Display Module - Premium Display

19" wide FWXGA	15" wide FWXGA	15" XGA	Built-in Wireless LAN model 12" XGA	12" XGA	10" SVGA
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 Module

PFXSP5 * * * * * D
(1) (2) (3) (4) (5)

(1) Size		(2) Wireless LAN		(3) Resolution		(4) Touch Panel		(5) Power Supply	
8	19"	60	Yes	T	TFT	C	Projected Capacitive (5 points multi-touch)	D	DC
7	15"	00	-	W	Wide TFT	P	Resistive Film (analog, 2 points multi-touch)		
6	12"					A	Resistive Film (analog, single-touch)		
5	10"								
4	7"								

*Color selectable display modules are available. In addition to Silver, there are three optional colors,
 Coated models are also available as a customized product. (SP-5800WC and SP-5700WC excluded)

Black | Beige | Off-white

✕

Box Module

PFXSP5 B * *
(6) (7)

(6) Module Type		(7) Class	
B	Box	41	Open
		10	Power

*Coated models are also available as a customized product.

■ Display Specifications

	Premium 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"	12"		10"
Resolution	1,366 x 768 pixels (FWXGA)		1,024 x 768 pixels (XGA)			800 x 600 pixels (SVGA)
Auto Scaling	Yes					
Effective Display Area	W409.8 x H230.4mm (W16.13 x H9.07 in)	W344.2 x H193.5mm (W13.55 x H7.62 in)	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.)
Display Colors	16 million 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	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 times or more		1 million times or more			

■ Electrical Specifications

		Premium Display					
		SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP
Rated Input Voltage		12...24 Vdc					
Input Voltage Limits		10.8...28.8 Vdc					
Voltage Drop		12 Vdc : 1.25 ms or less 24 Vdc: 5 ms or less					
Power Consumption [*1]	Max	19 W	17 W	22 W	23 W	21 W	15 W
	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
	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
	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					
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 - Premium Display

■ Environmental Specification

	Premium Display					
	SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP
Surrounding Air Temperature	0...55 °C (32...131 °F)		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/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 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
Channel	Access Point mode*5: 1...11ch Client mode*6: North America US: 1...11 ch, Japan JP: 1...13 ch, Europe EU: 1...13 ch, Korea KR: 1...13 ch, China CN:1...13 ch, Taiwan TW: 1...11 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 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	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 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.)
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 H227.5 mm (W11.87 x 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.)
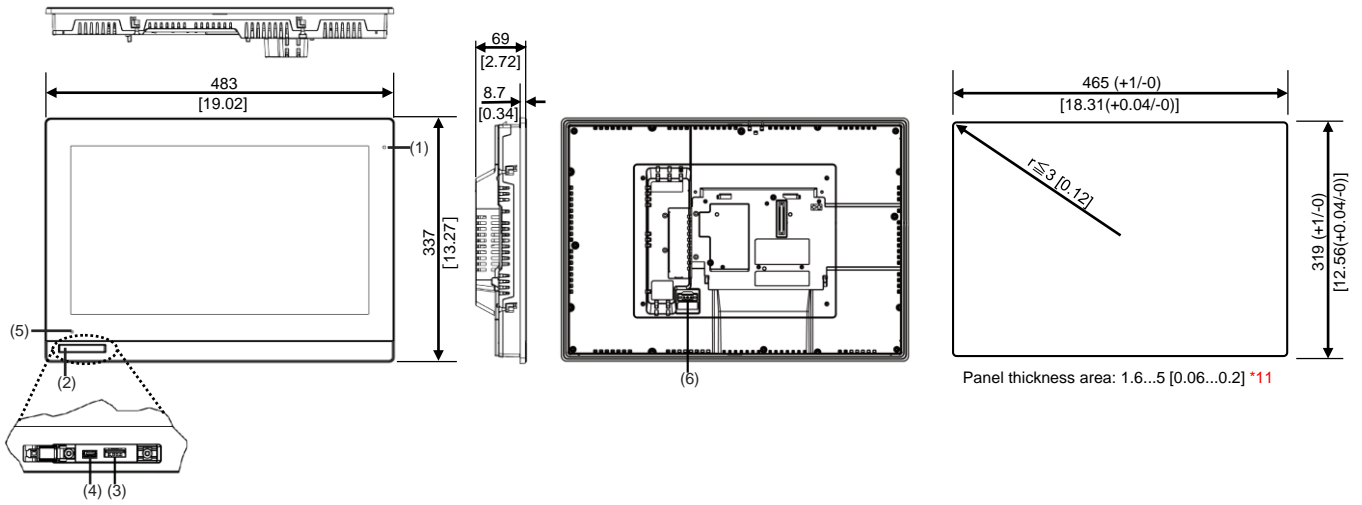*10 Weight for Display Module only
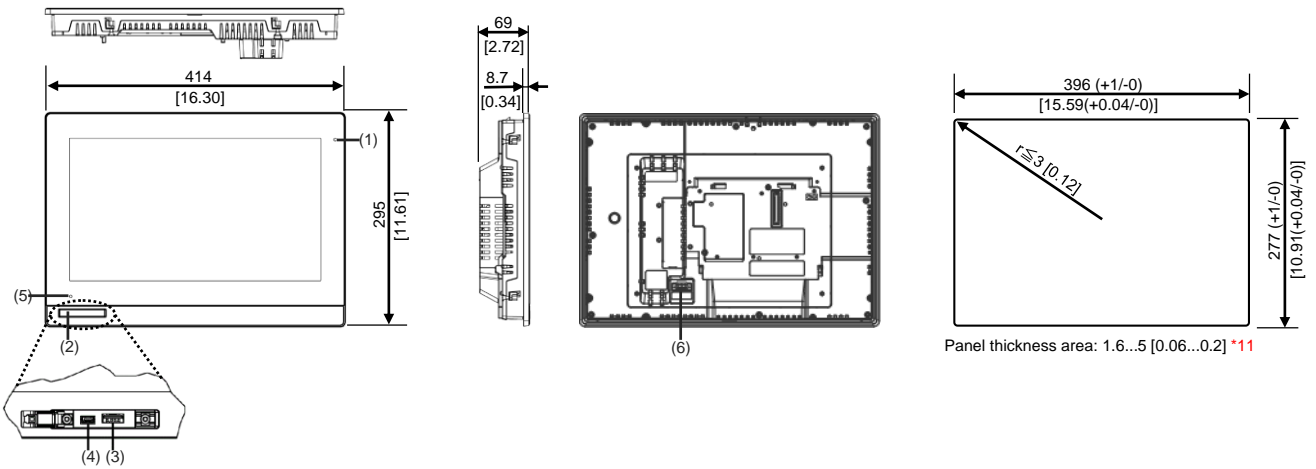
Display Module - Premium Display

■ External Dimensions / Parts Identification / Panel Cut Dimensions

SP-5800WC

mm [in.]

483 [19.02]
337 [13.27]
69 [2.72]
8.7 [0.34]

(1)
(5)
(2)
(4) (3)
(6)

465 (+1/-0) [18.31(+0.04/-0)]
319 (+1/-0) [12.56(+0.04/-0)]
r≦3 [0.12]

Panel thickness area: 1.6...5 [0.06...0.2] *11

SP-5700WC

414 [16.30]
295 [11.61]
69 [2.72]
8.7 [0.34]

(1)
(5)
(2)
(4) (3)
(6)

396 (+1/-0) [15.59(+0.04/-0)]
277 (+1/-0) [10.91(+0.04/-0)]
r≦3 [0.12]

Panel thickness area: 1.6...5 [0.06...0.2] *11

(1)Brightness Sensor (2)Front USB Cover (3)USB (Type A) Interface (4)USB (mini B) Interface (5)Status LED (6)Power Supply Connector
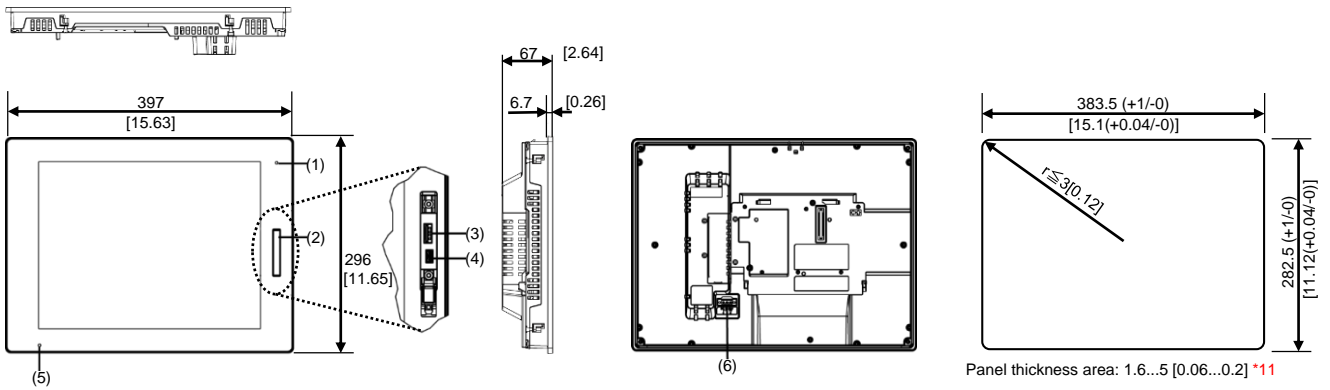
*11 Even if the installation wall thickness is within the recommended range for the "Panel Cut Dimensions", depending on wall's material, size, and installation location of this product and other devices, the installation wall could warp. To prevent warping, the installation surface may need to be strengthened.
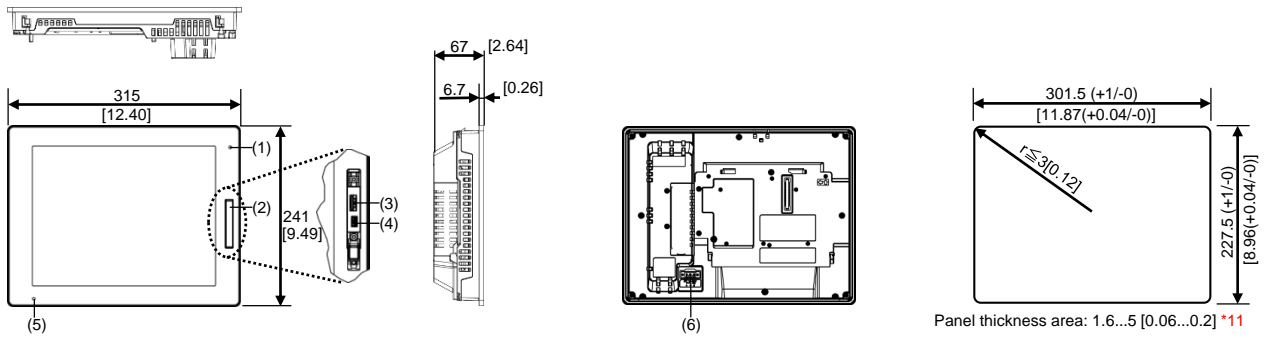
Display Module - Premium Display

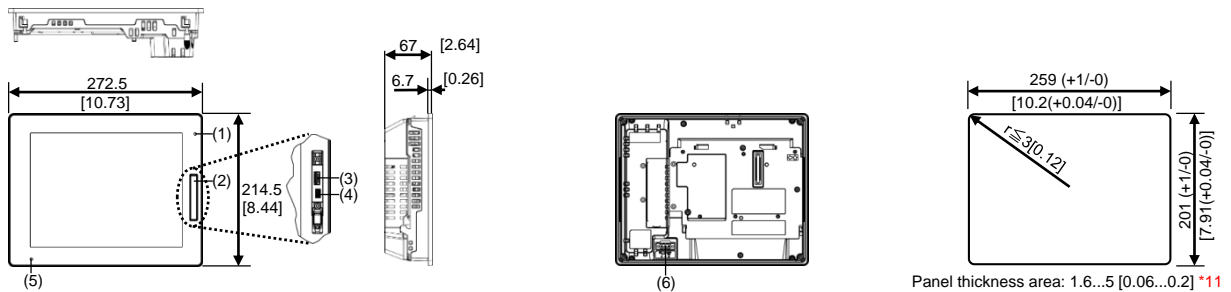■ External Dimensions / Parts Identification / Panel Cut Dimensions

SP-5700TP

mm [in.]

67 [2.64]
6.7 [0.26]
397 [15.63]
296 [11.65]

383.5 (+1/-0) [15.1(+0.04/-0)]
282.5 (+1/-0) [11.12(+0.04/-0)]
r≦3[0.12]

Panel thickness area: 1.6...5 [0.06...0.2] *11

(1) (2) (3) (4) (5) (6)

SP-5660TP / SP-5600TP

67 [2.64]
6.7 [0.26]
315 [12.40]
241 [9.49]

301.5 (+1/-0) [11.87(+0.04/-0)]
227.5 (+1/-0) [8.96(+0.04/-0)]
r≦3[0.12]

Panel thickness area: 1.6...5 [0.06...0.2] *11

(1) (2) (3) (4) (5) (6)

SP-5500TP

67 [2.64]
6.7 [0.26]
272.5 [10.73]
214.5 [8.44]

259 (+1/-0) [10.2(+0.04/-0)]
201 (+1/-0) [7.91(+0.04/-0)]
r≦3[0.12]

Panel thickness area: 1.6...5 [0.06...0.2] *11

(1) (2) (3) (4) (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

*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.

SP-5600WA
Model: PFXSP5600WAD

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 Module

PFXSP5 * * * * * D
(1) (2) (3) (4) (5)

(1) Size		(2) Wireless LAN		(3) Resolution		(4) Touch Panel		(5) Power Supply	
8	19"	60	Yes	T	TFT	C	Projected Capacitive (5 points multi-touch)	D	DC
7	15"	00	–	W	Wide TFT	P	Resistive Film (analog, 2 points multi-touch)		
6	12"					A	Resistive Film (analog, single-touch)		
5	10"								
4	7"								

*Color selectable display modules are available. In addition to Silver, there are three optional colors,
Coated models are also available as a customized product.

| Black | Beige | Off-white |

✕

Box Module

PFXSP5 B * *
(6) (7)

(6) Module Type		(7) Class	
B	Box	41	Open
		10	Power

*Coated models are also available as a customized product.

■ 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 pixels（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 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	-		
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

		Advanced Display		
		SP-5600WA	SP-5500WA	SP-5400WA
Rated Input Voltage		12...24 Vdc		
Input Voltage Limits		10.8...28.8 Vdc		
Voltage Drop		12 Vdc: 1.25 ms or less 24 Vdc: 5 ms or less		
Power Consumption *1	Max	11.5 W	8.5 W	6.5 W
	When power is not supplied to devices via front USB	-		
	When screen turns off the backlight (Standby Mode)	2.5 W or less		2 W or less
	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)		
Insulation Resistance		500 Vdc, 10 MΩ or more (between charging and FG terminals)		

*1 Power Consumption for Display Module only.

Display Module - Advanced Display

■ Environmental Specification

	Advanced Display		
	SP-5600WA	SP-5500WA	SP-5400WA
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/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

	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.)
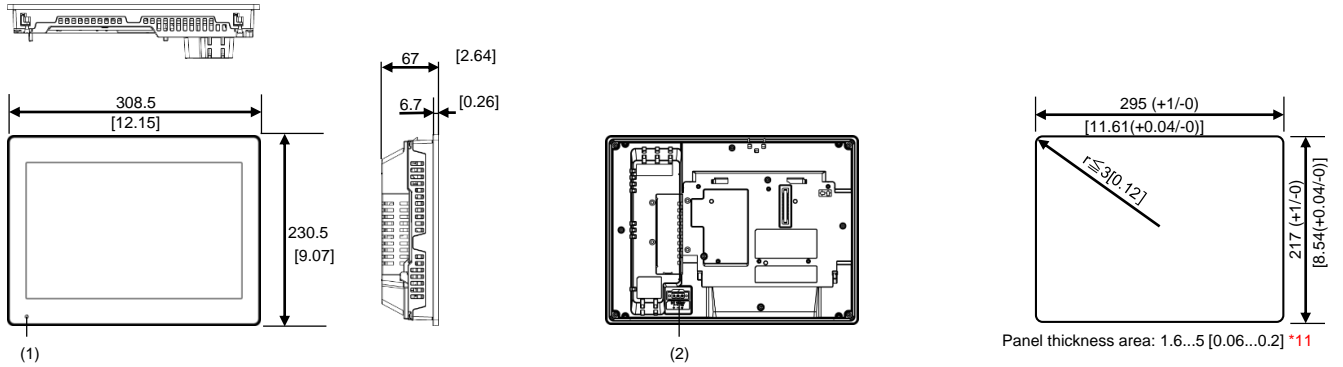*10 Weight for Display Module only
*12 When combined with Box Module, the depth is 67 mm (2.64 in.).
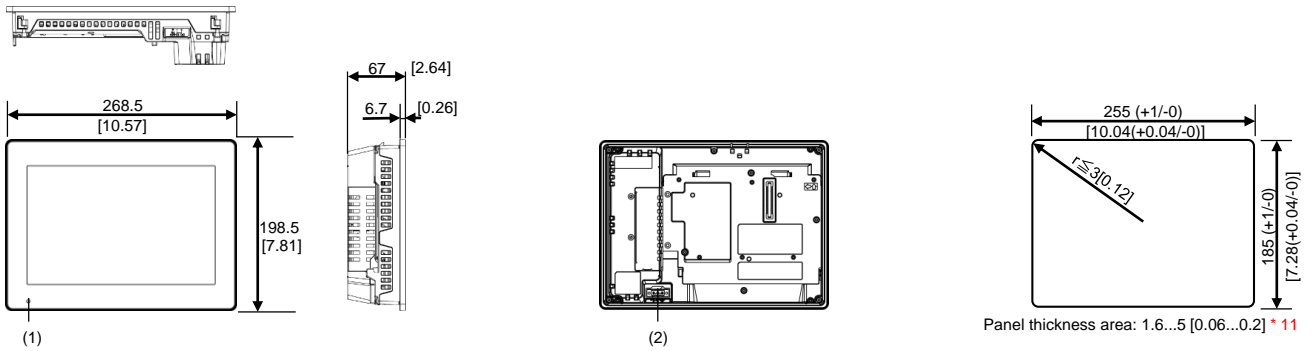
Display Module - Advanced Display

■ External Dimensions / Parts Identification / Panel Cut Dimensions

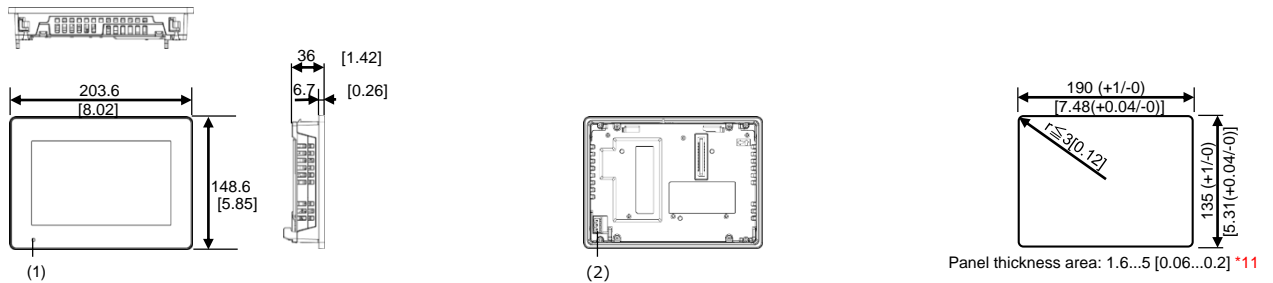## SP-5600WA

mm [in.]

308.5 [12.15]
230.5 [9.07]
(1)

67 [2.64]
6.7 [0.26]

(2)

295 (+1/-0) [11.61(+0.04/-0)]
r ≦ 3[0.12]
217 (+1/-0) [8.54(+0.04/-0)]

Panel thickness area: 1.6...5 [0.06...0.2] *11

SP-5500WA

268.5 [10.57]
198.5 [7.81]
(1)

67 [2.64]
6.7 [0.26]

(2)

255 (+1/-0) [10.04(+0.04/-0)]
r ≦ 3[0.12]
185 (+1/-0) [7.28(+0.04/-0)]

Panel thickness area: 1.6...5 [0.06...0.2] * 11

SP-5400WA

203.6 [8.02]
148.6 [5.85]
(1)

36 [1.42]
6.7 [0.26]

(2)

190 (+1/-0) [7.48(+0.04/-0)]
r ≦ 3[0.12]
135 (+1/-0) [5.31(+0.04/-0)]

Panel thickness area: 1.6...5 [0.06...0.2] *11

(1)Status LED   (2)Power Supply Connector

*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-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

Display Module

PFXSP5 * * * * * D
(1) (2) (3) (4) (5)

	(1) Size		(2) Wireless LAN		(3) Resolution		(4) Touch Panel		(5) Power Supply	
8	19"	60	Yes	T	TFT	C	Projected Capacitive (5 points multi-touch)	D	DC
7	15"	00	–	W	Wide TFT	P	Resistive Film (analog, 2 points multi-touch)		
6	12"					A	Resistive Film (analog, single-touch)		
5	10"								
4	7"								

*Color selectable display modules are available. In addition to Silver, there are three optional colors,
Coated models are also available as a customized product.

Black   Beige   Off-white

×

Box Module

PFXSP5B * *
(6) (7)

	(6) Module Type		(7) Class
B	Box	41	Open
		10	Power

*Coated models are also available as a customized product.

■ Electrical Specifications

		Open Box	Power Box
		SP-5B41	SP-5B10
Rated Input Voltage		12 Vdc (Supply from Display Module)	
Power Consumption*13	Max	25 W	25 W
	When power is not supplied to external devices	15 W or less	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	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/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)	

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, 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

	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

SP-5B41   mm [in.]

SP-5B10   mm [in.]

(1)Auxiliary Output/Speaker Output Interface (AUX) (2)DVI-D Output Interface (3)AUDIO Input Interface (LIN/MIC) (4)Status LED (5)Card Access LED (6)USB (Type A) Interface (7)USB (mini-B) Interface (8)Expansion Unit Interface Cover (EXT) (9)Storage Card Cover (10)System Card Cover (11)USB (Type A) Interface (12)Ethernet Interface (ETH1) (13)Ethernet Interface (ETH2) (14)Serial Interface (COM1) (15)Serial Interface (COM2)

(1)Auxiliary Output/Speaker Output Interface (AUX) (2)Status LED (3)Card Access LED (4)USB (mini-B) Interface (5)Expansion Unit Interface Cover (EXT) (6)Storage Card Cover (7)System Card Cover (8)USB (Type A) Interface (9)Ethernet Interface (ETH1) (10)Ethernet Interface (ETH2) (11)Serial Interface (COM1) (12)Serial Interface (COM2)