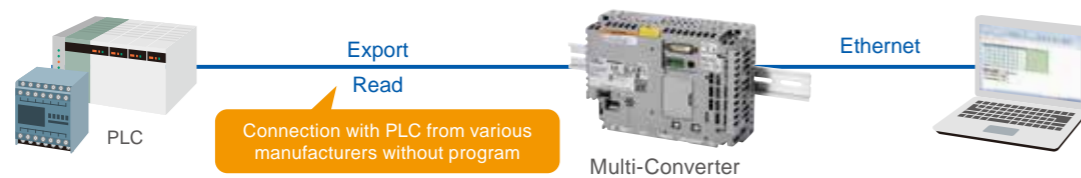


03 HMI for ANDON (Large-size monitor)

Optimize work by sharing production status.



04 Easily collect PLC data by network or USB memory



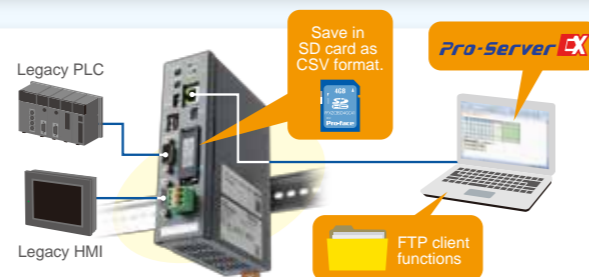
	SP5000 (Open BOX) Model	SP5000 (Power BOX) Model	LT4000M Model	GP4000M Model
Base module	PFXSP5B41	PFXSP5B10	PFXML4B01DAC PFXML4B01DAK PFXML4B01DDC PFXML4B01DDK	PFXGM4B01D
Adapter	PFXZCDAEXP1		PFXZXMAASA1	

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

Data collection device

Pro-face IoT Gateway

Even if the serial communication I/F is occupied, data can be collected by relaying between devices. Connectable without changing the program of the HMI and PLC. Data can be collected while maintaining communication of old devices.



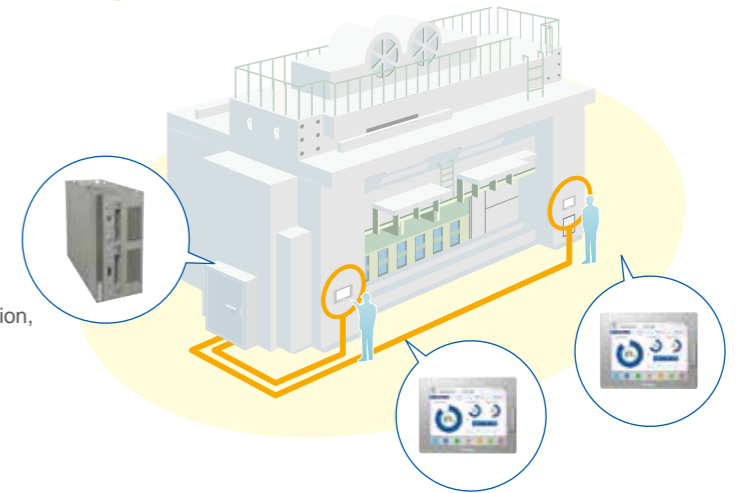
For checking in multiple places

For separating from BOX PC (5 m, 100 m)

Screens can be expanded with FA 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 even when wearing gloves.

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

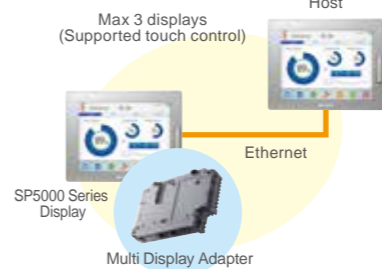


	FP-5700TPD	FP-5600TPD
Model	PFXFP5700TPD	PFXFP5600TPD
Display Size	15"	12"

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

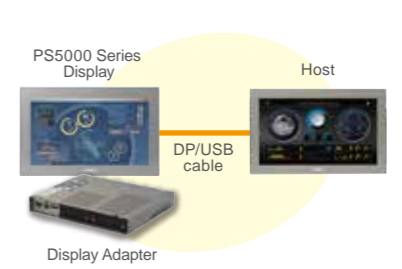


	Multi Display Adapter
Model	PFXZCDAEXR1

Industrial PC PS5000 Display Adapter

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

- Lineup with up to 22 wide type
- Compatible to full HD TFT (1,920 x 1,080 pixels)



	Display Adapter
Model	PFXZPPDADDP2

	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)
Size	15" / 12"	19"wide / 15"wide	22"wide / 19"wide / 15"wide / 12"wide
Host	PS5000 / PS4600 / PE4000B / SP5000 Open Box (SP-5B41) / General-purpose PC	SP5000 Open Box (SP-5B41) / PS5000 / PS4600 / PE4000B / General-purpose PC	PS5000 / General-purpose PC
OS	WinXP (32 bit), WES2009 Win7 (32/64 bit), WES7 Win8 (32/64 bit) Win8.1 Industry (64 bit)	Win7 (32/64 bit), WES7 (64 bit) Win8 (32/64 bit) Win8.1 Industry (64 bit)	Windows10 IoT Enterprise 2016 LTSP (64bit) Win7 (32/64 bit), WES7 (64 bit) Win8.1 Industry (64 bit)
Video	DVI-D	Ethernet	Display Port
Touch Panel Type	USB (Type B)		USB (Type B)
Distance to connect	5m (16ft.)	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



Versatile Software

Revolutionary new software, BLUE offers an alternative experience in hardware design. Anyone can easily create and change dynamic screens that allow for gesture operation. BLUE provides a ground-breaking versatile design style.



01 Rich and expressive interfaces and intuitive operation

Smartphone-like operation

Operate the screen with familiar gestures. Easy access to all necessary information.



Responsive design

Zoom out to focus on important information, zoom in for detailed information.



Detailed information with just one step Access information with less clicks



And more...

High-quality graphics

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



View all needed information at once

BLUE features an easy-to-use tool to combine multiple screens into one.

One source, multiple ways to present

Use themes to easily change color set according to a person, place or situation.

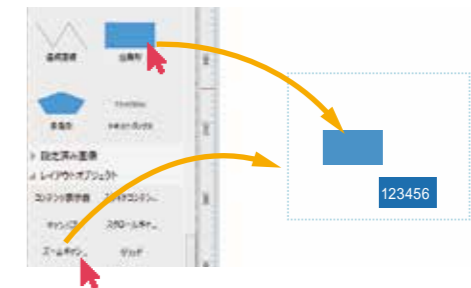
Navigation

Predefined navigation framework for fast and consistent design.

02 Reduce time required to create screens with new design methods

Easily create gesture screens

Just drag and drop the target objects on screens.



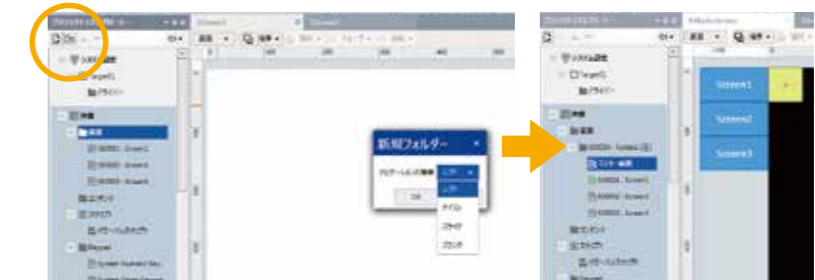
Reduce time for layout changes

Use grid cell editing to automatically adjust an object's size and location during layout changes.

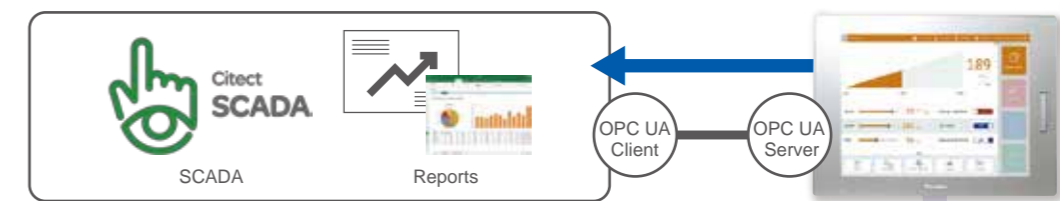


Set navigation easily

With the navigation feature, you don't need to create screen change switches.

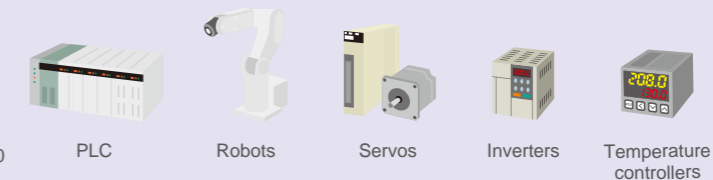


03 Effectively use machine information



Connect to up to 10 drivers at the same time

* Only applicable to SP5000



Model	Descriptions	Supported Model	SP5000 GP4000 GP4100 color model Pro-face IPC, PC/AT
PFXBLPCZLSPM**	BLUE Professional (DVD)		
PFXBLPCZLSPM**	BLUE Professional Group License (3 Licenses / License key code)		
PFXBLPCZLTPM**	BLUE Professional Team License (10 Licenses / License key code)		
PFXBLECZLSPM**	BLUE Express (DVD) *for GP4100 Series Color Model only		
PFXBLRCZLSPM**	BLUE Runtime *for Windows PC		

** means "the latest version."

Some models are not covered. For details, please visit our website.

Screen editor software

GP-Pro EX

Standard screen editor software

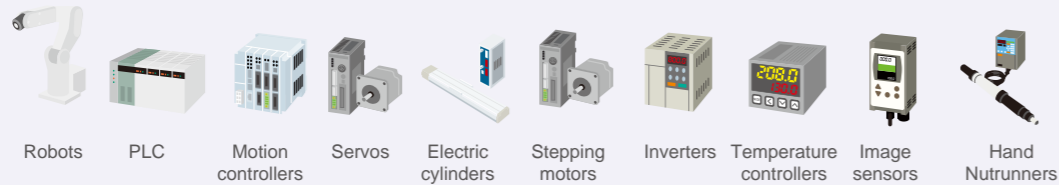
Enables HMI screen and logic programming.
Screen customization can be performed with ease due to many functions that promote compatibility with legacy applications and reduce development time.



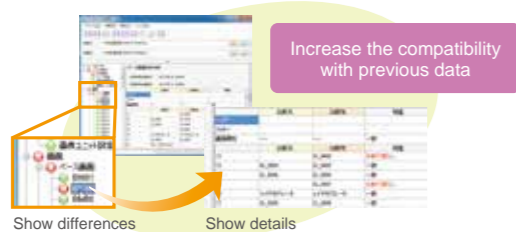
01 Connect directly to a wide range of devices

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

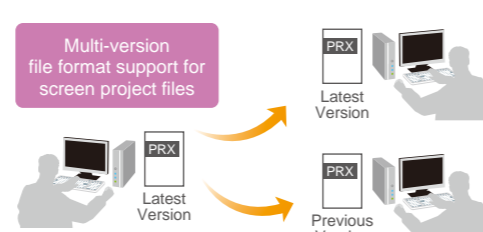
Pro-face products provide direct connection with various equipment



02 Leverage existing assets



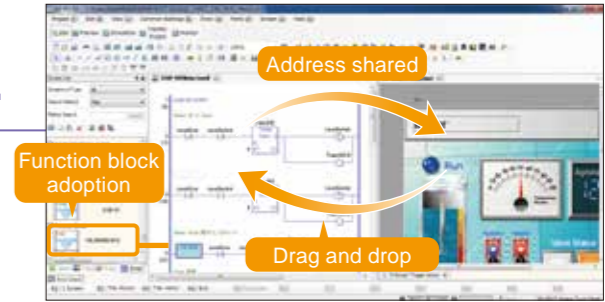
Able to display the difference between two similar files in detail.



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

03 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.



04 Easy creation of beautiful screens

Check everything visually on-screen, just like with real switches and lamps.



Use image fonts to expand design possibilities.



And more...

Ethernet multilink

Multiple HMIs can be easily added or connected with a single control device using Ethernet, and can even be added later.

Compatible with FTP client

Data sampled by HMI can be saved as CSV on the FTP server.

Runtime engine WinGP

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

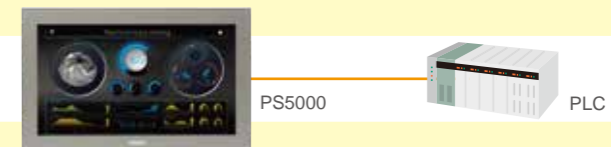
01 Seamless communication with control equipment

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

02 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.

No drawing required in programming language.



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

** is changed with the version of software.

BLUE Line Management Lite SCADA Open Studio



Flexible Software

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.

01 Connectivity

- Native OPC interfaces such as OPC UA/DA
- Active X and .Net controls
- 240+ available communication drivers for PLCs and many other devices



02 Mobility

Access to the system from anywhere using a single browser.



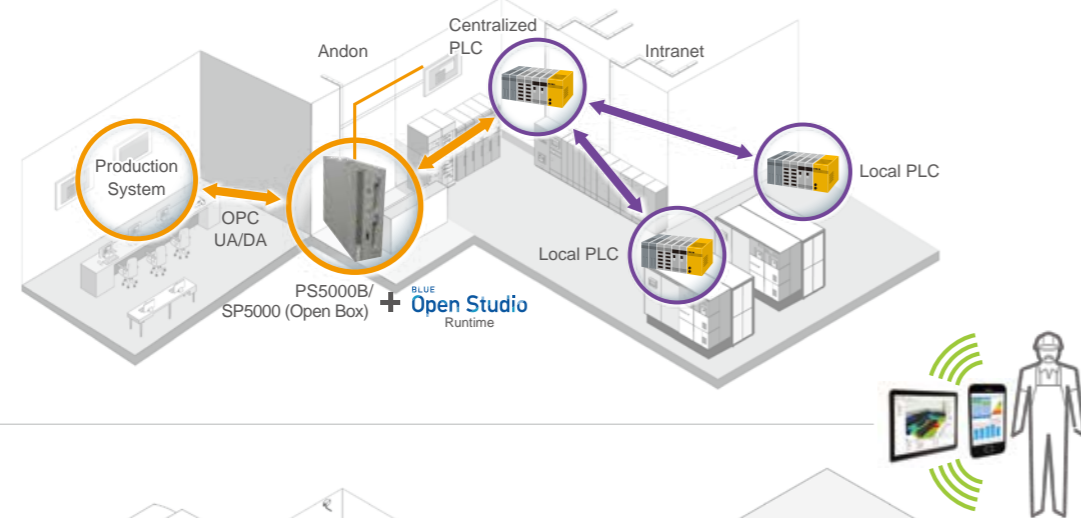
03 Reliability

Take advantage of built-in features to develop 21 CFR part 11 compliant application.

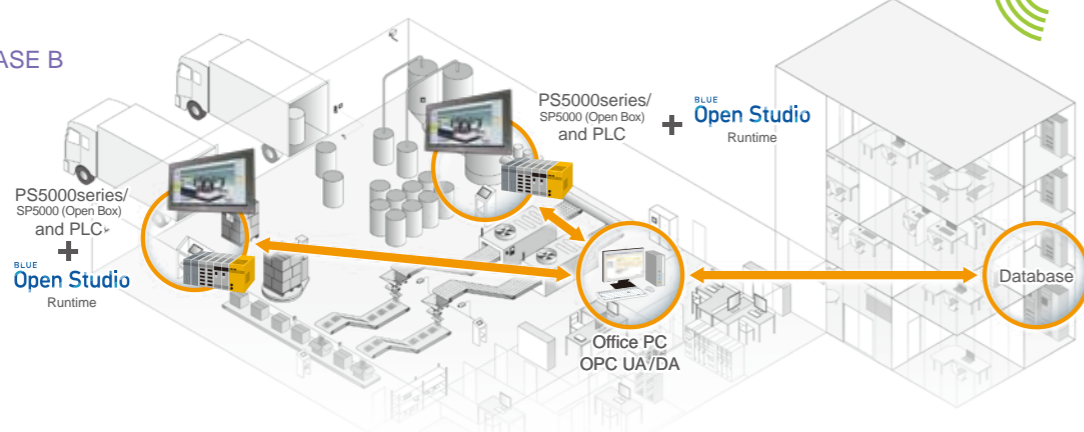


IoT Platform – Runtime Interface

CASE A



CASE B



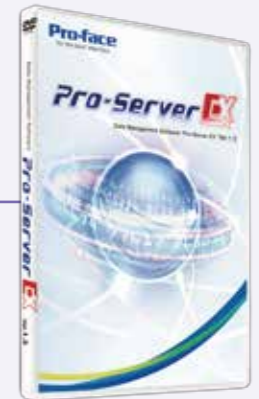
License Lineup

Product Name	No. of Licenses	No. of Tags	Model	Media
BLUE Open Studio for Supervision	1 License	64,000	PFXBOS*T64K*V80	DVD/Sticker
BLUE Open Studio for Line Management Plus	1 License	32,000	PFXBOS*T32K*V80	DVD/Sticker
BLUE Open Studio for Line Management	1 License	4,000	PFXBOS*T4K*V80	DVD/Sticker
BLUE Open Studio for Machine Control	1 License	1,500	PFXBOS*T1K*V80	DVD/Sticker
BLUE Open Studio Mobile Access	8 Licenses	-	PFXBOSMA8LV80	Sticker
	4 Licenses	-	PFXBOSMA4LV80	
BLUE Open Studio Secure Viewer	4 Licenses	-	PFXBOSSV4LV80	Sticker
BLUE Open Studio USB Hard key	-	-	PFXBOSUSBL	USB
PanelBuilder Import Wizard	1 License	-	PFXBOSPBTk	Sticker
PanelBuilderMate Import Wizard	1 License	-	PFXBOSPMTk	Sticker
PanelBuilder Import Wizard	1 License	-	PFXBOSPPTk	Sticker

*1 Run-time available with PS5000/SP5000 Open Box hardware only.

Data management software

Pro-Server EX

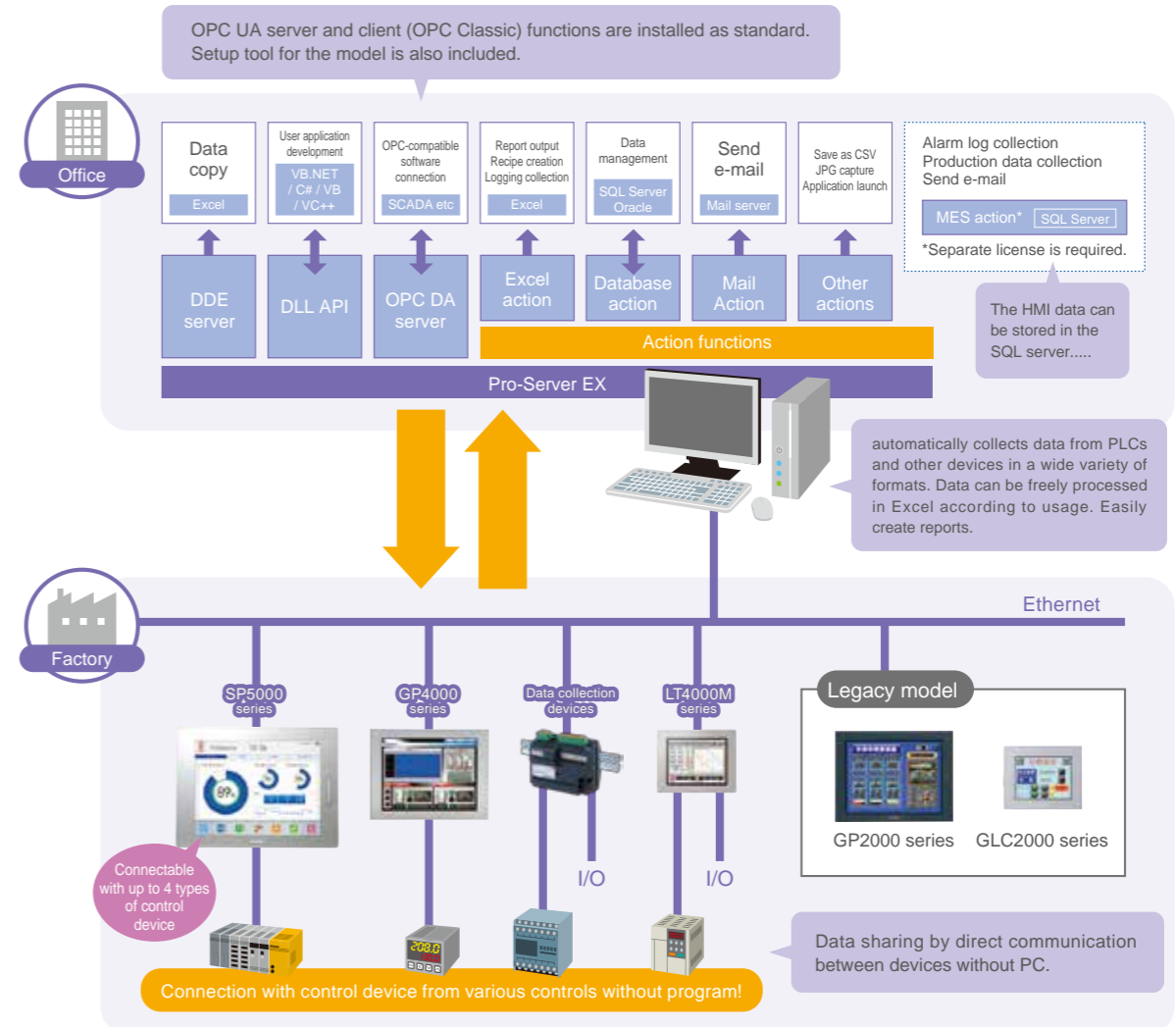


A simple way to start networking to enhance the communication between the office and the manufacturing site.

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.

01 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!



Model	Description
PFXEXSDVV**	HMI screen editor & logic programming software (DVD)
EX-SED-LICENSE	License Pro-Server EX Developer License (license key code)
EX-SRT-LICENSE	License Pro-Server EX Runtime License (license key code)
EX-MES-LICENSE-V**	License key permitting Pro-Server EX to access a database (license key code)

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

Supported Model (Client) *Only model with Ethernet I/F (except GP-4104)	SP5000 GP4000 GP3000 LT4000M LT3000 IPC supported WinGP Pro-face IoT Gateway IPC supported WinGP	Old Model with Ethernet I/F	GP2000 Series GLC2000 Series GP77R Series IT2400 Series Factory Gateway
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Remote monitoring

Various remote monitoring software to meet the exact needs of every customer.

Accurately convey vital information in a timely and effective manner to make your factory a "smart factory". Remote machine monitoring and transfer of work instructions to increase efficiency between the production site and the office.



Pro-face Remote HMI

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

- Supports both synchronous and asynchronous modes
- Exclusive control of touch operation and password setting at connection
- Simultaneous access from multiple tablets
- Register up to 100 HMIs on one tablet
- Alarm notification from registered HMI

Screen confirmation without stopping operation



Central monitoring



Supported OS: Android OS, iOS (iPhone, iPad, iPad touch) | Download (purchase) from App Store / Google Play

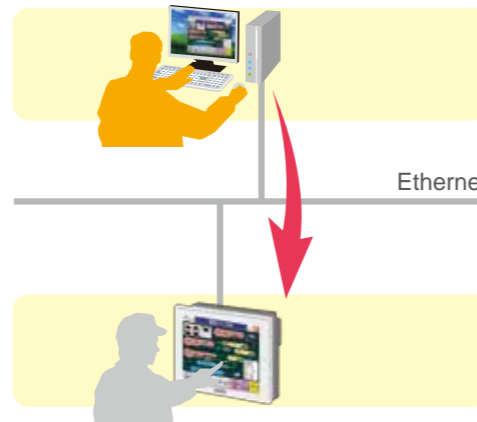


Pro-face Remote HMI Client for Win

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

Synchronous mode

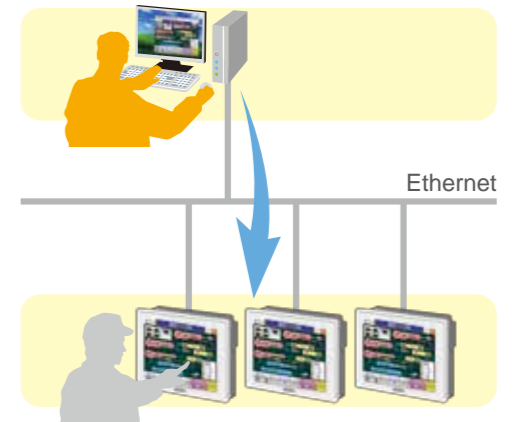
Remote monitoring of devices on-site in realtime



Accurate instructions from office

Asynchronous mode

Displayed screen is independent from remote display and operator can apply changes.



Changeable without stopping operation in the sites

Simultaneous display of up to 6 HMI screens

Freely change the screen size regardless of the original HMI resolution

Model	Description
PFEXRHCLS	1 License
PFEXRHCLS10	10 License
PFEXRHCLS30	30 License

Supported Model (Monitoring)	Description
Only model with Ethernet I/F (except GP-4104)	SP5000 GP4000 LT4000M Pro-face IoT Gateway Multi-Converter PS5000 PS4000* PE4000B*

* Pro-face Remote HMI Server is required separately.

Pro-face Remote HMI Server

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.



Screens available to display on mobile device can be set according to user!
 [Full screen] [Application]
 [Area specification of screens and applications]

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

Supported Model (Monitoring)	Description
	SP5000 Open Box PS5000 PS4000 PE4000B PC / AT Compatible

* WinGP for PC / AT (EX - WINGP - PCAT) is required separately.



Remote monitoring software GP-Viewer EX

Operate and view HMI screens at the production site using personal computers Real-time monitoring without impact on communication traffic.

- Supports both synchronous and asynchronous modes
- Simultaneous access to HMI to be monitored from up to three PCs
- Simultaneous display of up to 4 HMI screens
- Remote monitoring on 3G/4G lines is also possible thanks to the reduced communication traffic

Model	Description
EX-VIEWER-LICENSE	1 License
EX-VIEWER-LICENSE-10	10 License
EX-VIEWER-LICENSE-30	30 License

Supported Model (Monitoring)	Description
*Only model with Ethernet I/F (except GP-4104)	SP5000 GP4000 GP3000 LT4000M LT3000 PS5000 PS4000 PE4000B Pro-face IoT Gateway Multi-Converter

Pro-face Connect



Connect and Go

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

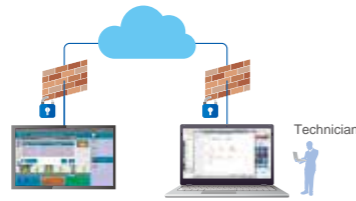
01 Efficient and easy to use

- Remote access for programming, diagnostics, control, and monitoring
- Speeds up operations and reduces machine downtime



02 Works everywhere, for everyone

- Operable for all applications and segments
- Available from a desktop PC, laptop, or tablet

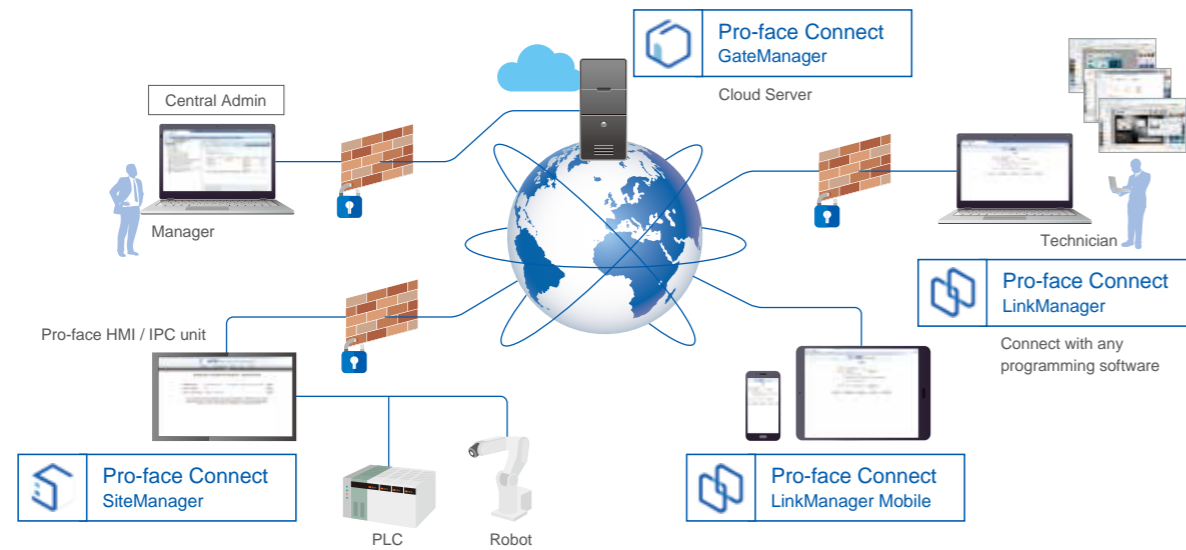


03 Reliable and Safe

- Cybersecure (end to end) for both original equipment manufacturers and end users
- Secure access to remote devices over the internet



Pro-face Connect



License Lineup

	Product Name	Model	Description
FREE	FREE TRIAL PACK	PFXCONFREE30	Trial package running 30 days
Basic Packs	Annual PACK 1 subscription	PFXCONPACK01	1x Pro-face Connect GateManager license
			15x Pro-face Connect SiteManager Embedded BASIC licenses/year
			1x Pro-face Connect LinkManager license (floating license)
	Annual PACK 2 subscription	PFXCONPACK02	1x Pro-face Connect LinkManager Mobile License
			1x Pro-face Connect GateManager license
			25x Pro-face Connect SiteManager Embedded BASIC licenses/year
Annual PACK 3 subscription	PFXCONPACK03	3x Pro-face Connect LinkManager licenses (floating license)	
		5x Pro-face Connect LinkManager Mobile Licenses	
		1x Pro-face Connect GateManager license	
Extended access to program other devices	SiteManager Embedded extended license	PFXCONEXTD5	40x Pro-face Connect SiteManager Embedded BASIC licenses/year
			5x Pro-face Connect LinkManager licenses (floating license)
	SiteManager Embedded extended license	PFXCONEXT10	10x Pro-face Connect LinkManager Mobile Licenses
			1x Pro-face Connect SiteManager Embedded EXTENDED license, 5 device agents
			1x Pro-face Connect SiteManager Embedded EXTENDED license, 10 device agents

SERVICE

We will continue to support your production sites and operations

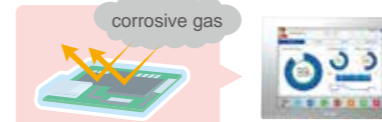
When you need more than a standard product...

Design/Replacement

Customized order Applicable to change of overlay and coatings different from standard products.

Long life Coating extends product lifetime

Coating the substrate for long life even in an environment where corrosive gas is generated.



* Shipped products are out of service.

Differentiation Better design suits your machine

Customize overlays with customer colors and logos. Select from black, white, beige or standard silver.



Seminar

We provide a hands-on seminar to learn basic drawing and replacement methods, as well as an online seminar to learn on the web (both free of charge). We also hold technical seminars for customers to learn application functions of software (with charge).

Replacement book

We posted easy-to-understand information on our website, including countermeasures at replacement and model comparisons.

Need to be prepared before delivery...

Setup service

Kitting service

We transfer the drawing data on behalf of the customer. Additionally, we can prepare settings including network setting.

Reduce man-hours

Drawing Data



Screen data installation

Installation of customer screen data before delivery.

Attachment of protective sheet

Shipping with attachment of protective sheet on the product.

Seal pasting

Delivery with logo and/or control number sticker seal specific to the customer.

And more...

Global support

Various inquiries including repair are accepted at 51 branches in 24 countries around the world. We also provide seminars. Our products can be purchased from anywhere in the world using the same model No.

Customer care center

Technical and product selection support, repair contact, guidance on various services regarding delivery and prices.

Web contents

Case examples of introduction and improvement. Videos explaining the products and how to use the software for the first use are subsequently uploaded.

Pro-face

by Schneider Electric



for the best interface

We supply the best interfaces to customers around the world. But these words mean more than just supplying the products, we strive for the best interface that connects employees with the customer, whether directly or indirectly.

⚠ WARNING

HAZARD OF OPERATOR INJURY, OR UNINTENDED EQUIPMENT DAMAGE

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

Failure to follow these instructions can result in death, serious injury, or equipment damage.

- For printing purposes, the colors in this catalog may differ from those of the actual unit.
- Actual user screens may differ from the screens shown here.
- Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Digital for any consequences arising out of the use of this material.
- All product names used in this catalog are the registered trademarks or trademarks of their respective companies.
- All information contained in this catalog is subject to change without notice.

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