

Graphic Operator Interface

SP5000 SERIES



Flagship Model of HMI for extensive use of information

SMART PORTAL

With increasingly sophisticated machine performance; production management and predictive maintenance utilizing operation data; and the growing popularity of the cloud, big data is coming to the manufacturing shop floor.

Pro-face has realized unprecedented connectivity in the new SMART PORTAL, creating a new interface designed firmly with the future in mind.

The SP5000 series allows a huge variety of data to be downloaded to SMART PORTAL and transmitted in an optimal format to those who need it.

SMART PORTAL connects information and people for optimal communication





Valuable information in the right format



Having more information is not necessarily better than having less. Value is created when the right information reaches the right people in the right format.

Bring your factory closer to your office



By segmenting the network, SMART PORTAL makes it possible to connect factories and offices while ensuring the highest security.

Simple to use —any time, any place



Overseas production and the diversification of market needs have increased the need for efficient machine setup and maintenance.

Check out the Movies

These movies will give you more information about SMART PORTAL concepts and benefits.





SMART PORTAL links two previously separate worlds



Shop Floor Network
Connect various devices on your shop floor with programless.

Accurately convey vital information in the right way at the right time.

Case 1 High performance HMI

Provide real-time response

Improves rendering performance and achieves real-time response. With high-speed processing ensuring high-speed rendering, SMART PORTAL replaces devices that have suffered from unsatisfactory response speed in the past.

Case 2 Application PC

Use as a built-in application PC

SMART PORTAL can be used in environments where PCs have been built into machines to allow the use of Windows applications. Dedicated apps can be used on the SMART PORTAL.

Case 3 Maintenance PC

Use as a maintenance PC

Manuals and all kinds of development tools can be saved in SMART PORTAL. There is no need to take a PC down to the factory every time maintenance work needs to be done.

Case 4 Data Collection PC

Use as a data collection PC

Separate IP addresses can be allocated for SMART PORTAL's two Ethernet ports. A network with the highest security can be built between the office and the factory. In addition, collected data can be stored on NVRAM to protect from data loss.

Display X Box module design provides flexible functionality and size

- With a selection of six displays and two boxes available, there are twelve SMART PORTAL combinations
- to choose from.
- Modular design allows the display to be attached to and detached from the box, making it possible to replace only parts that need replacing





USB Solutions / EZ Series

Extend functionality simply via a single USB cable



Multi-Converter

Ethernet

Serial

Collect data of various device units without a display by combining DC Power Supply Adapter.



Power Box





via a tablet or smartphone.

USB (Type A)

Product Name SP-5B10







Advanced Display

Product Name 12" Wide SP-5600WA

10" Wide SP-5500WA

7" Wide SP-5400WA

HMI Screen Editor and Logic Programming Software

GP-Pro EX



Intuitive operation reduces development time required for screen creation

Data Management Software

Pro-Server EX



Data-collecting software that easily connects the production site to the office through a network with simple settings at low cost

Remote Monitoring Software for Mobile

Pro-face Remote HMI







SP-5800WC Model: PFXSP5800WCD



SP-5700WC Model: PFXSP5700WCD



SP-5700TP Model: PFXSP5700TPD



SP-5660TP Model: PFXSP5660TPD



SP-5600TP Model: PFXSP5600TPD

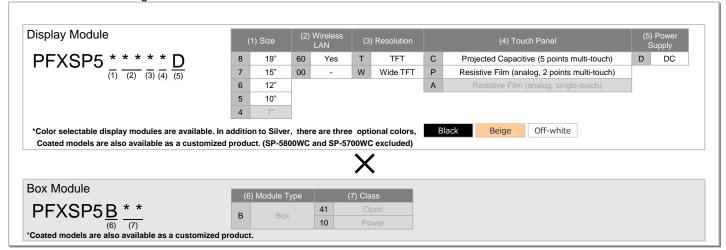


SP-5500TP Model: PFXSP5500TPD

SP5000 Series is a combined unit of Display Module and Box Module.

The power consumption or weight for the combined unit equals each sum of power consumption or weight of the two modules.

■ Model Number Configuration



■ Display Specifications

■ Display Specifications						
			Premiun	n Display		
	SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP
Display Type		TFT color LCD				
Display Size	19" wide	15" wide	15"	1.	2"	10"
Resolution	1,366 x 7 (FW)	68 pixels KGA)	1,024 x 768 pixels 80 (XGA)		800 x 600 pixels (SVGA)	
Auto Scaling			Υ	es		
Effective Display Area	W409.8 x H230.4mm	W344.2 x H193.5mm	W304.1 x H228.1mm	W245.8 x H184.3mm		W211.2 x H158.4mm
Effective Display Area	(W16.13 x H9.07 in)	(W13.55 x H7.62 in)	(W11.97 x H8.98 in.)	(W9.68 x H7.26 in.)		(W8.31 x H6.24 in.)
Display Colors			16 millio	on colors		
Backlight		White LED (Not user re	placeable. When replacemen	nt is required, contact your lo	cal Pro-face distributor.)	
Backlight Service Life		50,000 hours or more (co	ntinuous operation at 25 °C	[77 °F] before backlight brigh	tness decreases to 50%)	
Brightness Control			0100 (Adjusted with t	ouch panel or software)		
Brightness Sensor			Υ	es		
Front USB Interface		Yes				
Touch Panel Type	Projected Capacitive (5 points multi-touch) Resistive Film (analog, 2 points multi-touch)					
Touch Panel Resolution	2,048 x 2,048 1,024 x 1,024					
Touch Panel Service Life	50 million tir	mes or more	50 million times or more 1 million times or more			

■ Electrical Specifications

- Electrical operations							
				Premiun	Display		
		SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP
R	ated Input Voltage			122	4 Vdc		
lr	nput Voltage Limits			10.82	8.8 Vdc		
	Voltage Drop			12 Vdc : 1.25 ms or less	24 Vdc: 5 ms or less		
	Max	19 W	17 W	22 W	23 W	21 W	15 W
Power Con	When power is not supplied to devices via front USB	16 W or less	14 W or less	19 W or less	20 W or less	18 W or less	12 W or less
Consumption	When screen turns off the backlight (Standby Mode)	8 W or less	6 W or less	6 W or less	8 W or less	6 W or less	6 W or less
1	When screen backlight 20%	9 W or less	8 W or less	11 W or less	13 W or less	11 W or less	8 W or less
	In-Rush Current	ush Current 30 A or less					
\	oltage Endurance	1,000 Vac, 20 mA for 1 minute (between charging and FG terminals)					
In	sulation Resistance	500 Vdc, 10 MΩ or more (between charging and FG terminals)					

^{*1} Power Consumption for Display Module only.

■ Environmental Specification

		Premium Display				
	SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP
Surrounding Air Temperature	055 °C (3	2131 °F)		060 °C (32140 °F)	
Storage Temperature			-2060 °C	(-4140 °F)		
Surrounding Air and Storage Humidity		10%90% RH (Non condensing, wet bulb temperature 39 °C [102.2 °F] or less)				
Dust			0.1 mg/m3 (10-7 oz/ft3) or	less (non-conductive levels)		
Pollution Degree			For use in Pollution [Degree 2 environment		
Corrosive Gases	Free of corrosive gases					
Atmospheric Pressure (Operating Altitude)	8001,114 hPa (2,000 m [6,561 ft] or lower)					
Vibration Resistance	IEC/EN 61131-2 compliant 59 Hz Single amplitude 3.5 mm (0.14 in.) 9150 Hz Fixed acceleration: 9.8 m/s2 X, Y, Z directions for 10 cycles (approx. 100 min.)					
Shock Resistance	IEC/EN 61131-2 compliant 147 m/s2, X, Y, Z directions for 3 times					
			Noise Voltag	e: 1,000 Vp-p		
Noise Immunity	Pulse Duration: 1 μs					
140106 Illillianity	Rise Time: 1 ns					
(via noise simulator)						
Electrostatic Discharge Immunity	Contact Discharge Method: 6 kV (IEC/EN 61000-4-2 Level 3)					

■ Interface Specification

·	Premium Display					
	SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP
Wireless LAN	-	-	-	Yes	-	-
USB (Type A) *2	Connector: USB 2.0 (Type A) x 1, Power Supply Voltage: 5 Vdc ±5 %, Maximum Current Supplied: 500 mA, Maximum Transmission Distance: 5 m (16.4 ft)					
USB (mini B)	Connector: USB 2.0 (mini B) x 1, Maximum Transmission Distance: 5 m (16.4 ft)					

^{*2} When using the Display Module with the Power Box, you can connect only one of each type of USB device, such as one USB flash drive, one transfer cable, or one bar code reader. If you connect multiple devices that are the same type, only the first device will work.

■ Wireless LAN Specification (Only for SP-5660TP)*3 *4

Standards	IEEE802.11b/IEEE802.11g/IEEE802.11n	
Frequency Bandwidth	2.4 GHz	
Channel Bandwidth	20 MHz	
Access Point mode*5: 111ch Channel Client mode*6: North America US: 111 ch, Japan JP: 113 ch, Europe EU: 113 ch, Korea KR: 113 ch, China CN:113 ch, Taiwan TW: 111 ch		
Transmission Speed	IEEE802.11b: max 11Mbps, IEEE802.11g: max 54 Mbps, IEEE802.11n: max 72.2 Mbps	
Action Mode	Client mode/Access Point mode	
Communication Mode	Infrastructure	
Network Authentication	Open, WPA-Personal, WPA2-Personal	
Data Encryption	WEP (128 bit)(Open)*7, AUTO/TKIP (WPA-Personal), AES (WPA2-Personal)	
Maximum Client Connections	10	
Transmission Distance You can connect only from the front of the display. The connection angle and distance depend on your operating environment, applications in use, and target communication devices. Conduct an operation test, including directivity, in the operating environment before use.		

- *3 Use Wireless LAN in a configuration with Open Box Module combined.
 *4 Do not use wireless communication for operation of device units. It's necessary to consider possibilities of communication interference.
 *5 In Access Point mode, IEEE802.11d is not supported.
 *6 If the surrounding access points do not support IEEE802.11d, channels are limited, from 1 to 11 ch.
 *7 In Access Point mode, WEP is not supported.

■ Structural Specification

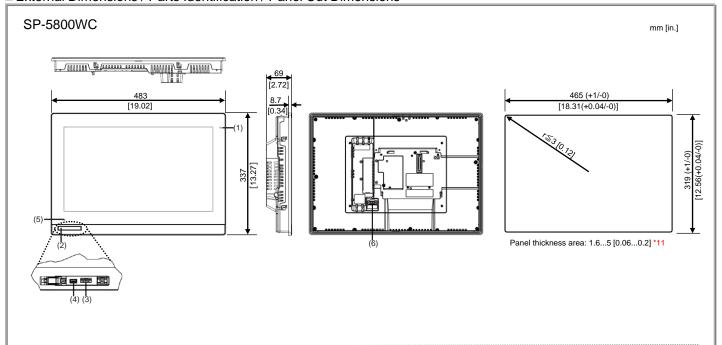
- Otructural Oper	Premium Display						
			Premium	Display			
	SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP	
Grounding		Functional grou	nding: Grounding resistance	of 100 Ω, 2 mm2 (AWG 14) o	r thicker wire, or		
Grounding		your	country's applicable standard	I (same for FG and SG termination)	nals).		
Cooling Method		Natural air circulation					
Structure *8	When using a factory-installed front USB cover: IP65F, IP67F. When using a front USB cover option (PFXZCDCVUS1): IP66F, IP67F, Type 4X (Indoor Use Only)/13 * The front face of this product when properly installed in an enclosure and not using the front panel USB port.						
External Dimensions	W483 x H337 x D69 mm (W19.02 x H13.27 x D2.72 in.)	W414 x H295 x D69 mm (W16.30 x H11.61 x D2.72 in.)	W397 x H296 x D67 mm (W15.6 x H11.7 x D2.64 in.)	W315 x H24 (W12.4 x H9.4	1 x D67 mm 49 x D2.64 in.)	W272.5 x H214.5 x D67 mn (W10.73 x H8.44 x D2.64 in.)	
Panel Cut Dimensions *9	W465 x H319 mm (W18.31 x H12.56 in.)	W396 x H277 mm (W15.59 x H10.91 in.)	W383.5 x H282.5mm (W15.1 x H11.12 in.)	W301.5 x F (W11.87 x		W259 x H201 mm (W10.2 x H7.91 in.)	
Weight *10	6.8 kg (15.0 lb) or less	5 kg (11.0 lb) or less	4.5 kg (9.9 lb) or less	3.2 kg (7.1	lb) or less	2.7 kg (5.9 lb) or less	

^{*8} The front face of this product, installed in a solid panel, has been tested using conditions equivalent to the standards shown in the specification.

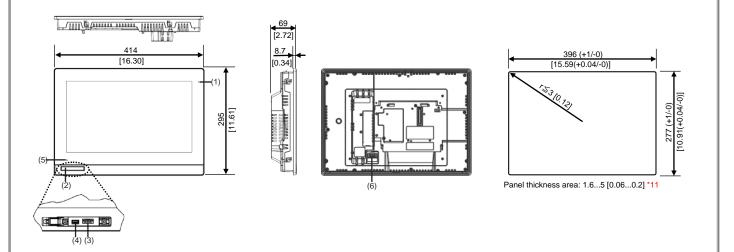
*9 For dimensional tolerance, everything +1/-0mm (+0.04/-0 in.) and R in angle are below R3 (R0.12 in.)

*10 Weight for Display Module only

■ External Dimensions / Parts Identification / Panel Cut Dimensions



SP-5700WC

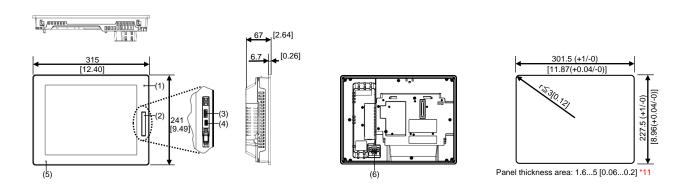


(1)Brightness Sensor (2)Front USB Cover (3)USB (Type A) Interface (4)USB (mini B) Interface (5)Status LED (6)Power Supply Connector

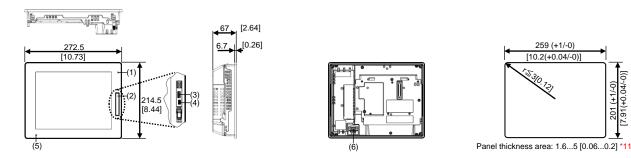
■ External Dimensions / Parts Identification / Panel Cut Dimensions

SP-5700TP mm [in.] 383.5 (+1/-0) [15.63] (a) (b) Panel thickness area: 1.6...5 [0.06...0.2] *11

SP-5660TP / SP-5600TP



SP-5500TP



(1)Brightness Sensor (2)Front USB Cover (3)USB (Type A) Interface (4)USB (mini-B) Interface (5)Status LED (6)Power Supply Connector

Display Module - Advanced Display







SP-5500WA Model: PFXSP5500WAD

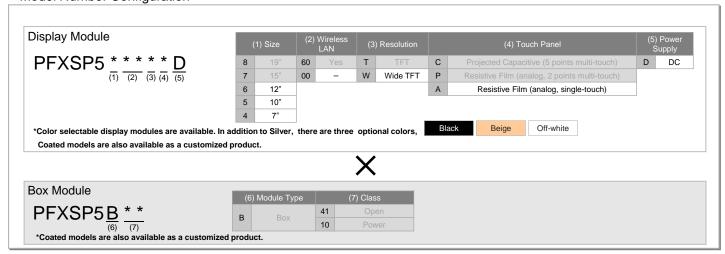


SP-5400WA Model: PFXSP5400WAD

SP5000 Series is a combined unit of Display Module and Box Module.

The power consumption or weight for the combined unit equals each sum of power consumption or weight of the two modules.

■ Model Number Configuration



■ Display Specifications

		Advanced Display			
	SP-5600WA	SP-5500WA	SP-5400WA		
Display Type		TFT color LCD			
Display Size	12" wide	10" wide	7" wide		
Resolution	1,280 x 800 pix	cels (WXGA)	800 x 480 pixels (WVGA)		
Auto Scaling	-				
Effective Display Area	W261.1 x H163.2 mm (W10.28 x H6.43 in.)	W217.0 x H135.6 mm (W8.54 x H5.34 in.)	W154.1 x H95.9 mm (W6.06 x H3.78 in.)		
Display Colors		262,144 colors			
Backlight	White LED (Not user re	placeable. When replacement is required, contact your loc	cal Pro-face distributor.)		
Backlight Service Life	50,000 hours or more (co	ntinuous operation at 25 °C [77 °F] before backlight brigh	tness decreases to 50%)		
Brightness Control		0100 (Adjusted with touch panel or software)			
Brightness Sensor		-			
Front USB Interface	-				
Touch Panel Type	Resistive Film (analog)				
Touch Panel Resolution	1,024 x 1,024				
Touch Panel Service Life		1 million times or more			

■ Electrical Specifications

	■ Electrical Specifications						
		Advanced Display					
		SP-5600WA	SP-5500WA	SP-5400WA			
R	ated Input Voltage		1224 Vdc				
Ir	put Voltage Limits		10.828.8 Vdc				
	Voltage Drop		12 Vdc: 1.25 ms or less 24 Vdc: 5 ms or less				
סַ	Max	11.5 W	8.5 W	6.5 W			
Power Cor	When power is not supplied to devices via front USB		-				
Consumption	When screen turns off the backlight (Standby Mode)	2.5 W	2 W or less				
1	When screen backlight 20%	6 W or less	5 W or less	4 W or less			
	In-Rush Current	30 A or less					
Voltage Endurance 1,000 Vac, 20 mA for 1 minute (between charging and FG terminals)			ninals)				
Ins	sulation Resistance	50	0 Vdc, 10 $M\Omega$ or more (between charging and FG terminal	als)			

^{*1} Power Consumption for Display Module only.

Display Module - Advanced Display

■ Environmental Specification

		Advanced Display			
	SP-5600WA	SP-5500WA	SP-5400WA		
Surrounding Air Temperature	060 °C (32140 °F)				
Storage Temperature		-2060 °C (-4140 °F)			
Surrounding Air and Storage Humidity	10%90% RH (Non condensing, wet bulb temperature 39 °C [102.2 °F] or less)				
Dust		0.1 mg/m3 (10-7 oz/ft3) or less (non-conductive levels)			
Pollution Degree		For use in Pollution Degree 2 environment			
Corrosive Gases		Free of corrosive gases			
Atmospheric Pressure (Operating Altitude)	8001,114 hPa (2,000 m [6,561 ft] or lower)				
	IEC/EN 61131-2 compliant				
Vibration Resistance	59 Hz Single amplitude 3.5 mm (0.14 in.)				
VIDIALIOIT INESISIANCE	9150 Hz Fixed acceleration: 9.8 m/s2				
	X, Y, Z directions for 10 cycles (approx. 100 min.)				
Shock Resistance	IEC/EN 61131-2 compliant				
Shock Resistance		147 m/s2, X, Y, Z directions for 3 times			
	Noise Voltage: 1,000 Vp-p				
Naina Immuunitu	Pulse Duration: 1 μs				
Noise Immunity	Rise Time: 1 ns				
	(via noise simulator)				
Electrostatic Discharge Immunity	Co	ontact Discharge Method: 6 kV (IEC/EN 61000-4-2 Level	3)		

■ Interface Specification

= Interface openination					
	Advanced Display				
	SP-5600WA	SP-5500WA	SP-5400WA		
Wireless LAN	·				
USB (Type A)	·				
USB (mini B)		-			

■ Structural Specification

		Advanced Display		
	SP-5600WA	SP-5500WA	SP-5400WA	
Grounding	Functional grounding: Grounding resistance of 100 Ω , 2 mm2 (AWG 14) or thicker wire, or your country's applicable standard (same for FG and SG terminals).			
Cooling Method	Natural air circulation			
Structure *8	IP66F, IP67F, TYPE 4X (Indoor Use Only)/13 * on the front panel when properly installed in an enclosure.			
External Dimensions	W308.5 x H230.5 x D67 mm (W12.15 x H9.07 x D2.64 in.)	W268.5 x H198.5 x D67 mm (W10.57 x H7.81 x D2.64 in.)	W203.6 x H148.6 x D36 mm (W8.02 x H5.85 x D1.42 in.)*12	
Panel Cut Dimensions *9	W295 x H217 mm (W11.61 x H8.54 in.)	W255 x H185 mm (W10.04 x H7.28 in.)	W190 x H135 mm (W7.48 x H5.31 in.)	
Weight *10	3 kg (6.6 lb) or less	2.5 kg (5.5 lb) or less	1.2 kg (2.6 lb) or less	

^{*8} The front face of this product, installed in a solid panel, has been tested using conditions equivalent to the standards shown in the specification.

*9 For dimensional tolerance, everything +1/-0 mm (+0.04/-0 in.) and R in angle are below R3 (R0.12 in.)

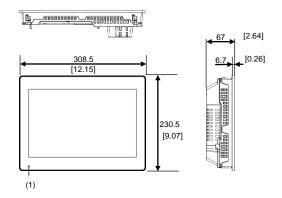
*10 Weight for Display Module only

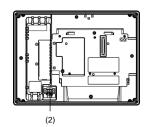
*12 When combined with Box Module, the depth is 67 mm (2.64 in.).

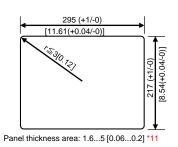
Display Module - Advanced Display

■ External Dimensions / Parts Identification / Panel Cut Dimensions

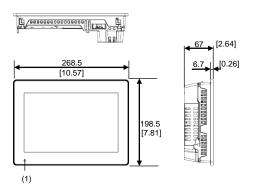
SP-5600WA mm [in.]

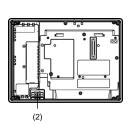


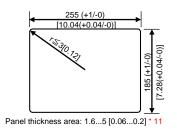




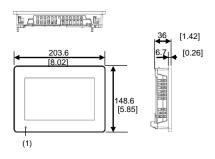
SP-5500WA

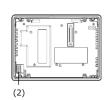


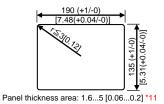




SP-5400WA







(1)Status LED (2)Power Supply Connector

Box Module





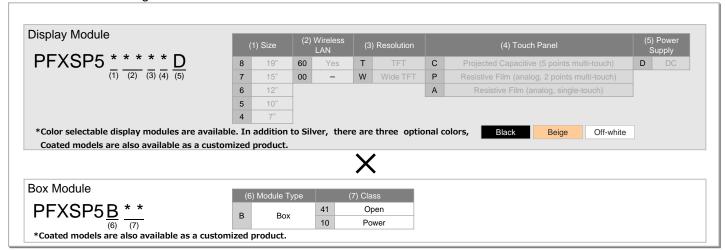


SP-5B10 Model: PFXSP5B10

SP5000 Series is a combined unit of Display Module and Box Module.

The power consumption or weight for the combined unit equals each sum of power consumption or weight of the two modules.

■ Model Number Configuration



■ Electrical Specifications

	uncai Spec	ilications	
		Open Box	Power Box
		SP-5B41	SP-5B10
Rated	Input Voltage	12 Vdc (Supply fro	m Display Module)
Power	Max	25 W	25 W
Consum ption*13	When power is not supplied to external devices		12.5 W or less

^{*13} Power consumption for Box Module only

■ Environmental Specifications

	Open Box	Power Box	
	SP-5B41	SP-5B10	
Surrounding Air Temperature	060 °C (32140 °F)		
Storage Temperature	-2060 °C	-2060 °C (-4140 °F)	
Surrounding Air and Storage Humidity	10%90% RH (Non condensing, wet bulb temperature 39 ℃ [102.2 °F] or less)		
Dust	0.1 mg/m3 (10-7 oz/ft3) or less (non-conductive levels)		
Pollution Degree	For use in Pollution Degree 2 environment		
Corrosive Gases	Free of corrosive gases		
Atmospheric Pressure (Operating Altitude)	8001,114 hPa (2,000 m [6,561 ft] or lower)		
Vibration Resistance	IEC/EN 61131-2 compliant		
	59 Hz Single amplitude 3.5 mm (0.14 in.)		
	9150 Hz Fixed acceleration: 9.8 m/s2		
	X, Y, Z directions for 10 cycles (approx. 100 min.)		
Shock Resistance	IEC/EN 61131-2 compliant		
	147 m/s2, X, Y, Z directions for 3 times		
	Noise Voltage: 1,000 Vp-p		
Noise Immunity	Pulse Duration: 1 μs		
	Rise Time: 1 ns		
	(via noise simulator)		
Electrostatic Discharge Immunity	Contact Discharge Method: 6 kV (IEC/EN 61000-4-2 Level 3)		

Box Module

■ Memory

	Open Box	Power Box
	SP-5B41	SP-5B10
Application Memory	Screen Size: 64 MB *CFast card	Screen Size: 64 MB *SD card
	Free Space: About 17 GB *14	Free Space: None
Backup Memory	NVRAM 320 KB	
Control Memory	•	64 KB

^{*14} You can install the applications you have used. As for hardware specifications, the CPU is Intel® Atom E3825 1.33GHz (Dual core/Dual thread) and the main memory is 'DDR3L SDRAM 2GB'. For the other hardware specifications, refer to "SP5000 Series Open Box Reference Manual".

■ Interface Specifications

	Open Box	Power Box	
	SP-5B41	SP-5B10	
Serial Interface COM1	RS-232C/422/485, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits Parity: None, odd, or even, Data Transmission Speed: 2,400 (1,200) to 115,200 bps Connector: D-Sub 9 pin (plug)		
Serial Interface COM2	RS-232C/422/485, Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, odd, or even Data Transmission Speed: 2,400(1,200)115,200 bps Connector: D-Sub 9 pin (plug)	RS-232C/422/485, Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, odd, or even Data Transmission Speed: 2,400(1,200)115,200 bps, 187,500bps (MPI) Connector: D-Sub 9 pin (plug)	
USB (Type A) Interface *2	Connector: USB 2.0 (Type A) x 3 Power Supply Voltage: 5 Vdc ±5% Maximum Current Supplied: 500 mA /port, 1 A total for 3 ports Maximum Transmission Distance: 5 m	Connector: USB 2.0 (Type A) x 2 Power Supply Voltage: 5 Vdc ±5% Maximum Current Supplied: 500 mA / port Maximum Transmission Distance: 5 m	
USB (mini-B) Interface	Connector: USB 2.0 (mini-B) x 1, Maxin	Connector: USB 2.0 (mini-B) x 1, Maximum Transmission Distance: 5m (16.4 ft)	
Ethernet Interface	Standard: IEEE802.3i/IEEE802.3u/IEEE802.3ab, 10BASE-T/100BASE-TX/1000BASE-T Connector: Modular jack (RJ-45) x 2		
SD Card Interface	SD Card Slot (Storage) x 1	SD Card Slot (System) x 1 SD Card Slot (Storage) x 1	
CFast Card Interface	CFast Card Slot (System) x 1 CFast Card Slot (Storage) x 1	-	
Video Interface	DVI-D OUT Connector: DVI-D 24 pin (socket) x 1	-	
Sound Input Interface	Sound Input: MIC or LINE input (software switch) Connector: MINI-JACK Ø3.5 x 1		
Sound Output Interface	Speaker Output: 300 mW (Rated Load: 8 Ω, Frequency : 1kHz) LINE Output: Rated load: 10 kΩ or more Connector: 2-piece terminal block (AUX) x 1		
AUX Input /Output Interface	Alarm Output / Buzzer Output Rated Voltage: 24 Vdc, Rated Current: 50 mA or less Connector: 2-piece terminal block x 1		

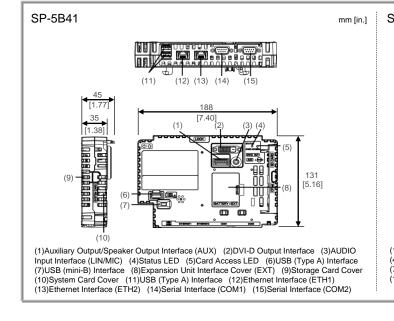
^{*2} When using the Display Module with the Power Box, you can connect only one of each type of USB device, such as one USB flash drive, one transfer cable, or one bar code reader. If you connect multiple devices that are the same type, only the first device will work.

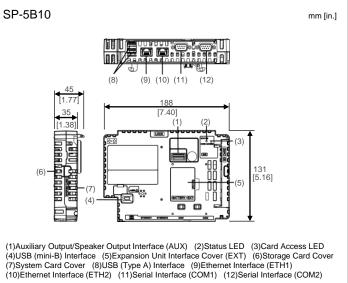
■ Structural Specifications

■ Structural Specifications				
	Open Box	Power Box		
	SP-5B41	SP-5B10		
Cooling Method	Natural air circulation			
External Dimensions *15	W188 x H131 x D45 mm			
	(W7.4 x H5.16 x D1.77 in.)			
Weight *15	0.9 kg (1.98 lb) or less			

^{*15} External Dimensions and Weight for Box Module only

■ External Dimensions / Parts Identifications





Your choice of platform





Allows you to monitor & control Pro-face HMI screen on a smart smart phone or a tablet seeing machine information wherever you go

Pro-face Remote HMI



Offer a wide selection with technology to meet your exact needs, Available in Box & Panel types with sustainability, durability and expandability.



PSSERIES

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Human Machine Interfaces

Offer extensive connectivity, clean, clear displays, and wide variety of product lines - standard, compact, modular, and handheld HMIs.

HMI+Control

Offer lower overall system costs and less panel space. Combines built-in PLC functionality with an operator interface, which is all-in-one software.



LTSERIES



Direct connection via our products to various devices enabled with our all-in-one software



Inverter



temperature control













Servo motor 10



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A 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.

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