### Display Module

### SP5000SERIES













Model: PFXSP5600WAD Model: PFXSP5500WAD Model: PFXSP5400WAD



SP-5700TP Model: PFXSP5700TPD

SP-5660TP

SP-5600TP Model: PFXSP5660TPD Model: PFXSP5600TPD Model: PFXSP5500TPD

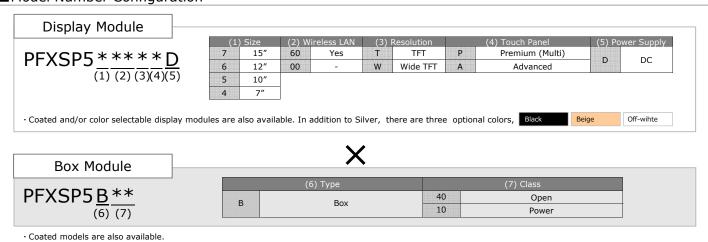
SP-5500TP

SP-5600WA

SP-5500WA SP-5400WA

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

	Premium Display				Advanced Display			
	SP-5700TP	SP-5660TP SP-5600TP		SP-5500TP	SP-5600WA	SP-5500WA	SP-5400WA	
Display Type								
Display Size	15"	1	2"	10"	12" wide	10" wide	7" wide	
Resolution	1,024 x 768 pixels (XGA)			800 x 600 pixels (SVGA)			800 x 480 pixels (WVGA)	
Auto Scaling	Yes			=				
Effective Display Area	W304.1 x H228.1mm	W245.8 x H184.3mm		W211.2 x H158.4mm	W261.1 x H163.2mm	W217.0 x H135.6mm	W154.1 x H95.9mm	
Effective Display / wea	(W11.97 x H8.98 in.)	(W9.68 x	H7.26 in.)	(W8.31 x H6.24 in.)	(W10.28 x H6.43 in.)	(W8.54 x H5.34 in.)	(W6.06 x H3.78 in.)	
Display Colors	16million colors			262,144 colors				
Backlight		White LED (Not user replaceable. When replacement is required, contact your local Pro-face distributor.)						
Backlight Service Life	50	50,000 hours or more (continuous operation at 25 $^\circ$ C [77 $^\circ$ F] before backlight brightness decreases to 50%)						
Brightness Control			0100 (Adj	usted with touch pane	l or software)			
Brightness Sensor	Yes			-				
Front USB Interface	Yes			-				
Touch Panel Type	Resistive Film (analog, multi-touch)			Resistive Film (analog)				
Touch Panel Resolution	1,024 x 1,024							
Touch Panel Service Life	1 million times or more							

### **■**Electrical Specifications

		Premium	n Display	Advanced Display				
	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP	SP-5600WA	SP-5500WA	SP-5400WA	
Rated Input Voltage	1224 Vdc							
Input Voltage Limits	10.828.8 Vdc							
Voltage Drop		12Vdc: 1.25ms or less 24Vdc: 5ms or less						
Y PO Max	22W	23W	21W	15W	11.5W	8.5W	6.5W	
When power is not supplied to devices via front USB	19W or less	20W or less	18W or less	12W or less	-			
When screen turns off the backlight (Standby Mode) When screen	6W or less	8W or less	6W or less	6W or less	2.5W or less 2W or les			
When screen backlight 20%	11W or less	13W or less	11W or less	8W or less	6W or less	5W or less	4W or less	
In-Rush Current	30A or less							
Voltage Endurance		1,000 Vac, 20 mA for 1 minute (between charging and FG terminals)						
Insulation Resistance	500 Vdc, 10 M $\Omega$ or more (between charging and FG terminals)							

<sup>\*1</sup> Power Consumption for Display Module only .

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■Environmental Specification

		Premiur	n Display	Advanced Display					
	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP	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 $^{\circ}$ C [102.2 $^{\circ}$ 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.)								
VIDIACION RESISCANCE	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							
Silvent resistance		147 m/s2, X, Y, Z directions for 3 times							
Noise Immunity	Noise Voltage: 1,000 Vp-p Pulse Duration: 1 µs								
110.00 Initiality	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				Advanced Display			
	SP-5700TP SP-5660TP SP-5500TP SP-5500TP			SP-5600WA	SP-5500WA	SP-5400WA		
Wireless LAN	- Yes			-				
		Connector: USB	2.0 (Type A) x 1,					
USB (Type A) *2	Power Supply Voltag	ge: 5Vdc ±5%, Maxin		-				
		Transmission Dista	ance: 5m (16.4 ft)					
USB (mini B)		Connector: USB	2.0 (mini B) x 1,		_			
035 (111111 B)	M	aximum Transmission	Distance: 5m (16.4)					

<sup>\*2</sup> 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 (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*5: 111 ch 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 11 Mbps  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
Connection angle and distance	Only the display side is connectable. The enabled connectivity angle and distance depend on your operating environment, applications to be used, and a communication target device. Be sure to conduct operation check including directionality in your operating environment before use.

- \*3 For the Wireless LAN, please use in a combination with the Open Box module.
- \*3 For the Wireless LAN, please use in a combination with the Open Box module.

  \*4 Do not use wireless communication to control machinery. Wireless communication system design must take into account the possibility 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 11ch.

  \*7 In Access Point mode, WEP is not supported.

### ■Structural Specification

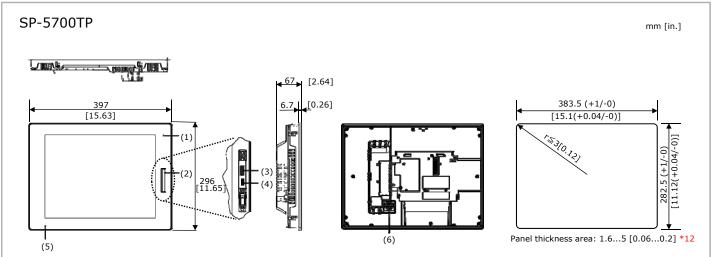
= Structural Sp	ecincation									
	Premium Display				Advanced Display					
	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP	SP-5600WA	SP-5500WA	SP-5400WA			
Grounding	Functional grounding: Grounding resistance of 100 $\Omega$ , 2 mm2 (AWG 14) or thicker wire, or									
Grounding	your country's applicable standard (same for FG and SG terminals).									
Cooling Method				Natural air circulation	l					
Structure *8		t USB cover option (F (Indoor Us		IP66F, IP67F, TYPE 4X (Indoor Use Only)/13 * on the front panel when properly installed in an enclosure.						
External Dimensions	W397 x H296 x D67 mm W315 x H241 x D67 mm (W15.6 x H11.7 x (W12.4 x H9.49 x D2.64 in.) D2.64 in.)			W272.5 x H214.5 x D67 mm(W10.73 x H8.44 x D2.64 in.)	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.)*9			
Panel Cut Dimensions *10	W383.5 x H282.5mm	W301.5 x H227.5mm		W259 x H201mm	W295 x H217mm	W255 x H185mm	W190 x H135mm			
Weight *11	4.5kg以下 3.2kg以下			2.7kg以下	3kg以下	2.5kg以下	1.2kg以下			

- \*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 When combined with Box Module, the depth is 67mm (2.64 in.).
  \*10 For dimensional tolerance, everything +1/-0 mm (+0.04/-0 in.) and R in angle are below R3 (R0.12 in.)
  \*11 Weight for Display Module only

### Display Module - Premium Display

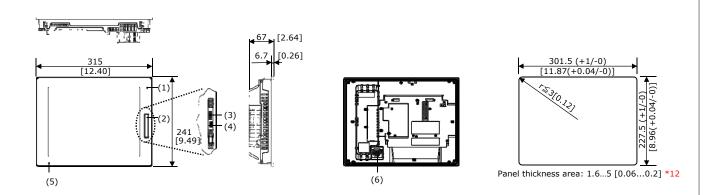
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### ■ External Dimensions/Parts Identification/Panel Cut Dimensions



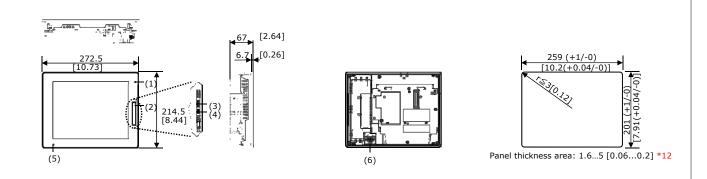
(1) Brightness Sensor (2) Front USB Cover (3) USB (Type A) Interface (4) USB (mini-B) Interface (5) Status LED (6) Power Supply Connector

### SP-5660TP / SP-5600TP



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

### SP-5500TP



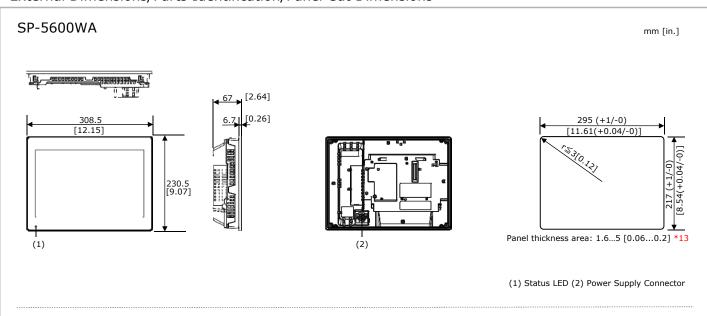
(1) Brightness Sensor (2) Front USB Cover (3) USB (Type A) Interface (4) USB (mini-B) Interface (5) Status LED (6) Power Supply Connector

<sup>\*12</sup> 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.

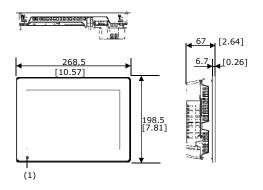
## Display Module - Advanced Display

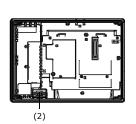
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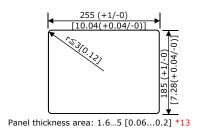
### ■ External Dimensions/Parts Identification/Panel Cut Dimensions



#### SP-5500WA

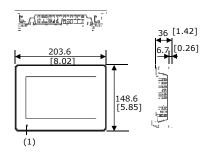


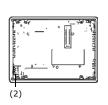


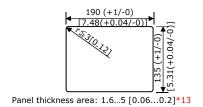


(1) Status LED (2) Power Supply Connector

### SP-5400WA







(1) Status LED (2) Power Supply Connector

<sup>\*13</sup> 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.