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Nematron M2200W Industrial Display

22.0" Panel Mount Touchscreen Widescreen Display

UL/cUL Class I Div 2 Approved

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





DS M2200W, Rev A









Made in USA

Overview

Offering unparalleled value and superb quality, the Nematron brand M-Series are high performance LED-backlit 12.1", 15", 17", 19", 21.5" and 22" widescreen color TFT flat panel monitors specifically designed for harsh industrial environments including Class I & II, Division 2 Hazardous Locations when mounted in a NEMA enclosure.

M-Series monitors accept standard analog VGA inputs and can display VESA1 video modes up to 1680 x 1050 with 16 million colors. An optional 5-wire analog touch-

screen is available that offers RS-232 or USB interface capability.

M-Series monitors are housed in heavy duty steel chassis with powder coated machined aluminum bezels. The monitors are certified to NEMA 4/4X/12 & IP65 standards, are UL/cUL listed, and meet CE requirements.

All M-Series monitors are shipped with a power input wiring receptacle, VGA cable, touchscreen cables, mounting hardware, manual and driver software.

Standard Configuration

- 22.0" WSXGA+ Color TFT LED-backlit LCD Display
- 5-wire Analog Resistive Touchscreen with RS-232 or USB interface
 - Optional non-Touch clear polycarbonate window
- Ultra-Thin panel mounting depth, less than 2.9" behind bezel
- NEMA 4/4X/12 front bezel
 - Optional 304 stainless steel front bezel *
- Integral 100-240 VAC power supply
 - Optional 24 VDC input power

- Simplified mounting clip installation with no studs
- Accepts analog 15-pin video input or DVI input
- 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

* Check factory for availability of M2200W stainless front panels - not always stocked and may take 6 weeks or more for delivery.



Technical Specifications



Physical

Overall Dimensions 15.00" x 22.00" x 2.95" (381.0mm x 558.8mm x 75.0mm)

Panel Mounting Depth 2.7" (68.6mm)

Cutout Dimensions 14.2" x 21.2" (360.68mm x 538.48mm)

 Weight
 23.0 lbs (10.43kg)

 Shipping Weight
 30.0 lbs (13.60kg)

 Option Weight (SS)*
 +6.0 lbs (2.72kg)*

* Additional weight for Stainless Steel option.

Display

Display Diagonal 22.0" (558.8mm)

Display Size H x V 18.65" x 11.65" (473.8mm x 296.1mm)

Native Resolution WSXGA+, 1680 X 1050

Aspect Ratio 16:10

Brightness 300 nit

Contrast Ratio 1000:1

Horz/Vert Viewing Angle 178°/178°

Backlight Life / Typical 50,000 hrs

Touchscreen 5-wire Analog Resistive; No Touchscreen option

Peripherals

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

Power

Input Power 60W

AC Input Voltage 100-240 VAC, 50-60 Hz, 1.0 A Maximum

DC Input Voltage 18-36 VDC, 4.5 A Maximum

Technical Specifications

Environmental

Operating
0°C to 55°C

Humidity
20% to 80% RH, noncondensing

Shock 4
15g peak acceleration, 11msec

Shock ⁴ 15g peak acceleration, 11msec

Vibration (5-2000 Hz) ⁴ .006" peak to peak displacement,

1.0g maximum acceleration

Altitude ⁵ Sea level to 10,000 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.

Non-operating

20% to 80% RH, noncondensing

30g peak acceleration, 11msec

2.5g maximum acceleration

Sea level to 40,000 feet

.015" peak to peak displacement,

-20°C to 70°C

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.

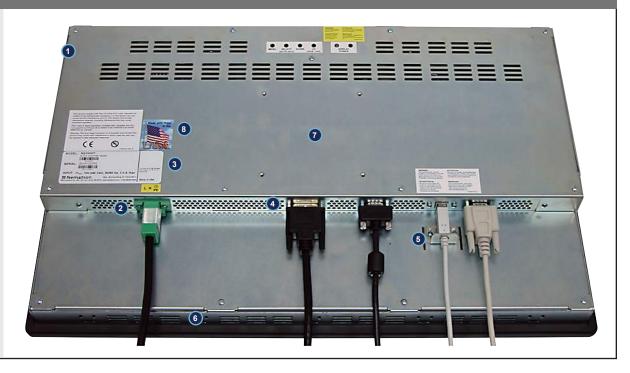
Front Panel

Front Panel Options Powder-Coated Aluminum Front Panel; with No Logo; Machined 304 Stainless Steel 7

⁷ Check factory for availability and delivery schedule. M2200W stainless front panels are not always stocked and may take 6 weeks or more for delivery.

Features

- 1. Optional 5-wire Analog Resistive Touchscreen
- 2. Integral 100-240 VAC or 24 VDC Power Supply
- UL/cUL 508, Class I Div 2, CE Approvals
- 4. I/O Connectivity
- 5. USB Touchscreen Retention Cable
- 6. Panel Mounting via Clips
- 7. VESA Mounting M2200 100mm
- 8. Made with Pride in the USA





Standard 2-year warranty

- Covers parts and service









Order Number Generation

Base Unit Configuration: Mxx00(T or WT), where x = 12, 15, 17, 19, 21, or 22 (for display size) NEMA 4/4X/12 panel mount, LED-backlit TFT 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).



M2200W

2200W 22.0" WSXGA+ LCD

Input Options: -

T Touchscreen

blank Non-Touch clear polycarbonate window

Power Supply: -

blank 100-240 VAC **-DC** Isolated 24 Volt DC

Front Panel: _

blank Powder Coated Aluminum (with Nematron nameplate)

-NL Powder Coated Aluminum without Logo
 -SS Machined 304 Stainless Steel ¹

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 Serial RS-232 touch screen cable, 10' length CBL-10-RS232 Serial RS-232 touch screen cable, 25' length CBL-25-RS232 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.



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