

Display Module

SP5000 SERIES



SP-5700TP

Model: PFXSP5700TPD



SP-5600TP

PFXSP5600TPD



SP-5500TP

PFXSP5500TPD



SP-5600WA

PFXSP5600WAD



SP-5500WA

PFXSP5500WAD



SP-5400WA

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 Module

PFXSP5 * 00 * * D
(1) (2)(3) (4)

(1) Size		(2) Resolution		(3) Touch Panel		(4) Power Supply	
7	15"	T	TFT	P	Premium (Multi)	D	DC
6	12"	W	Wide TFT	A	Advanced		
5	10"						
4	7"						

*Color selectable display modules are also available. In addition to Silver, there are three optional colors, Black Beige Off-white

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Box Module

PFXSP5 B * *
(5) (6)

(5) Module Type		(6) Class	
B	Box	40	Open
		10	Power

Display Specifications

	Premium Display			Advanced Display		
	SP-5700TP	SP-5600TP	SP-5500TP	SP-5600WA	SP-5500WA	SP-5400WA
Display Type	TFT color LCD					
Display Size	15"	12"	10"	12" wide	10" wide	7" wide
Resolution	1,024 x 768 pixels (XGA)		800 x 600 pixels (SVGA)	1,280 x 800 pixels (WXGA)		800 x 480 pixels (WVGA)
Auto Scaling	Yes			-		
Effective Display Area	W304.1 x H228.1mm (W11.97 x H8.98 in.)	W245.8 x H184.3mm (W9.68 x 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	16million colors			262,144 colors		
Backlight	White LED (Not user replaceable. When replacement is required, contact your local Pro-face distributor.)					
Backlight Service Life	50,000 hours or more (continuous operation at 25 ° C [77 ° F] before backlight brightness decreases to 50%)					
Brightness Control	0...100 (Adjusted with touch panel 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 Display			Advanced Display		
	SP-5700TP	SP-5600TP	SP-5500TP	SP-5600WA	SP-5500WA	SP-5400WA
Rated Input Voltage	12...24 Vdc					
Input Voltage Limits	10.8...28.8 Vdc					
Voltage Drop	12Vdc : 1.25ms or less			24Vdc: 5ms or less		
Power Consumption	22W	21W	15W	11.5W	8.5W	6.5W
Max	19W or less	18W or less	12W or less	-		
When power is not supplied to devices via front USB	6W or less			2.5 or less		2W or less
When screen turns off the backlight (Standby Mode)	11W or less			8W or less	6W or less	5W or less
When screen backlight 20%	11W or less			8W or less	6W or less	5W 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 MΩ or more (between charging and FG terminals)					

*1 Power Consumption for Display Module only

Display Module

SP5000SERIES

■ Environmental Specification

	Premium Display			Advanced Display		
	SP-5700TP	SP-5600TP	SP-5500TP	SP-5600WA	SP-5500WA	SP-5400WA
Standards and Regulations						
Surrounding Air Temperature	0...60 ° C (32...140 ° F)					
Storage Temperature	-20...60 ° C (-4...140 ° 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)	800...1,114 hPa (2,000 m [6,561 ft] or lower)					
Vibration Resistance	IEC/EN 61131-2 compliant 5...9 Hz Single amplitude 3.5 mm (0.14 in.) 9...150 Hz Fixed acceleration: 9.8 m/s ² X, Y, Z directions for 10 cycles (approx. 100 min.)					
Shock Resistance	IEC/EN 61131-2 compliant 147 m/s ² , 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 Display			Advanced Display		
	SP-5700TP	SP-5600TP	SP-5500TP	SP-5600WA	SP-5500WA	SP-5400WA
USB (Type A) *2	Connector: USB 2.0 (Type A) x 1, Power Supply Voltage: 5Vdc ±5%, Maximum Current Supplied: 500mA, Maximum Transmission Distance: 5m (16.4 ft)			-		
USB (mini-B)	Connector: USB 2.0 (mini B) x 1, Maximum Transmission Distance: 5m (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.

■ Structural Specification

	Premium Display			Advanced Display		
	SP-5700TP	SP-5600TP	SP-5500TP	SP-5600WA	SP-5500WA	SP-5400WA
Grounding	Functional grounding: Grounding resistance of 100 Ω, 2 mm ² (AWG 14) or thicker wire, or your country's applicable standard (same for FG and SG terminals).					
Cooling Method	Natural air circulation					
Structure *3	When using a factory-installed front USB cover: IP65F, IP67F. When using a front USB cover option (PFXXZCDCVUS1): 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.)	W315 x H241 x D67 mm (W12.4 x H9.49 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.) *4
Panel Cut Dimensions *5	W383.5 x H282.5mm (W15.1 x H11.12 in.)	W301.5 x H227.5 mm (W11.87 x H8.96 in.)	W259 x H201 mm (W10.2 x H7.91 in.)	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 *6	4.5kg (9.9 lb) or less	3.2kg (7.1 lb) or less	2.7kg (5.9 lb) or less	3kg (6.6 lb) or less	2.5kg (5.5 lb) or less	1.2kg (2.6 lb) or less

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

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

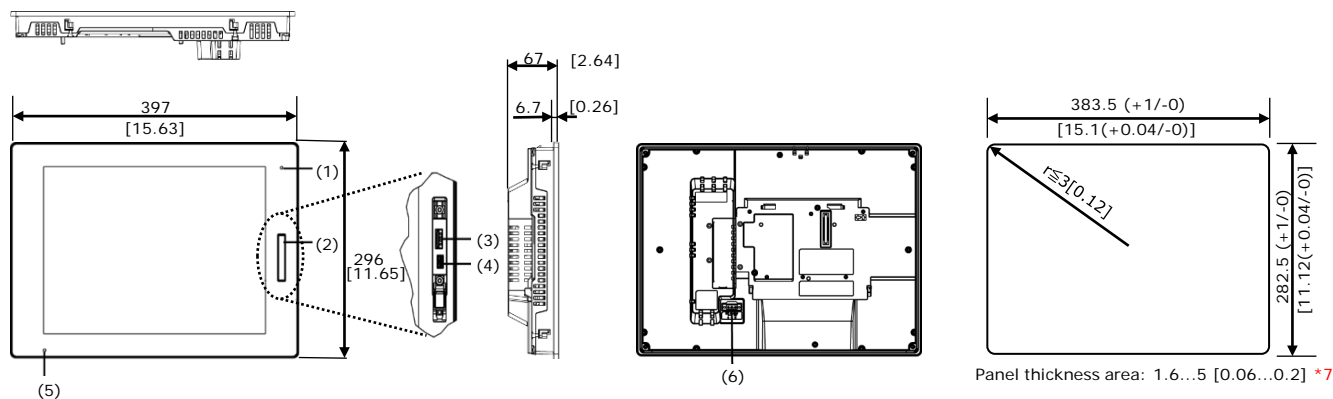
*5 For dimensional tolerance, everything +1/-0 mm (+0.04/-0 in.) and R in angle are below R3 (R0.12 in.)

*6 Weight for Display Module only

■ External Dimensions/Parts Identification/Panel Cut Dimensions

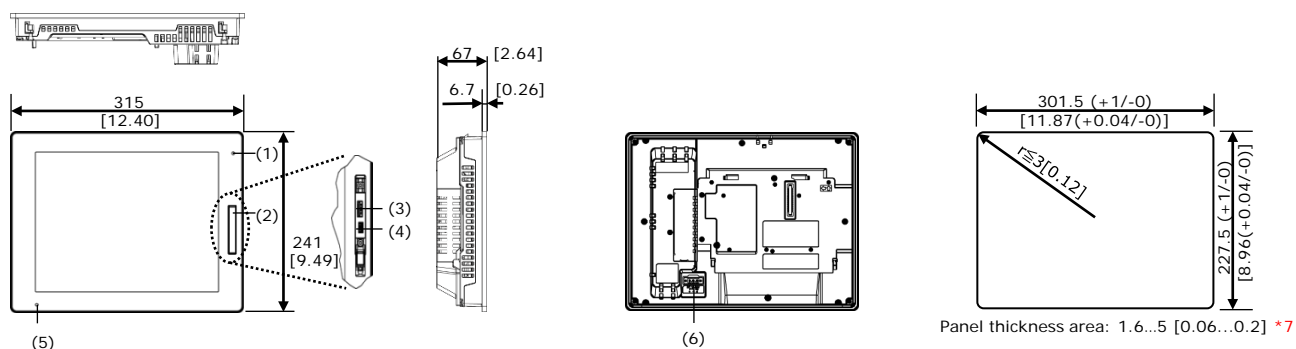
SP-5700TP

mm [in.]



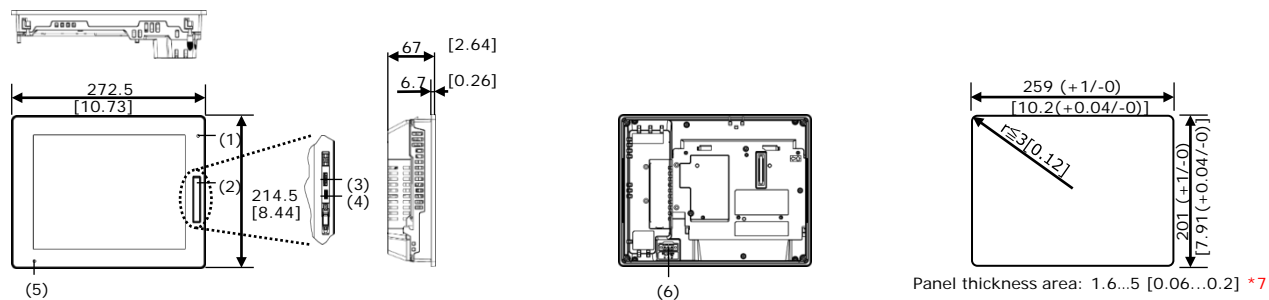
(1) Brightness Sensor (2) Front USB Cover (3) USB (Type A) Interface (4) USB (mini-B) Interface (5) Status LED (6) Power Supply Connector

SP-5600TP



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SP-5500TP



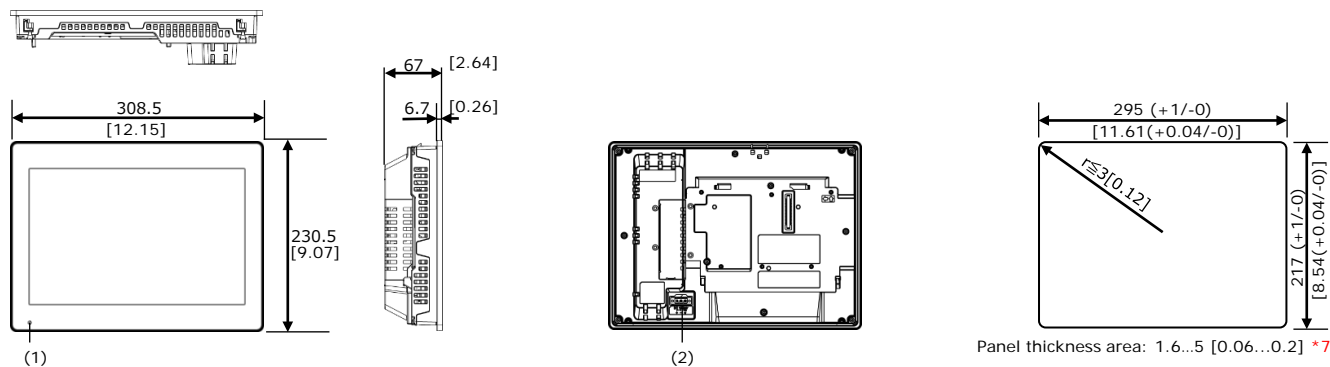
(1) Brightness Sensor (2) Front USB Cover (3) USB (Type A) Interface (4) USB (mini-B) Interface (5) Status LED (6) Power Supply Connector

*7 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

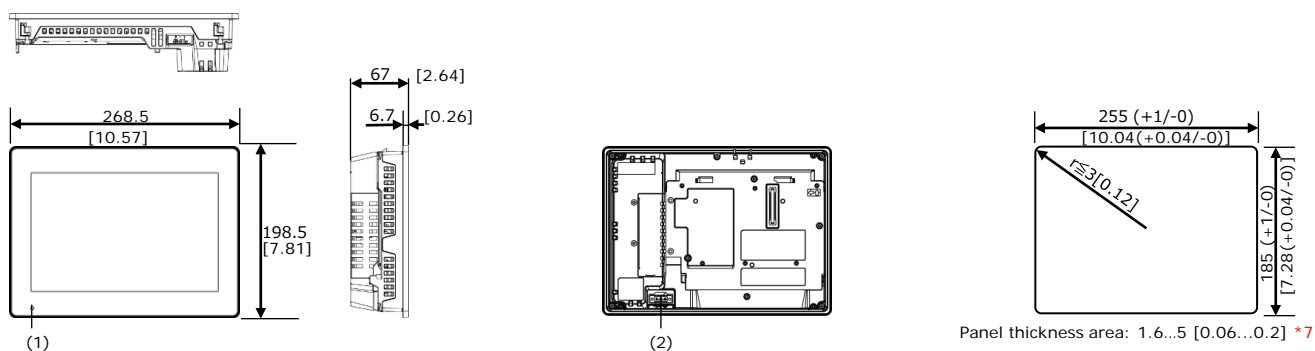
SP-5600WA

mm [in.]



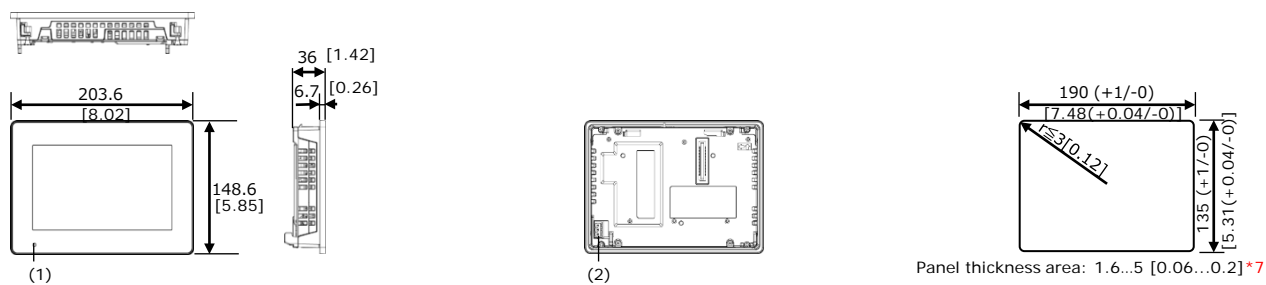
(1) Status LED (2) Power Supply Connector

SP-5500WA



(1) Status LED (2) Power Supply Connector

SP-5400WA



(1) Status LED (2) Power Supply Connector

*7 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.