Display Module SP5000SERIES



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

Model: PFXSP5700TPD

Model: PFXSP5660TPD Model: PFXSP5600TPD Model: PFXSP5500TPD

Model: PFXSP5600WAD Model: PFXSP5500WAD Model: PFXSP5400WAD

Model Number Configuration



■Display Specifications

		Premiun	n Display	Advanced Display					
	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP	SP-5600WA	SP-5500WA	SP-5400WA		
Display Type									
Display Size	15″	12″		10″	12" wide	10" wide	7" wide		
Resolution	1,024 x 768 pixels (XGA) 800 x 600 pixels (SVGA)			800 x 600 pixels (SVGA)	1,280 x 800 pixels (WXGA) 800 x 480 pixe (WVGA)				
Auto Scaling		Y	es		-				
Effective Display Area	W304.1 x H228.1mm (W11.97 x H8.98 in.)		H184.3mm H7.26 in.)	W211.2 x H158.4mm (W8.31 x H6.24 in.)	W261.1 x H163.2mm (W10.28 x H6.43 in.)	W217.0 x H135.6mm (W8.54 x H5.34 in.)	W154.1 x H95.9mm (W6.06 x H3.78 in.)		
Display Colors		16millio	on colors	262,144 colors					
Backlight	White LED (Not user replaceable. When replacement is required, contact your local Pro-face distributor.)								
Backlight Service Life	50,000 hours or more (continuous operation at 25 $^\circ$ C [77 $^\circ$ F] before backlight brightness decreases to 50%)								
Brightness Control		0100 (Adjusted with touch panel or software)							
Brightness Sensor	Yes -								
Front USB Interface	Yes -								
Touch Panel Type		Resistive Film (an	alog, 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							
* Pov 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)	6W or less	8W or less	6W or less	6W or less	2.5W or less 2W or less				
S 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 Ω or more (between charging and FG terminals)								

*1 Power Consumption for Display Module only .

Display Module

Environmental Specification

		Premiun	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.) 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 Immunity	Noise Voltage: 1,000 Vp-p 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)								

■Interface Specification

	Premium	n Display	Advanced Display			
SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP	SP-5600WA	SP-5500WA	SP-5400WA
-	Yes	-	-		-	
	Connector: USB	2.0 (Type A) x 1,				
Power Supply Voltag				-		
	Connector: USB	2.0 (mini B) x 1,				
Ma	aximum Transmission	Distance: 5m (16.4		-		
	- Power Supply Voltag	SP-5700TP SP-5660TP - Yes Connector: USB Power Supply Voltage: 5Vdc ±5%, Maxim Transmission Distr Connector: USB	Yes - Connector: USB 2.0 (Type A) x 1, Power Supply Voltage: 5Vdc ±5%, Maximum Current Supplied Transmission Distance: Transmission Distance: 5m (16.4 ft) Connector: USB 2.0 (mini B) x 1,	SP-5700TP SP-5660TP SP-5600TP SP-5500TP - Yes - - Connector: USB 2.0 (Type A) x 1, - Power Supply Voltage: 5Vdc ±5%, Maximum Current Supplied: 500mA, Maximum Transmission Distance:	SP-5700TP SP-5660TP SP-5600TP SP-5500TP SP-5600WA - Yes - <td>SP-5700TP SP-5600TP SP-5500TP SP-5600WA SP-5500WA - Yes -</td>	SP-5700TP SP-5600TP SP-5500TP SP-5600WA SP-5500WA - Yes -

*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 (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.

*4 Do not use 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

	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 Ω , 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						
Structure *8	When using a factory-installed front USB cover: IP65F, IP67F. When using a front USB cover option (PFX2CDCVUS1): 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.				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 (W15.6 x H11.7 x D2.64 in.)		1 x D67 mm 9 x 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T			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 SP5000SERIES

SP-5700TP mm [in.] ∢ 67► [2.64] [0.26] 383.5 (+1/-0) 397 6.7 [15.63] [15.1(+0.04/-0)] \$310. (1) [11.12(+0.04/ 2) 296 11.65 (4) Panel thickness area: 1.6...5 [0.06...0.2] *12 (6) (5) (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 67 [2.64] [0.26] 6.7 301.5 (+1/-0) [11.87(+0.04/-0) 315 [12.40] +0.04(3) (4) 241 96(φ. Panel thickness area: 1.6...5 [0.06...0.2] *12 (6) (5) (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 140245 [2.64] 67 [0.26] 6.7 259 (+1/-0) 10 [10.2(+0.04/-0 214.5 [8.44] 0+ [7.91(Panel thickness area: 1.6...5 [0.06...0.2] *12 (5) (6) (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

*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 other devices, the installation wall could warp. To prevent warping, the installation surface may need to be strengthened.

Display Module - Advanced Display SP5000SERIES

External Dimensions/Parts Identification/Panel Cut Dimensions



*13 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.