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M-Series

Industrial Flat Panel Monitors in 15", 17" and 19" High Resolution LCDs



M1900



M1500



M1700



Overview

Offering unparalleled value and superb quality, the M-Series are high performance 15", 17" and 19" color TFT flat panel monitors specifically designed for harsh industrial environments including Class I & II, Division 2 Hazardous Locations.

M-Series monitors accept standard analog VGA inputs and can display all VESA video modes up to 1280 x 1024 with 16 million colors. An optional 5-wire analog touchscreen 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 standards, are UL/CUL listed, meet CE requirements and are RoHS compliant.

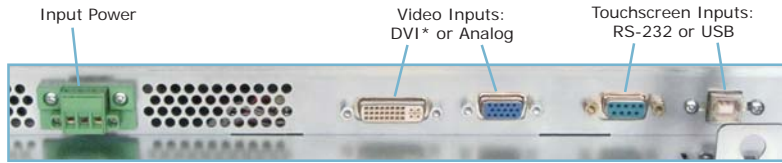
All M-Series monitors are shipped with a power input wiring receptacle, VGA cable, touchscreen cables, mounting hardware, manual and driver software.

Standard Features

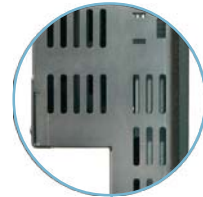
- 15" XGA to 19" SXGA Color TFT LCD Display
- Optional 5-wire Analog Resistive Touchscreen
- Ultra-Thin panel mounting depth, less than 2.7" behind bezel
- UL 508 and UL 1604 listed for Hazardous Locations: Class I, Division 2, Groups A, B, C, D and Class II, Division 2, Groups F and G
- NEMA 4/4X/12 front bezel
- 2-Year warranty
- RoHS Compliant
- Integral 100-240 VAC power supply
- Simplified installation with no studs
- Accepts analog 15-pin video input or DVI input
- VESA compliant - all modes up to SXGA, 16 million colors
- Optional 5-wire resistive touch screen with RS-232 or USB interface
- Optional 304 stainless steel front bezel
- Optional 24 VDC input power

Features & Benefits

Power & VGA Input Panel



* DVI cable sold separately. Consult factory for details.



Ultra-thin,
extremely
compact
design



Optional
5-wire Analog
Resistive
Touchscreen

Made with
Pride in
the USA

UL, cUL 508,
Class I, Div 2,
CE, & RoHS
Approvals

Integral
100-240
VAC or
24 VDC
Power
Supply



Powder Coated
Aluminum or
Stainless Steel
Front Panels



VESA Mounting

- M1500/1700: 75x75mm
- M1900: 100x100mm (M4 Threads)



**NEMA Panel
Mounting via
Clips**



**USB Touchscreen
Cable Retention**

- Required when installed in Class I, Div 2 locations



Meet all RoHS Hazardous
Safety Standards.



Technical Specifications

DISPLAY



M1500



M1700



M1900

	M1500	M1700	M1900
Display Diagonal	15.0" (381.0mm)	17.0" (431.8mm)	19.0" (482.6mm)
Display Sizes (Active Area H x V)	11.97" x 8.98" (304.0mm x 228.1mm)	13.30" x 10.64" (337.8mm x 270.3mm)	14.82" x 11.85" (376.4mm x 301.0mm)
Native Resolution	XGA, 1024 x 768	SXGA, 1280 x 1024	SXGA, 1280 x 1024
Displayable Colors	16M	16M	16M
Brightness, Typical	250 Nit	300 Nit	300 Nit
Contrast Ratio, Typical	800:1	800:1	1300:1
Horizon/Vertical View Angle, CR>5, Typical	150°/145°	176°/170°	178°/178°
Backlight Life, Typical	50,000 hrs	50,000 hrs	50,000 hrs

TOUCH SCREEN (all models)

Touch Screen Technology	ELO AccuTouch, 5-wire Analog Resistive
Interface	Internally via USB
Resolution	4096 x 4096
Positional Accuracy (Maximum Error)	0.18" (0.19" M1900) 4.57mm (4.83mm M1900)
Positional Accuracy (Standard Deviation of Error)	< 0.08" (< 2.0 mm)
Expected Life	>35,000,000 Activations

ELECTRICAL

AC Input Voltage	100-240 VAC, 50/60 Hz
AC Input Current	M1500 - 0.5 A Max M1700 - 1.0 A Max M1900 - 1.0 A Max
DC Input Voltage (optional)	18-36 VDC
DC Input Current (optional)	M1500 - 0.75 A Max M1700 - 1.15 A Max M1900 - 1.45 A Max
Input Power	M1500 - 25 W Typical M1700 - 30 W Typical M1900 - 35 W Typical

ENVIRONMENTAL

Operating Temperature	0°C to 50°C
Operating Humidity	20% to 80% RH, noncondensing
Operating Shock	15g peak acceleration, 11msec
Operating Vibration	0.006" peak to peak, 1g max
Operating Altitude	Sea level to 10,000 feet

AGENCY

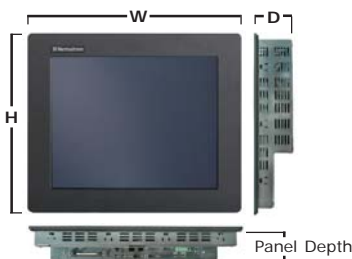
Front Panel NEMA Rating	NEMA 4/4X/12, IP65
FCC	47 CFR, Part 15, Class A
EU CE Marking Compliance	CE, EN 55022: Class A, EN 61000-3-3, EN 61000-6-2, IEC 60950-1, RoHS compliant
Safety Agency Approvals	UL508 Listed, UL 1604 Listed *, cUL Listed CSA C22.2, #142, cUL Listed CSA C22.2, #143 *

* Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Temp. Code: T4A

PHYSICAL

	M1500	M1700	M1900
Overall Dimensions (H x W x D)	12.80" x 15.80" x 2.65" (325.1mm x 401.3mm x 67.3mm)	14.48" x 17.14" x 2.85" (367.8mm x 442.0mm x 72.4mm)	15.70" x 18.66" x 2.95" (398.8mm x 474.0mm x 75.0mm)
Panel Mounting Depth	2.4" (61.0mm)	2.6" (66.0mm)	2.7" (68.6mm)
Cutout Dimensions (H x W)	12.00" x 15.00" (305.0mm x 381.0mm)	13.70" x 16.35" (348.0mm x 415.3mm)	14.90" x 17.75" (378.5mm x 450.9mm)
VESA Mount Pattern (M4 Threads)	75x75mm	75x75mm	100x100mm
Weight	14.0 lbs (6.35kg)	18.5 lbs (8.39kg)	22.5 lbs (10.21kg)
Shipping Weight	19.0 lbs (8.62kg)	23.5 lbs (10.66kg)	27.5 lbs (12.47kg)
Option Weight (SS)*	+3.5 lbs (1.58kg)*	+3.75 lbs (1.70kg)*	+4.0 lbs (1.81kg)*

* Additional weight for Stainless Steel option.



Cutout Dimensions

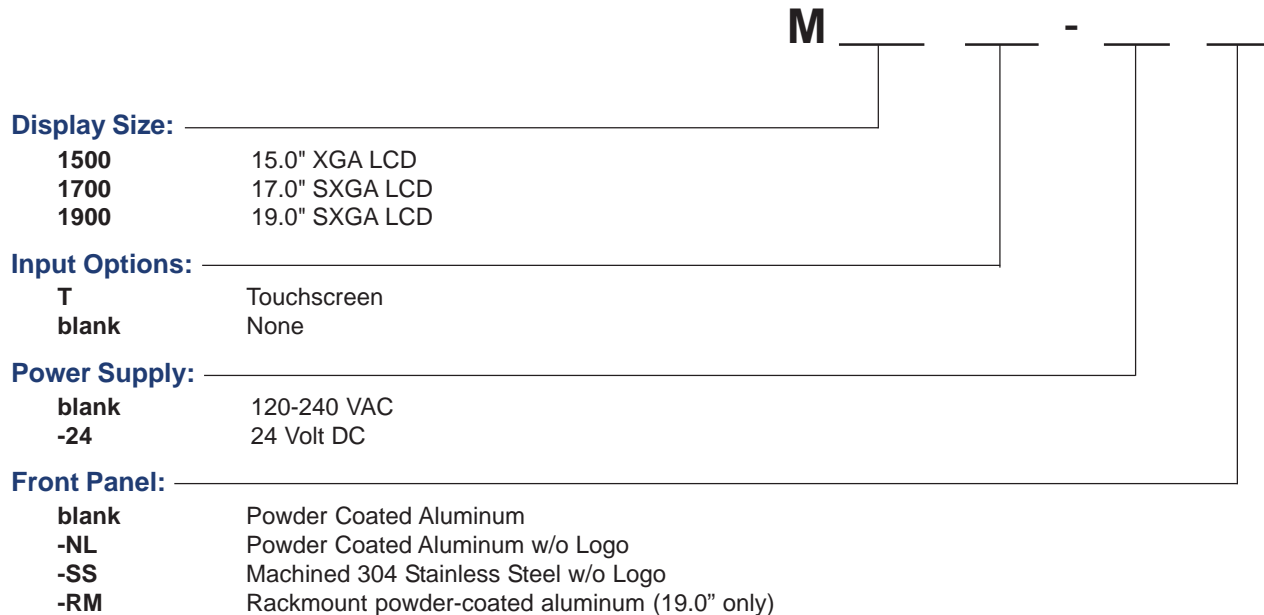
M1500	15.00" (W) 381.0mm
	12.00" (H) 305.0mm

M1700	16.35" (W) 415.3mm
	13.70" (H) 348.0mm

M1900	17.75" (W) 450.9mm
	14.90" (H) 378.5mm

Order Number Generation

Example unit configuration: Mx00T-24-SS, where **x** = 15, 17, or 19 (for display size) NEMA 4/4X/12 Panel mount XGA, TFT flat panel monitor with 5-wire analog resistive touch screen, 24V DC power supply, and Machined 304 Stainless Steel Front Panel. Ships with AC wiring receptacle, 6' VGA cable, 6' RS-232 cable, 2m USB cable, driver software, mounting hardware and operator's guide (DVI cable sold separately).



Accessories

CBL-10-VGA	15-Pin analog VGA cable, 10' length	MTG-CLIP	Mounting clip kit, includes 16 clips and screws
CBL-25-VGA	15-Pin analog VGA cable, 25' length	MTG-RM-M1500	Rackmount adapter plate for M1500/M1500T
CBL-50-VGA	15-Pin analog VGA cable, 50' length	MTG-RM-M1700	Rackmount adapter plate for M1700/M1700T
CBL-10-RS232	Serial RS-232 touch screen cable, 10' length	PWR-AC	Plug for field wiring AC power
CBL-25-RS232	Serial RS-232 touch screen cable, 25' length	PWR-DC	Plug for field wiring DC power
CBL-50-RS232	Serial RS-232 touch screen cable, 50' length		
CBL-10-USB	USB touch screen cable, 10' length		
CBL-15-USB	USB touch screen cable, 15' length		

Additional Models

Nematron offers additional models which are cut out compatible with units from other suppliers. These are for replacement installations only and are not recommended for new applications. Consult info@nematron.com for more details. Some examples are:

- Nematron M1900 replaces the Viewtronix SXT1811 and Xycom 5019
- Nematron M1502 replaces the Viewtronix/Xycom XT1502
- Nematron M1040 replaces the Viewtronix/Xycom VT1040



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