

Panel Mount Monitors/Touchscreens Cat Nos. SSM-x

General Description

Industrial flat panel monitors and touch screens, housed in a rugged enclosure, have superior quality and up-to-date features for a wide range of industrial applications.

These monitors are designed to provide the industrial user with excellent picture quality and rugged design for reliable continuous operation. A unique single-cutout, stud-free design and depths of only 1.82" to 2.4" make them a snap to install.

Monitors can be used with embedded PC's, such as the SoftPLC Web Studio Headless HMI models SSH-0x.



Options & Accessories

Available options vary by screen size, as outlined in the specification tables.

- Stainless Steel Bezel
- Washdown (NEMA4X rating)
- Touchscreen
- Hazardous Location rating

Accessories available include:

- KVM extension cables
- Mounting arms/brackets
- Power supplies

Features

- 7", 8", 10", 12", 15", 17", 19", 20" and 22" or 23" wide-style LCD monitors
- VGA/DVI-D input connection
- NEMA 4/12 or NEMA 4/4X/12, sealed to IP65/66 standards
- UL Rated for Hazardous Locations: Class I, II, III, Division 2 (*optional on 17" and 19" models only*)
- High resolution, high brightness and contrast
- Analog Resistive Touch Screen
- Only 1.82" to 2.39" deep
- Black carbon steel and stainless steel bezel options (*selected sizes*)
- 6 ft. cable included

ORDERING INFORMATION

Specify model by Catalog Number: **SSM-Screen Size-Options**
Example: SSM-12-SST is a 12" w/ Touchscreen, Stainless Steel Bezel

OPTION CODES

T	Resistive Touchscreen	Z	Hazardous Area Rated
SS	Stainless Steel NEMA 4X/IP66		

Model	SSM-7A-T	SSM-8A-T	SSM-10A-T	SSM-12A-T
Display				
Type / Number of Colors	TFT/LCD 262K	16.2M	262K	262K
Size / Aspect Ratio	7"	8"	10.1"	12.1"
Image Size (WxH)	800 X 480	800 X 600	1280 X 800	800 X 600
Native Resolution	VGA/DVI	VGA/DVI	VGA/DVI	VGA/DVI
Brightness (White)	350	350	350	330
Viewing Angle (Horiz/Vert)	140/120	140/125	160/160	160/140
Contrast Ratio	400: 1	500: 1	800: 1	300: 1
Backlight Brightness half-life	LED	LED	LED	LED
Touch Screen	5-wire resistive system; standard			
Input Connectors				
Input Signal Formats				
Horiz/Vert Scan	140/110	140/125	160/160	160/140
Response Rate				
Monitor Input				
Power Consumption	12.8W @ 12V	1.4A	1.4A	1.4A
Environmental				
Temperature	OPERATING: 0-50°C (32 to 122°F) STORAGE: -20-60 °C (-4 to 140°F)			
Humidity	10 TO 90% @40 °C, non condensing			
Operating Shock/Vibration				
Physical				
Enclosure Type	Aluminum front bezel and chassis			
Panel Rating	Black powder-coated carbon steel NEMA/UL Type 12/4; built to IP65/66 standards.			
Front Bezel Outside Dimensions (WxHxD)	200x146x39	231x176x50	285x189x48.9	317x243x53
Cutout Dimensions (WxH)	192x138	222x167	2725x176	303x229
Weight				
Compliances/Certifications				
Electrical	UL 1950 /cUL Recognized, UL 508A, FCC Class A, CE	UL 60950 3 rd Edition / cUL Recognized, UL 508A, CAN ICES-3A/NMB-3A, CE		
Hazardous Location	N/A			

Model	SSM-12-x	SSM-15A-T	SSM-15-x
Display			
Type / Number of Colors	262K		Thin-film transistor (TFT) Active Matrix Liquid Crystal / 16.7 Million Colors
Size / Aspect Ratio	12.1" diagonal / 4:3	15"	15" diagonal / 4:3
Image Size (WxH)	246x184.5mm (9.7x7.3")	1024 X 768	304x228mm (12.0x9.0")
Native Resolution	SVGA (800x600@60Hz)	VGA/DVI	XGA (1024x768@60Hz)
Pixel Pitch	0.308x 0.308mm		0.297 x 0.297mm
Brightness (White)	450 nits (cd/m ²)	350	400 nits (cd/m ²)
Viewing Angle (Horiz/Vert)	178° /178°	170/170	170° /170°
Contrast Ratio			1500:1
Backlight Brightness half-life	LED 60,000 hours	LED	LED 70,000 hours
Video			
Input Connectors			HD-15, DVI-D
Input Signal Formats			RGB, Sep H/V sync: DVI
Horiz/Vert Scan	30-60 kHz / 50-75 Hz		31-73 kHz / 50-76 Hz
Response Rate	12ms		35ms
Electrical			
Monitor Input	100-240VAC, .4/2A, 60/50Hz or 9.6-36.6VDC, 2.5- 0.65A	100-240VAC, .5/2.5A, 60/50 Hz or 9.6-36.6VDC, 2.5 to 0.65A	100-240VAC, .5/2.5A, 60/50 Hz or 9.6-36.6VDC, 2.5 to 0.65A
Power Consumption	~ 14.9W	1.4A	~ 16.8 W
Environmental			
Temperature	OPERATING: 0-50°C (32 to 122°F) STORAGE: -20-60 °C (-4 to 140°F)		0 to 60°C (32 to 140°F)
Humidity	10 TO 90% @40 °C, non condensing		20% to 90% non-condensing
Operating Shock/Vibration	15 g, 6msec, half-sine / Operating (sine); 1.0g swept sine 9-500Hz; Transport (random); 0.1g ² /Hz, 10-200Hz, 0.03g ² /Hz, 200-2000Hz		
Physical			
Enclosure Type	Panel mount; rear collar compresses gasket against panel (5/16" max panel thickness), held by M5 studs		
Panel Rating	Stainless: NEMA/UL Type 12/4/4X; IP65/66 standards	Black powder-coated carbon steel NEMA/UL Type 12/4; built to IP65/66 standards.	Black powder-coated carbon steel NEMA/UL Type 12/4; built to IP65/66 standards. Stainless steel: NEMA/UL Type 12/4/4X; IP65/66 standards
Front Bezel Outside Dimensions (WxHxD)	338x296x263x7mm 13.31x11.64x0.28"	410x310x53mm	437.8x353.6x7mm 17.24x13.92x0.28"
Cutout Dimensions (WxH)	308 x 263mm 12.2x10.35"	392x292mm	406.9 x 323.1mm 16.02x12.72"
Net / Shipping Weight	8.5Kg / 11.4 lbs	4.4Kg / 9.7Lbs	14 Kg / 18 lbs
Touch Screen Option	5-wire resistive system; emulates a mouse; serial RS-232 or USB interface to host computer		
Compliances/Certifications			
Electrical	UL 1950 /cUL Recognized, UL 508A, FCC Class A, CE		UL 60950 3 rd Edition / cUL Recognized, UL 508A, CAN ICES-3A/NMB-3A, CE
Enclosure, Environmental	Aluminum front bezel and chasis		UL 50E, IEC 60721-3 (Reliability), WEEE (Registration No. WEE/DJ1859ZX for UK only)
Hazardous Location	N/A		N/A
Ordering Options			
Window Options	Analog Resistive Touch Screen		
Bezel Options	Stainless Steel		Stainless Steel or black powder-coated carbon steel
Power Options	9-36 V DC, 5 A, 3pin terminal block: power supply included		AC or DC input
Hazardous Location	N/A		

Model	SSM-17-x	SSM-19-x	SSM-20-x
Display			
Type / Number of Colors	16.7 million		Thin-film transistor (TFT) Active Matrix Liquid Crystal / 16.7 Million Colors
Size / Aspect Ratio	17" diagonal / 5:4	19" diagonal / 5:4	20" diagonal / 4:3
Image Size (WxH)	338x270mm (13.3x10.6")	376x301 mm (14.8"x11.9")	408x306mm (16.1x12.1")
Native Resolution	SVGA (1280x1024@60Hz)	SXGA(1280X1024@ 60HZ)	UXGA (1600x1200@60Hz)
Pixel Pitch	0.264x 0.264mm	0.294mmX0.294mm	0.255 x 0.255mm
Brightness (White)	250 nits (cd/m ²)	250 nits ((cd/m ²)	300 nits (cd/m ²)
Viewing Angle (Horiz/Vert)	170° /160°	170°/160°	178° /178°
Contrast Ratio			800:1
Backlight Brightness half-life	LED 50,000 hours	LED 40,000 hours	6 CCFt's, 45,000 hours
Video			
Input Connectors	HD-15, DVI-D		HD-15, DVI-D
Input Signal Formats	RGB, Sep H/V sync: DVI		RGB, Sep, H/V, SoG: DVI
Horiz/Vert Scan	24-82 kHz / 50-75 Hz	24-82kHz/50-75/Hz	30-81 kHz / 56-76 Hz
Response Rate	5ms	5ms	16ms
Electrical			
Monitor Input	100-240VAC .4/.2A,60/50Hz	100-240VAC, .5/.25A, 60/50 Hz or 9.6-36.6VDC, 2.5 to 0.65A	100-240VAC, 0.8/0.4A, 60/50 Hz
Power Consumption	~ 20W	~ 18 W	~ 55 W
Environmental			
Temperature	0 to 50°C (32 to 122°F)		0 to 50°C (32 to 122°F)
Humidity	20% to 90% non-condensing		20% to 90% non-condensing
Operating Shock/Vibration	15 g, 6msec, half-sine / Operating (sine); 1.0g swept sine 9-500Hz; Transport (random); 0.1g ² /Hz, 10-200Hz, 0.03g ² /Hz, 200-2000Hz		
Physical			
Enclosure Type	Panel mount; rear collar compresses gasket against panel (5/16" max panel thickness), held by M5 studs		
Panel Rating	Stainless: NEMA/UL Type 12/4/4X; IP65/66 standards	Black powder-coated carbon steel NEMA/UL Type 12/4; built to IP65/66 standards. Stainless steel: NEMA/UL Type 12/4/4X; IP65/66 standards	Black powder-coated carbon steel NEMA/UL Type 12/4; built to IP65/66 standards. Stainless steel: NEMA/UL Type 12/4/4X; IP65/66 standards
Front Bezel Outside Dimensions (WxHxD)	338x296x263mmx7mm 13.31x11.64x0.28"	437.8x353.6x7mm 17.24x13.92x0.28"	437.8x353.6x7mm 17.24x13.92x0.28"
Cutout Dimensions (WxH)	308 x 263mm 12.2x10.35"	453.4 mm x 366.8 mm (17.85" x 14.44")	406.9 x 323.1mm 16.02x12.72"
Net / Shipping Weight	8.5 lbs / 11.4 lbs	18lbs / 22 lbs.	14 lbs / 18 lbs
Touch Screen Option	5-wire resistive system; emulates a mouse; serial RS-232 or USB interface to host computer		
Compliances/Certifications			
Electrical	UL 1950 /cUL Recognized, UL 508A, FCC Class A, CE	UL 1950 /cUL Recognized, UL 508A, FCC Class A, CE	UL 60950 3 rd Edition / cUL Recognized, UL 508A, CAN ICES-3A/NMB-3A, CE
Enclosure, Environmental			UL 50E, IEC 60721-3 (Reliability), WEEE (Registration No. WEE/DJ1859ZX for UK only)
Hazardous Location	N/A	Listed for class 1, division 2 Groups a,b,c,d; recognized for class 2 division 2, groups f, g; class 3; temp code T5	N/A
Ordering Options			
Window Options	Analog Resistive Touch Screen		
Bezel Options	Stainless Steel	Stainless Steel or black powder-coated carbon steel	
Power Options	AC or DC input		
Hazardous Location	N/A		

Model	SSM-21-T	SSM-22x	SSM-23X
Display			
Type / Number of Colors	Thin-film transistor (TFT) Active Matrix Liquid Crystal / 16.7 Million Colors		
Size / Aspect Ratio	19" diagonal / 5:4	22" diagonal / 16:10	23" diagonal / 16:9
Image Size (WxH)	376x301.5mm (14.8x11.9")	474x296mm (18.7x11.7")	509X2286 (20.1X11.3.")
Native Resolution	SXGA (1280x1024@60Hz)	WSXGA (1680x1050@60Hz)	HD1080P (1920X1080@60Hz)
Pixel Pitch	0.294x 0.294mm	0.282 x 0.282mm	0.265 x 0.265mm
Brightness (White)	250 nits (cd/m ²)	250 nits (cd/m ²)	250 nits (cd/m ²)
Viewing Angle (Horiz/Vert)	170° /160°	170° /160°	178° /178°
Contrast Ratio	1000:1 (typ.); 10,000,000:1 (dyn.)	1000:1 (typ.); 10M:1 (dyn.)	1000:1 (typ.); 20M:1 (dyn.)
Backlight Brightness half-life	LED 40,000 hours	LED 50,000 hours	LED 40,000 hours
Video6			
Input Connectors	HD-15, DVI-D, optional DisplayPort** or BNC***		
Input Signal Formats	RGB, Sep, H/V sync: DVI	RGB, Sep, H/V sync: DVI	RGB, Sep H/v sync:DVI
Horiz/Vert Scan	24-82 kHz / 50-75 Hz	24-82 kHz / 50-85 Hz	24-82 kHz / 50/85Hz
Response Rate	5ms	5 ms	5ms
Electrical			
Monitor Input	100-240VAC, 1.5/0.75A, 60/50 Hz or 9.6-36.6VDC, 2.5 to 0.65A	100-240VAC, 1.50/0.75A, 60/50 Hz	100-240VAC, 1.5/0.75A, 60/50 Hz or 9.6-36.6VDC, 2.5 to 0.65A
Power Consumption	~ 18W	~ 26 W	~ 24 W
Environmental			
Temperature	0 to 50°C (32 to 122°F)		
Humidity	20% to 90% non-condensing		
Operating Shock/Vibration	15 g, 6msec, half-sine / Operating (sine); 1.0g swept sine 9-500Hz; Transport (random); 0.1g ² /Hz, 10-200Hz, 0.03g ² /Hz, 200-2000Hz		
Physical			
Enclosure Type	Panel mount; rear collar compresses gasket against panel (5/16" max panel thickness), held by M5 studs		
Panel Rating	Black powder-coated carbon steel NEMA/UL Type 12/4; built to IP65/66 standards. Stainless: NEMA/UL Type 12/4/4X; IP65/66 standards		
Depth behind Panel	54.5 mm *2.15")	51.8 mm (2.04")	52.1mm (2.05")
Front Bezel Outside Dimensions (WxHxD)	482.6mmx398.8mmx 7mm 19.0"x15.7"x0.28"	559mmx375mmx7mm 22"x14.75"x0.28"	597mmx375mmx7mm 23.5"x14.75"x0.28"
Cutout Dimensions (WxH)	453.4mm x 366.8mm 17.85"s14.44"	528.7mm x 342.3mm 20.81"x13.48"	556.7mmx342.4mm 22.31"x13.48"
Net / Shipping Weight	18 lbs / 22 lbs	19 lbs / 23 lbs	18 lbs / 21lbs
Touch Screen Option	5-wire resistive system; emulates a mouse; serial RS-232 or USB interface to host computer		
Compliances/Certifications			
Electrical	UL 1950 /cUL Recognized, UL 508A, FCC Class A, CE	UL 60950 3 rd Edition / cUL Recognized, UL 508A, CAN ICES-3A/NMB-3A, CE	
Enclosure, Environmental	UL 50E, IEC 60721-3 (reliability), WEEE		
Hazardous Location	Listed for Class 1, Div. 2, Groups A-D Recognized for Class II, Div. 2, Groups F,G; Class III, Temp. Code T5	N/A	N/A
Ordering Options			
Window Options	Analog Resistive Touch Screen		
Bezel Options	Stainless steel or black powder-coated carbon steel		
Power Options	AC or DC Input	AC Input	AC Input
Hazardous Location	UL Rated for Class I-III, Div.2 Hazardous Locations	N/A	N/A