

by Schneider Electric

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

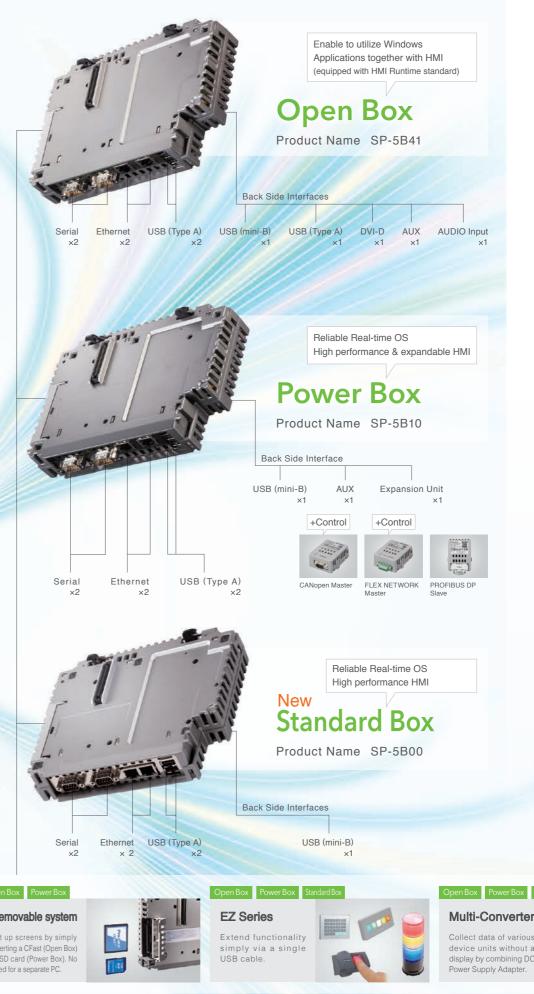
Use as a data collection PC

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 \times Box module design provides flexible functionality and size

- With a selection of ten displays and three boxes available, there are thirty 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





HMI Screen Editor and Logic Programming Software





Intuitive operation reduces development time required for screen creation.

Data Management Software





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



Display and operate the factory via a tablet or smartphone

Secure Remote Access over Internet

Pro-face Connect



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

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



Display Module - Premium Display



■ Model Number Configuration

visplay Module	(1) Size	(2)	Wireless LAN	(3)	Resolution		(4) Touch Panel		Power upply
PFXSP5 * * * * * D	8	19"	60	Yes	Т	TFT	С	Projected Capacitive (5 points multi-touch)	D	DC
PFXSP5 $\frac{*}{(1)} \frac{*}{(2)} \frac{*}{(3)} \frac{*}{(4)} \frac{D}{(5)}$	7	15"	00	-	W	Wide TFT	Р	Resistive Film (analog, 2 points multi-touch)		
	6	12"					А	Resistive Film (analog, single-touch)		
	5	10"	1							
	-	10								
Color selectable display modules are available	4 . In additic	7" on to Silver			•		В	ack Beige Off-white		
Color selectable display modules are available. Coated models are also available as a customia	4 . In additic	7" on to Silver			•	excluded)		00WC and SP-5600TA are not compatible with SP-5B40 (En		
Coated models are also available as a customiz	4 . In additic	7" on to Silver			•	excluded)				
Coated models are also available as a customiz	4 . In additic zed produ	7" on to Silver	OWC	and SP-57	•	excluded) SP-5800WC		00WC and SP-5600TA are not compatible with SP-5B40 (En		
	4 . In additic zed produ	7" on to Silver ict. (SP-580	OWC	and SP-57	X	excluded) SP-5800WC		00WC and SP-5600TA are not compatible with SP-5B40 (En		

Display Specifications

			Premiun	n Display		
	SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP
Display Type			TFT co	lor LCD		
Display Size	19" wide	15" wide	15"	1	2"	10"
Resolution	lution 1,366 x 768 pixels (FWXGA)			1,024 x 768 pixels (XGA)		800 x 600 pixels (SVGA)
Auto Scaling			Y	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
Ellective Display Alea	(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 replaceme	nt is required, contact your lo	cal Pro-face distributor.)	
Backlight Service Life		50,000 hours or more (co	ontinuous operation at 25 °C	[77 °F] before backlight brigh	ntness decreases to 50%)	
Brightness Control			0100 (Adjusted with t	ouch panel or software)		
Brightness Sensor			Y	es		
Front USB Interface			Y	es		
Touch Panel Type	Projected Capacitive	(5 points multi-touch)		Resistive Film (analog	g, 2 points multi-touch)	
Touch Panel Resolution	2,048	x 2,048		1,024	x 1,024	
Touch Panel Service Life	50 million ti	mes or more		1 million tin	nes or more	

Electrical Specifications

				Premium	Display					
		SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP			
R	ated Input Voltage	1224 Vdc								
In	nput Voltage Limits			10.828	3.8 Vdc					
	Voltage Drop			12 Vdc : 1.25 ms or less	24 Vdc: 5 ms or less					
п	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		30 A or less							
	Noise Immunity		Noise voltage: 1,000 Vp-p, pulse duration: 1 µs, rise time: 1 ns (via noise simulator)							
V	/oltage Endurance		1,000 Vac, 20 mA for 1 minute (between charging and FG terminals)							
Ins	sulation Resistance		50	0 Vdc, 10 MΩ or more (betwe	en charging and FG termina	ls)				

*1 Power Consumption for Display Module only.

Environmental Specification

			Premiur	n Display				
	SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP		
Surrounding Air Temperature	055 °C (3	2131 °F)		060 °C (3	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 I	Degree 2 environment				
Corrosive Gases			Free of con	rosive 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						
Electrical fast transient/burst	IEC 61000-4-4 2 kV: Power port (display unit) 1 kV: Signal ports							
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	Po	wer Supply Voltage: 5 Vdc \pm	Connector: USB 5 %, Maximum Current Supp		smission Distance: 5 m (16.4	l 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
Channel	Access Point mode <mark>*5</mark> : 111ch Client mode <mark>*6:</mark> 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.

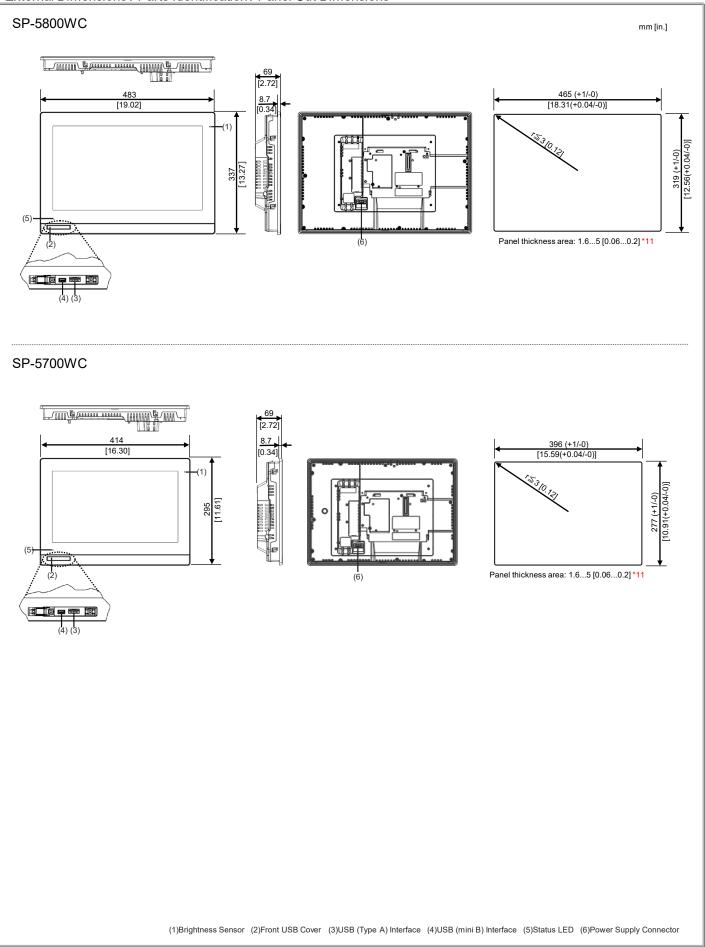
*6 If the surrounding access points do not support IEEE802.11d, channels are limited, from 1 to 11 ch.
*7 In Access Point mode, WEP is not supported.

Structural Specification

	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) c	or thicker wire, or			
Grounding		your	country's applicable standard	I (same for FG and SG termi	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.)		1 x D67 mm 19 x D2.64 in.)	W272.5 x H214.5 x D67 mm (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.)		H227.5 mm H8.96 in.)	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		

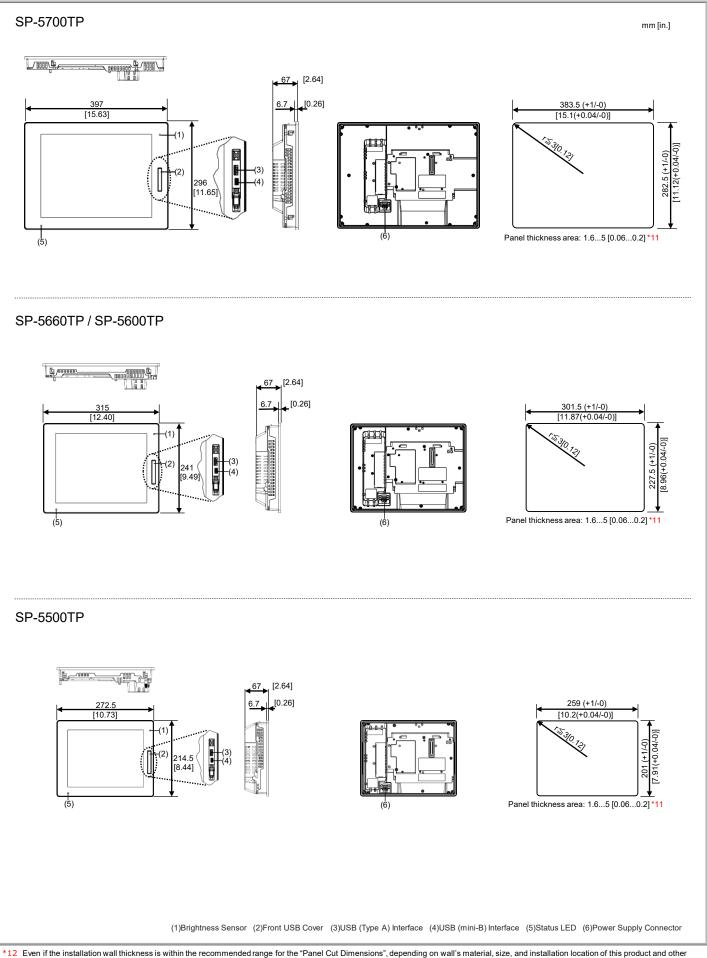
*8 The front face of this product, installed in a solid panel, has been tested using conditions equivalent to the standards shown in the specification.
 *9 For dimensional tolerance, everything +1/-0mm (+0.04/-0 in.) and R in angle are below R3 (R0.12 in.)
 *10 Weight for Display Module only

External Dimensions / Parts Identification / Panel Cut Dimensions



*11 Even if the installation wall thickness is within the recommended range for the "Panel Cut Dimensions", depending on wall's material, size, and installation location of this product and other devices, the installation wall could warp. To prevent warping, the installation surface may need to be strengthened.

External Dimensions / Parts Identification / Panel Cut Dimensions



*12 Even if the installation wall thickness is within the recommended range for the "Panel Cut Dimensions", depending on wall's material, size, and installation location of this product and devices, the installation wall could warp. To prevent warping, the installation surface may need to be strengthened.

Display Module - Advanced Display



	,	1) 0120		LAN		11000101011			Supply
PFXSP5 * * * * * D	8	19"	60	Yes	Т	TFT	С	Projected Capacitive (5 points multi-touch)	D DC
(1) (2) (3) (4) (5)	7	15"	00	-	W	Wide TFT	Р	Resistive Film (analog, 2 points multi-touch)	
	6	12"					А	Resistive Film (analog, single-touch)	
	5	10"							
	4	7"				_			
*Color-selectable display modules are available. In For color-selectable SP-5600TA, please contact t	to our loc	al Pro-face	e sales	s office.	•		Bla in the	· ·	
	to our loc	al Pro-face	e sales	s office.	•			· ·	Sale: Mar. 30, 20
For color-selectable SP-5600TA, please contact t Coated models are also available as a customize	to our loc	al Pro-faci t. (Except	e sales	s office. P-5600TA.	•			future.)	Sale: Mar. 30, 20
For color-selectable SP-5600TA, please contact t Coated models are also available as a customize Box Module	to our loc	al Pro-faci t. (Except	e sales for SP	s office. P-5600TA.	•	be supported		future.)	Sale: Mar. 30, 20
For color-selectable SP-5600TA, please contact t Coated models are also available as a customize	to our loc	al Pro-faci t. (Except	e sales for SP	e office. 9-5600TA.	It will	be supported (7) Class		future.)	Sale: Mar. 30, 20

(5) Power

Display Specifications

		Advance	ed Display				
	SP-5600TA	SP-5600WA	SP-5500WA	SP-5400WA			
Display Type		TFT co	blor LCD				
Display Size	12.1"	12" wide	10" wide	7" wide			
Resolution	1,024 x 768 pixels (XGA)	1,280 x 800 pixels (WXGA)	1,280 x 800 pixels (WXGA)	800 x 480 pixels (WVGA)			
Auto Scaling			-				
Effective Display	W245.8 x H184.3 mm	W261.1 x H163.2 mm	W217.0 x H135.6 mm	W154.1 x H95.9 mm			
Area	(W9.68 x H7.26 in.)	(W10.28 x H6.43 in.)	(W8.54 x H5.34 in.)	(W6.06 x H3.78 in.)			
Display Colors		262,14	4 colors				
Backlight	WhiteL	ED (Not user replaceable. When replaceme	nt is required, contact your local Pro-face dis	tributor.)			
Backlight Service Life	50,000 ho	ours or more (continuous operation at 25 °C	e (continuous operation at 25 °C [77 °F] before backlight brightness decreases to 50%)				
Brightness Control		0100 (Adjusted with	touch panel or software)				
Brightness Sensor			-				
Front USB Interface			-				
Touch Panel Type		Resistive F	ilm (analog)				
Touch Panel Resolution		1,024	x 1,024				
Touch Panel Service Life		1 million ti	nes or more				

Electrical Specifications

		•	Advanced	Display					
		SP-5600TA	SP-5600WA	SP-5500WA	SP-5400WA				
Ra	ted Input Voltage		1224	l Vdc					
Inp	ut Voltage Limits	10.828.8 Vdc							
	Voltage Drop		12 Vdc: 1.25 ms or less	24 Vdc: 5 ms or less					
	Max	10.0 W	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 or less		2 W or less				
1	When screen backlight 20%	5.7 W or less	6 W or less	5 W or less	4 W or less				
l	n-Rush Current	30 A or less							
1	loise Immunity	Noise voltage: 1,000 Vp-p, pulse duration: 1 µs, rise time: 1 ns (via noise simulator)							
Vo	Itage Endurance	1,000 Vac, 20 mA for 1 minute (between charging and FG terminals)							
In	sulation Resistance		500 Vdc, 10 M Ω or more (between the two sets of two set	en charging and FG terminals)					

*1 Power Consumption for Display Module only.

Environmental Specification

Advanced Display							
SP-5600TA	SP-5600WA	SP-5500WA	SP-5400WA				
	060 °C (3	2140 °F)					
	-2060 °C (-4140 °F)						
	10%90% RH (Non condensing, wet bulb temperature 39 °C [102.2 °F] or less)						
	0.1 mg/m3 (10-7 oz/ft3) or l	ess (non-conductive levels)					
	For use in Pollution D	egree 2 environment					
	Free of corre	osive gases					
8001,114 hPa (2,000 m [6,561 ft] or lower)							
	IEC/EN 6113	-2 compliant					
	÷ .						
	X, Y, Z directions for 10 c	ycles (approx. 100 min.)					
	IEC/EN 6113	l-2 compliant					
	147 m/s2, X, Y, Z di	rections for 3 times					
	IEC 610	00-4-4					
	2 kV: Power po	rt (display unit)					
	1 kV: Sig	nal ports					
	Contact discharg	ge method: 6 kV					
	Air discharge	method: 8 kV					
	(IEC/EN 6100	0-4-2 Level 3)					
	SP-5600TA	SP-5600TA SP-5600WA 060 °C (3 -2060 °C (3 -2060 °C (3 -2060 °C (3 10%90% RH (Non condensing, wet bul 0.1 mg/m3 (10-7 oz/ft3) or li 0.1 mg/m3 (10-7 oz/ft3) or li For use in Pollution D For use in Pollution D Free of corror 8001,114 hPa (2,000 IEC/EN 61133 59 Hz Single amplit 9150 Hz Fixed acc X, Y, Z directions for 10 c IEC/EN 61133 147 m/s2, X, Y, Z directions for 10 c IEC/EN 61137 147 m/s2, X, Y, Z directions for 10 c IEC/EN 61137 147 kV: Sig Contact discharg Air discharge Air discharge	SP-5600TA SP-5600WA SP-5500WA 060 °C (32140 °F) -2060 °C (-4140 °F) -2060 °C (-4140 °F) 10%90% RH (Non condensing, wet bulb temperature 39 °C [102.2 °F] or less) 0.1 mg/m3(10-7 oz/ft3) or less (non-conductive levels) For use in Pollution Degree 2 environment Free of corrosive gases				

Interface Specification

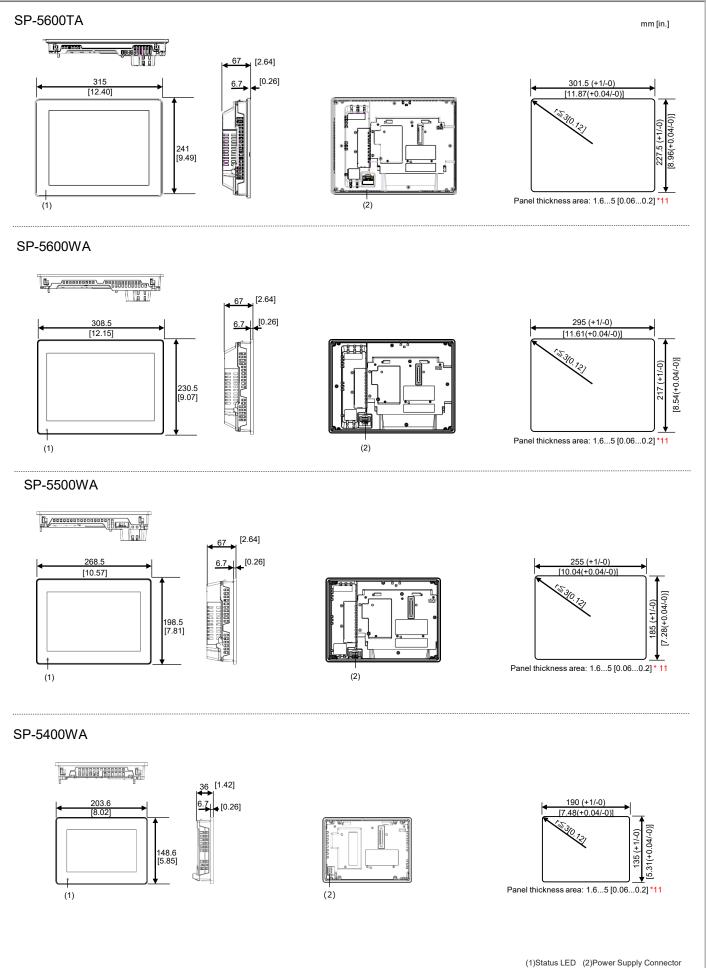
	Advanced Display								
	SP-5600TA	SP-5600WA	SP-5500WA	SP-5400WA					
WirelessLAN		-							
USB (Type A)		· · · · · · · · · · · · · · · · · · ·							
USB (mini B)									

Structural Specification

	Advanced Display					
	SP-5600TA	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	W315 x H241 x D67 mm (W12.4 x H9.49 x D2.64 in.)	W 308.5 x H230.5 x D67 mm (W 12.15 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	W301.5 x H227.5 mm (W11.87 x H8.96 in.)	W295 x H217 mm (W11.61 x H8.54 in.)	W255 x H185 mm (W10.04 x H7.28 in.)	W 190 x H135 mm (W 7.48 x H5.31 in.)		
Weight*10	3.2 kg (7.1 lb)or less	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.).

External Dimensions / Parts Identification / Panel Cut Dimensions



*11 Even if the installation wall thickness is within the recommended range for the "Panel Cut Dimensions", depending on wall's material, size, and installation location of this product and other devices, the installation wall could warp. To prevent warping, the installation surface may need to be strengthened.

Box Module



SP-5B41

Model: PFXSP5B41



SP-Model

SP-5B10 Model: PFXSP5B10



SP-5B00 Model: PFXSP5B00

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 Module	(1) Size		(2) Wireless LAN		(3) F	(3) Resolution		(4) Touch Panel (5) Power Supply
PFXSP5 * * * * * D		19"	60	Yes	т	TFT	С	
(1) (2) (3) (4) (5) 7	7	15"	00	-	W	Wide TFT	Р	Resistive Film (analog, 2 points multi-touch)
6	6	12"					А	Resistive Film (analog, single-touch)
5	5	10"						
4	1	7"						
*Color selectable display modules are available. I Coated models are also available as a customize	In ad	ldition to	o Silv	ver, ther	e are t	three opt	onal c	colors, Black Beige Off-white
	In ad	ldition to			×			
Coated models are also available as a customize Box Module	In ad	ldition to		ver, ther	Vpe		onal c Class Open	
Coated models are also available as a customize ox Module PFXSP5 <u>B</u> <u>* *</u>	In ad	ldition to			Х уре	(7)	Class	n
Coated models are also available as a customize	In ad ed pro	ldition to	(6)) Module Ty	ype	(7) 41 10	Class Open	n er

Electrical Specifications

		Open Box	Power Box	Standard Box
		SP-5B41	SP-5B10	SP-5B00
Rated Inp	ut Voltage 12 Vdc (Supply from Display Module)			
	Max	25 W	25 W	17.5 W
Power Consum ption*13	When power is not supplied to external devices	15 W or less	12.5 W or less	8.8 W or less

*13 Power consumption for Box Module only

Environmental Specifications

	Open Box	Power Box	Standard Box
	SP-5B41	SP-5B10	SP-5B00
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)	
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	
Electrical fast transient/burst		IEC 61000-4-4 2 kV: Power port (display unit) 1 kV: Signal ports	
Electrostatic Discharge Immunity		Contact discharge method: 6 kV Air discharge method: 8 kV (IEC/EN 61000-4-2 Level 3)	

Box Module

Memory

			Open Box	Power Box	Standard Box
			SP-5B41	SP-5B10 SP-5B00	
	Media		CFast card	SD card	Flash EPROM
	Editor : GP-Pro EX	Screen area *14	64MB	64MB	
		User font area	No upper limit	8MB	
Application memory		Logic program area	-	132KB (Equivalent to 15,000 steps)	
		Free space	Approx. 17GB	-	
	Removable system		Yes		No
Backup memory	Editor : GP-Pro EX	Screen area	NVRAM 320KB or CFast/SD card (storage) 5MB	NVRAM 320KB	
. ,	Variable area		NVRAM 64KB		
	Battery		- *15		

*14 Use the screen area when the user font area's capacity is exceeded - for example, when an image font or a picture font is used. (Except PFXSP5B41)
 *15 SP5000 series can retain NVRAM (backup memory) and RTC (clock data) without any batteries. But, when no power is supplied for 100 days or more, it's necessary to additionally mount this option item to retain RTC (clock data).

■ Interface Specifications

	Open Box	Power Box	Standard Box
	SP-5B41	SP-5B10	SP-5B00
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)		RS-232C, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: None, Even or Odd, Data Transmission Speed: 2,400 to 115,200 bps, Connector: D-Sub 9 (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)	RS-422 / 485, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: None, Even or Odd, Data Transmission Speed: 2,400 to 115,200 bps, 187,500 bps (MPI), Connector: D- Sub 9 pin (plug)
USB (Type A) Interface *16	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	Power Supply Vo Maximum Current So	3 2.0 (Type A) x 2 Itage: 5 Vdc ±5% upplied: 500 mA / port ssion Distance: 5 m
USB (mini-B) Interface	Connecto	r: USB 2.0 (mini-B) x 1, Maximum Transmission Distance: 5	im (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		IEEE802.3i / IEEE802.3u / IEEE802.3ab, 10BASE-T / 100BASE-TX 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	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 / Rated Voltage: 24 Vdc, Ra Connector: 2-piece	-	

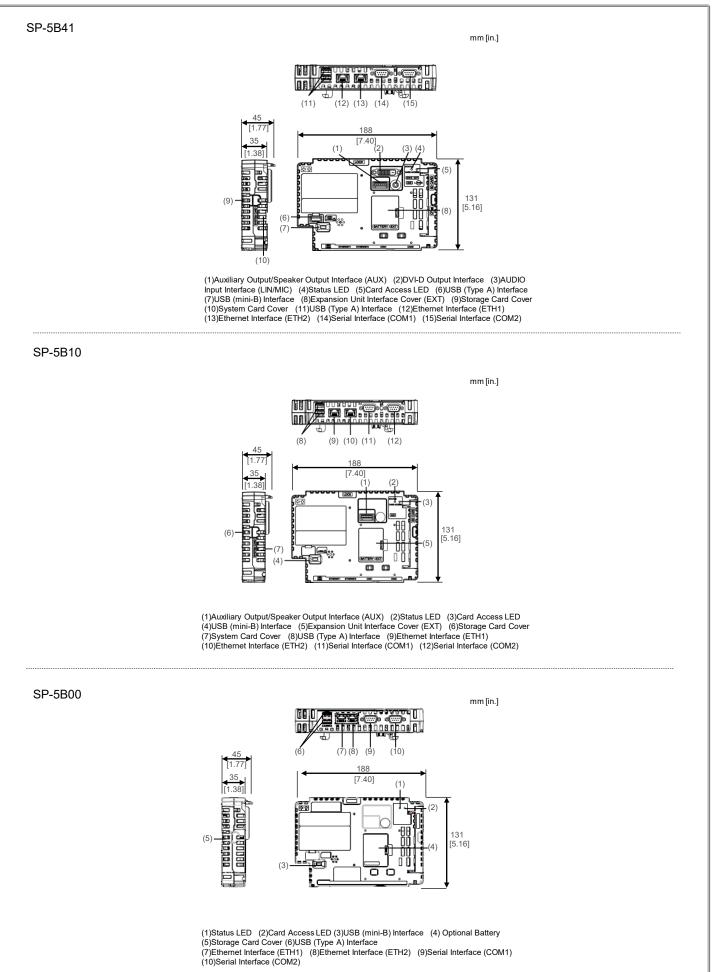
*16 When using the Display Module with the Power Box, you can connect only one of each type of USB device, such as one USB flash drive, one transfer cable, or one bar code reader. If you connect multiple devices that are the same type, only the first device will work.

Structural Specifications

	Open Box	Power Box	Standard Box			
	SP-5B41	SP-5B10	SP-5B00			
Cooling Method	Natural air circulation					
External		W188 x H131 x D45 mm				
Dimensions *17	(W7.4 x H5.16 x D1.77 in.)					
Weight*17	0.9 kg (1.98 lb) or less					

*17 External Dimensions and Weight for Box Module only

External Dimensions / Parts Identifications



Your choice of platform

