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Nematron M1200-IECEx Industrial Display

12.1" Panel Mount Touchscreen Display

IECEx / ATEX Zone 2/22 Approved

Analog Resistive Touchscreen

Aluminum Front Bezel

NEMA 4/4X/12, IP66

55°C Operating Temp

Industrial Grade Power Supply

Made in USA





DS M1200-IECEx, Rev A















Made in USA

Overview

Offering unparalleled value and superb quality, the Nematron brand M-Series are high performance LEDbacklit 12.1", 15", 17", 19" and 22" widescreen color TFT flat panel monitors specifically designed for harsh industrial environments including IECEx and ATEX Zone 2 & 22 when mounted in an ATEX approved enclosure.

M-Series monitors accept standard analog VGA inputs and can display VESA1 video modes up to 1680 x 1050 with 16 million colors. A 5-wire analog touchscreen comes standard 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 & IP66 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
- Ultra-Thin panel mounting depth, less than 2.9" behind
- NEMA 4/4X/12, IP66 powder coated aluminium front
 - Optional 304 stainless steel front bezel
- Integrated isolated 24 VDC power supply
- Simplified mounting clip installation with no studs

- Accepts analog 15-pin video input or DVI input
- IECEx and ATEX Zone 2/22 approved when installed in an ATEX approved enclosure as described in DEMKO 14 ATEX 1374X and UL 16.0058X
- 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
- 2-Year warranty



Technical Specifications



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)

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

 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

Brightness 450 nit

Contrast Ratio 600:1

Horz/Vert Viewing Angle 140°/120°

Backlight Life / Typical 50,000 hrs

Touchscreen 5-wire Analog Resistive

Peripherals

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

Power

Input Power 25W

DC Input Voltage 18-36 VDC

DC Input Current 2.0 A Maximum

The DEMKO certificate is available online for downloading: http://www.comarkcorp.com/atex/demko_1374x_r2.pdf

The IECEx UL certificate is available online for downloading at: http://www.comarkcorp.com/iecex/ul_16_0058x_r0.pdf

Technical Specifications

Environmental

Operating
Temperature ³ 0°C to 55°C

Humidity 20% to 80% RH, noncondensing Shock 4 15g peak acceleration, 11msec Vibration (5-2000 Hz) 4 .006" peak to peak displacement

-2000 Hz) 4 .006" peak to peak displacement, 1.0g maximum acceleration

Altitude ⁵ Sea level to 10,000 feet

Non-operating -20°C to 70°C

20% to 80% RH, noncondensing

30g peak acceleration, 11msec

.015" peak to peak displacement, 2.5g maximum acceleration

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

IECEx Compliance UL 16.0058X

ATEX Compliance ATEX Zone 2/22 approved when installed in an approved enclosure as described in the certificate DEMKO 14 ATEX 1374X

Agency Approvals * UL508 Listed, ANSI/ISA 12.12.01-2012, 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

- 5-wire Analog Resistive Touchscreen
- Integrated isolated 24 VDC Power Supply
- 3. IECEx, ATEX Zone 2/22, UL/cUL 508, Class I, Div 2, CE Approval Label
- 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







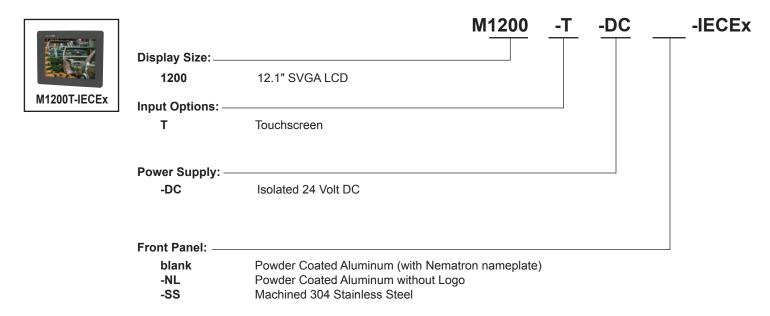






Order Number Generation

Base Unit Configuration: Mxx00(T or WT)-DC-IECEx, where x = 12, 15, 17, 19, or 22 (for display size) NEMA 4/4X/12/ IP66 panel mount, LED-backlit TFT flat panel monitor with 5-wire analog resistive touch screen, built in isolated 24 VDC power supply, and powder coated aluminum front panel. Units ship with DC 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).



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.



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.