MD-219 Series

19-inch marine displays



Features and Benefits

- 19-inch display, 5:4 aspect ratio
- 300-nit or sunlight-readable 1000-nit LED backlight
- Color calibrated for ECDIS compliance
- Full range dimming, 0 to 100%
- SavvyTouch display controls
- Built-in RS-232/422/485 interfaces
- Dual power supplies (AC & DC)
- IP54-rated front panel (IP66 available by request)

Certifications



Introduction

The MD-219 Series of marine displays come with full range dimming, wide viewing angles, and optional optical bonding. These displays are built with a small-profile modular design that allows easier integration into industrial marine systems, reducing deployment costs and overall time-to-market.

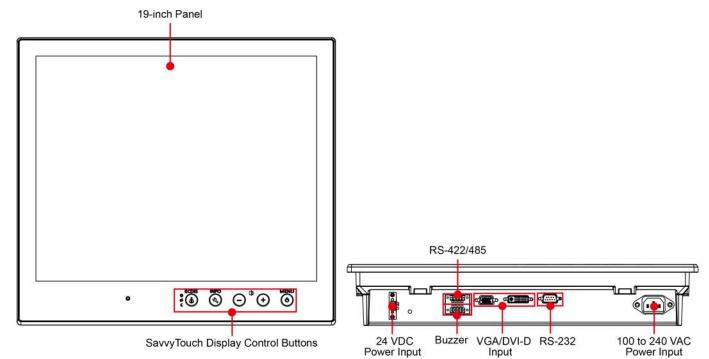
The innovative and user-friendly SavvyTouch display controls offer several unique features not found on any other marine display console: a proximity sensor for convenient adjustments in dark conditions, an info button for immediate updates on power status, and a quick-switch to adjust between day, dusk, and night-time ECDIS modes (for color-calibrated ECDIS models only).

The MD-219 Series displays are compliant with IEC 60945, DNV, ABS, and IACS E10, making them suitable for maritime applications. Their IP54rated (IP66-rated model available by request) enclosure provides additional protection against dust and moisture above and beyond the limits established by these international standards bodies.

ECDIS-approved models are also available, offering an excellent HMI solution for ECDIS charting and navigation stations.



Appearance



Specifications

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gray)
Z: 300 cd/m ² 1000 cd/m ²
t 1 (DB9 male) 35 ports x 1, software-selectable (terminal block)
bin DVI-D connectors (female) n D-sub connector (female)
219Z-HB: Capacitive Touch (PCAP) e
Z-HB: 4 points



Serial Interface	
Baudrate	50 bps to 115.2 kbps
Data Bits	5, 6, 7, 8
Flow Control	RTS/CTS, XON/XOFF, ADDC® (automatic data direction control) for RS-485, RTS Toggle (RS-232 only)
Parity	None, Even, Odd, Space, Mark
Stop Bits	1, 1.5, 2
Serial Signals	
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND
Power Parameters	
Input Voltage	100 to 240 VAC, 24 VDC (18 to 30 V)
Physical Characteristics	
Housing	Metal
IP Rating	IP54, front IP20, rear
Dimensions	429 x 387 x 75 mm (16.89 x 15.24 x 2.95 in)
Weight	7,800 g (17.20 lb)
Installation	Desktop, Panel mounting, VESA mounting
Environmental Limits	
Operating Temperature	-15 to 55°C (5 to 131°F)
Storage Temperature (package included)	-20 to 60°C (-4 to 140°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Standards and Certifications	
EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 1k V
Maritime	ABS, CCS, DNV-GL, IEC 60945
Safety	UL 60950-1
Warranty	
Warranty Period	LCD: 1 year System: 3 years
Details	See www.moxa.com/warranty

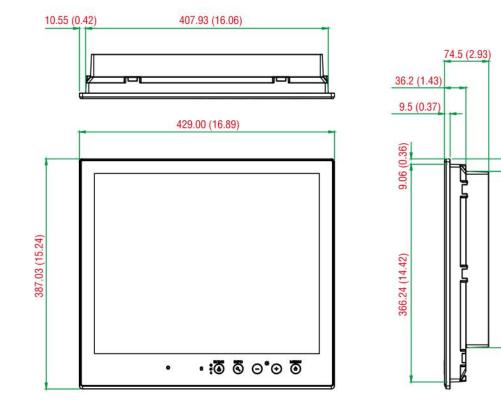


Package Contents

Device	1 x MD-219 Series display
Cable	1 x DVI-D cable 1 x VGA
Installation Kit	1 x terminal block, 2-pin 1 x terminal block, 5-pin
Documentation	1 x document and software CD 1 x quick installation guide 1 x warranty card

Dimensions

Unit: mm (inch)



Ordering Information

Model Name	Panel	Video Inputs	Touchscreen	Power Input
MD-219X	19" (5:4) 300 nits	1 x VGA 1 x DVI-D	-	24 VDC (18-30 V) 100-240 VAC
MD-219Z	19" (5:4) 300 nits	1 x VGA 1 x DVI-D	Multi-touch	24 VDC (18-30 V) 100-240 VAC
MD-219Z-HB	19" (5:4) 1000 nits	1 x VGA 1 x DVI-D	Multi-touch	24 VDC (18-30 V) 100-240 VAC

Accessories (sold separately)

Desktop Mounting Kits	
MPC-MD-2-19-DMTK w/ hinge	Desktop-mounting kit for 19-inch panels
MPC-MD-2-19-DMTK w/o hinge	Desktop-mounting kit for 19-inch panels, (no hinge)
Panel Mounting Kits	



21.04 (0.83)

296.53 (11.67)

MPC-MD-2-19-PMTK	19-inch panel-mounting kit, 10 mounting clamps
MPC-MD-2-19-RMTK	Rubber gasket for 19-inch panels
VESA Mounting Kits	
MPC-MD-2-19-VESAMTK	VESA kit for 19-inch panels (can be used with 100 x 100 mm or 280 x 150 mm VESA mounts)

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