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Nematron M1200 Industrial Display

12.1" Panel Mount Touchscreen 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 M1200, 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

- 12.1" SVGA 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



Technical Specifications



M1200T

Physical

Overall Dimensions 10.475" x 12.9" x 3.42" (266.1mm x 327.7mm x 86.75mm)

Panel Mounting Depth 2.4" (61.0mm)

9.68" x 12.10" (245.9mm x 307.3mm) **Cutout Dimensions**

Weight 9.5 lbs (4.31kg) Shipping Weight 13.0 lbs (5.89kg) Option Weight (SS)* +2.5 lbs (1.13kg)*

* Additional weight for Stainless Steel option.

Display

Display Diagonal 12.1" (307.34mm)

Display Size H x V 9.69" x 7.26" (246.0mm x 184.5mm)

Native Resolution SVGA, 800 x 600

Aspect Ratio 4:3 450 nit Brightness Contrast Ratio 600:1 Horz/Vert Viewing Angle 140°/120° 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 25W

AC Input Voltage 100-240 VAC, 50-60 Hz, 0.5 A Maximum

DC Input Voltage 18-36 VDC, 2.0 A Maximum

Technical Specifications

Environmental

Operating
Temperature 3
0°C to 55°C

Humidity

Shock 4

Vibration (5-2000 Hz) 4

Operating
0°C to 55°C

20% to 80% RH, noncondensing
20% to 80% RH, noncondensing
30g peak acceleration, 11msec
30g peak acceleration, 11msec
30g peak to peak displacement,
015" peak to peak displacement,

1.0g maximum acceleration 2.5g maximum acceleration
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

Altitude 5

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

Features

- 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 M1200 - 75mm
- 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).



Display Size: _ 1200 12.1" SVGA LCD Input Options: -Touchscreen blank Non-Touch clear polycarbonate window Power Supply: blank 100-240 VAC -24 24 Volt DC -DC Isolated 24 Volt DC Front Panel: _ blank Powder Coated Aluminum (with Nematron nameplate)

M1200

| Accessories | |
|---|---|
| CBL-3-VGA CBL-10-VGA CBL-25-VGA CBL-50-VGA | 15-Pin analog VGA cable, 3' length 15-Pin analog VGA cable, 10' length 15-Pin analog VGA cable, 25' length 15-Pin analog VGA cable, 50' length |
| CBL-3-RS232 CBL-10-RS232 CBL-25-RS232 CBL-50-RS232 | Serial RS-232 touch screen cable, 3' length Serial RS-232 touch screen cable, 10' length Serial RS-232 touch screen cable, 25' length Serial RS-232 touch screen cable, 50' length |
| CBL-3-USB CBL-10-USB CBL-15-USB | USB touch screen cable, 3' length USB touch screen cable, 10' length USB touch screen cable, 15' length |
| CBL-3M-DVI | DVI (type D) video cable, 3 m length |
| CBL-3M-HDMI/DVI CBL-25-HDMI/DVI CBL-50-HDMI/DVI | 3 meter HDMI to DVI-D video cable 25 feet HDMI to DVI-D video cable 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. |

Powder Coated Aluminum without Logo

Machined 304 Stainless Steel



MTG-DIN-nPC300

-NL

-SS

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.

