

Nematron M1500SRT Industrial Display

15.0" Panel Mount Touchscreen Sunlight Readable Display

UL/cUL Class I Div 2 Approved

Sunlight Readable LED Backlit Display

Analog Resistive Touchscreen

Aluminum Front Bezel

NEMA 4/4X/12, IP66

55°C Operating Temp

Industrial Grade Power Supply

Made in USA



Nematron
by COMARK

DS M1500SRT, Rev A

NEMA



Made in USA

Overview

The M1500SRT is ideal for harsh applications that may have bright ambient lighting, but may also require the ruggedness of an industrial monitor.

The M1500SRT features a 1500 Nit LED-backlit display. With significantly higher brightness than standard CCFL-backlit displays, the M1500SRT maintains high contrast in bright direct or indirect sunlit conditions. The auto-sensor feature automatically

adjusts the display brightness according to bright or dim conditions, reducing user eye strain, especially in dimly lit conditions. Toggle buttons on the front bezel make it convenient for a user to adjust display brightness up or down.

The M1500SRT is tested and approved for Class I Div 2 hazardous locations when installed in a NEMA type enclosure with appropriate wiring methods.

Standard Configuration

- 15" XGA Color TFT LED-backlit Display
- 1500 Nit High Contrast Display
- 5-wire Ultra-clear Analog Resistive Touchscreen
 - Optional Non-Touch clear polycarbonate window
- Ultra-Thin panel mounting depth, 2.4" behind bezel
- User-adjustable brightness toggle buttons on front bezel
- Auto-sensor for manual or auto adjusting brightness based on brightly or dimly lit conditions
- Manual Standby button
- NEMA 4/4X/12 front bezel
 - Optional 304 stainless steel front bezel
- Simplified installation with no studs
- Integral 100-240 VAC power supply
 - Optional isolated 24 VDC input power
- Accepts analog 15-pin video input or DVI input
- RS-232 or USB interface for touchscreen
- UL and cUL Ordinary Locations Listed
- UL and cUL Hazardous Locations Listed
 - Class I Division 2, Groups A, B, C, & D; Class II Division 2, Groups F & G; Class III when mounted in a NEMA enclosure
- FCC & CE Compliant
- 2-Year warranty

Technical Specifications



Physical

Overall Dimensions	12.80" x 15.80" x 2.95" (325.1mm x 401.3mm x 74.9mm)
Panel Mounting Depth	2.4" (61.0mm)
Cutout Dimensions	12.00" x 15.00" (305.0mm x 381.0mm)
Weight	14.0 lbs (6.35kg)
Shipping Weight	19.0 lbs (8.62kg)
Option Weight (SS)*	+3.5 lbs (1.58kg)*

* Additional weight for Stainless Steel option.

Display

Display Diagonal	15.0" (381.0mm)
Display Size H x V	11.97" x 8.98" (304.0mm x 228.1mm)
Native Resolution	XGA, 1024 x 768
Aspect Ratio	4:3
Brightness	1500 nit (minimum) ¹
Contrast Ratio	600:1 (through touchscreen)
Horz/Vert Viewing Angle	160°/160°
Backlight Life / Typical	50,000 hrs
Touchscreen	5-wire Analog Resistive; No Touchscreen option

¹ Adjust turned off with full brightness will yield 1500 nit minimum.

Peripherals

Available I/O	(1) Analog Video Port, (1) Digital Video (DVI) Port, Touchscreen inputs: (1) RS-232, (1) USB
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Power

Input Power	50W
AC Input Voltage	100-240 VAC, 50-60 Hz, 0.8 A Maximum
DC Input Voltage	18-36 VDC, 2.75 A Maximum

Technical Specifications

Environmental

	Operating	Non-operating
Temperature ³	0°C to 55°C	-20°C to 70°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock ⁴	15g peak acceleration, 11msec	30g peak acceleration, 11msec
Vibration (5-2000 Hz) ⁴	.006" peak to peak displacement, 1.0g maximum acceleration	.015" peak to peak displacement, 2.5g maximum acceleration
Altitude ⁵	Sea level to 10,000 feet	Sea level to 40,000 feet

³ Temperature specifications are for air temp surrounding the unit (i.e. inside any enclosure being utilized). Meets US Federal Requirements specified in 46 CFR 111.01-15 (d) for offshore electrical systems.
⁴ Shock & Vibration specifications established with Solid State drives and no rotating media.
⁵ Altitude specification is established by using all internal component specifications.

Compliance

NEMA Rating	NEMA 4/4X/12, IP66
FCC	47 CFR, Part 15, Class A
EU CE Marking	CE, EN 55022: Class A, EN 61000-3-3, EN 61000-6-2, IEC 60950-1
Agency Approvals *	UL508 Listed, ANSI/ISA 12.12.01-2012 ⁶ , cUL Listed CSA C22.2, #142, cUL Listed CSA 22.2, #213

* Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F & G; Class III; Temp. Code: T5, when installed on a flat surface of a Type 1, 4, 4X, or 12 enclosure.

Front Panel

Front Panel Options	Powder-Coated Aluminum Front Panel; with No Logo; Machined 304 Stainless Steel ⁷
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⁷ Check factory for availability and delivery schedule. M1500SRT stainless front panels are not always stocked and may take up to 6 weeks for delivery.

Features

- Optional 5-wire Analog Resistive Touchscreen
- Integral 100-240 VAC or 24 VDC Power Supply
- UL/cUL 508, Class I Div 2, CE Approvals
- I/O Connectivity
- USB Touchscreen Retention Cable
- Panel Mounting via Clips
- VESA Mounting M1500 - 75mm
- Made with Pride in the USA



Standard 2-year warranty
- Covers parts and service



Order Number Generation

Base Unit Configuration: M1500SRT, 15-inch NEMA 4/4X/12 panel mount, TFT LED-backlit flat panel monitor with 5-wire analog resistive touch screen, built in AC power supply, and powder coated aluminum front panel. Units ship with AC wiring receptacle, 10' VGA cable, 10' RS-232 cable (touchscreen equipped units only), 3m USB cable (touchscreen equipped units only), mounting hardware, and operator's guide (DVI cable sold separately).



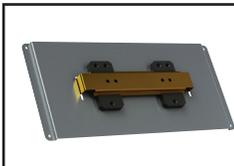
M1500

Input Options:	_____
SRT	Touchscreen (analog resistive)
SR	No Touchscreen (clear polycarbonate window)
Power Supply:	_____
blank	100-240 VAC
-DC	Isolated 24 Volt DC
Front Panel:	_____
blank	Powder Coated Aluminum
-NL	Powder Coated Aluminum w/o Logo
-SS	Machined 304 Stainless Steel w/o Logo ¹

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Accessories

CBL-3-VGA	15-Pin analog VGA cable, 3' length
CBL-10-VGA	15-Pin analog VGA cable, 10' length
CBL-25-VGA	15-Pin analog VGA cable, 25' length
CBL-50-VGA	15-Pin analog VGA cable, 50' length
CBL-3-RS232	Serial RS-232 touch screen cable, 3' length
CBL-10-RS232	Serial RS-232 touch screen cable, 10' length
CBL-25-RS232	Serial RS-232 touch screen cable, 25' length
CBL-50-RS232	Serial RS-232 touch screen cable, 50' length
CBL-3-USB	USB touch screen cable, 3' length
CBL-10-USB	USB touch screen cable, 10' length
CBL-15-USB	USB touch screen cable, 15' length
CBL-3M-DVI	DVI (type D) video cable, 3 m length
CBL-3M-HDMI/DVI	3 meter HDMI to DVI-D video cable
CBL-25-HDMI/DVI	25 feet HDMI to DVI-D video cable
CBL-50-HDMI/DVI	50 feet HDMI to DVI-D video cable
PWR-AC	Plug for field wiring AC power
PWR-DC	Plug for field wiring DC power
MISC-CLIP	Mounting clip kit, includes 16 clips and screws
CBL-PWR-AC	6' AC wiring cable with standard 3-prong US end on one side and Phoenix Power Wiring connector with cover on other end. NOTE: NOT allowed for use in Hazardous Conditions.



MTG-DIN-nPC300

DIN Rail Mounting Kit includes DIN Rail bracket that mounts a Nematron nPC300 Node PC to M-Series monitors using the 75mm or 100mm VESA mounting pattern on the rear of the units.



MTG-DIN-nPC20

DIN Rail section for mounting a Nematron nPC20 Node PC to M-Series monitors using the 75mm or 100mm VESA mounting pattern on the rear of the units.