

DSM200 *Multi-Function Graphic Display*



The DSM200 displays a multitude of information including AC generation, battery, compass, depth, engine data, fuel management, GPS, navigation, rudder indication, speed, tank monitor, weather, wind, and more.

Maretron's DSM200 is engineered and manufactured to the highest standards (IEC 60945 Maritime Navigation and Radio Communication Equipment). Its compact waterproof housing will provide years of reliable performance.

Products

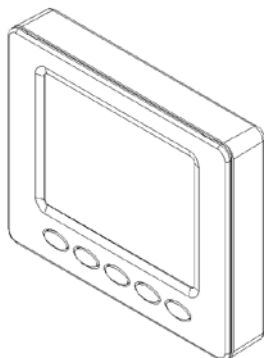
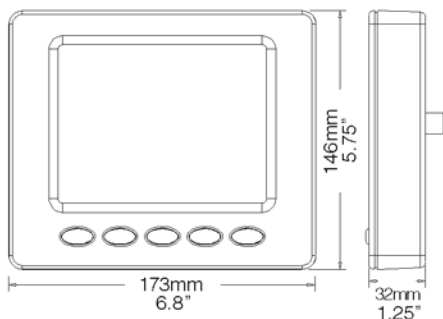
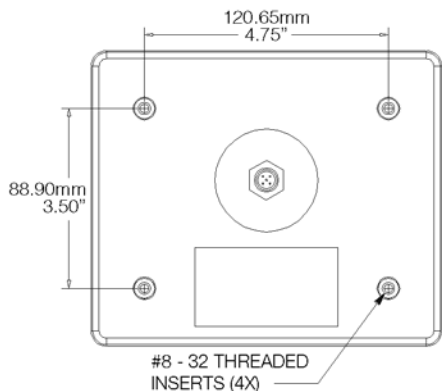
PART NUMBER	DESCRIPTION
DSM200-01	Monochrome Display (Gray Enclosure)
DSMMNTASSBLY	DSM200/DSM250 Gimbal Mount
DSM200CVR2PK	Package of (2) DSM200 Covers

Maretron's DSM200 is a high-resolution monochrome display that allows easy interpretation of NMEA 2000® instrument and navigation data through custom display configurations, featuring an easy-to-use five-key illuminated keypad.

Unlike traditional single-display units, DSM200 users can choose numeric, gauge, or graph formats in single or multiple displays, with cycling options possible for a wide range of favorite data. These multiple display options conserve mounting space and reduce overall system cost.

The DSM200 will directly connect with any NMEA 2000® network and display any or all information captured throughout the vessel. Various audio and visual alarms are also programmable.





Certifications Specifications

Parameter	Value	Comment
NMEA 2000® Connector	DeviceNet Micro-C	Industry Standard Waterproof
Display Technology	FSTN Transreflective LCD	Sunlight Readable
Display Resolution	320 x 240 Pixels	QVGA Resolution
Display Viewable Area	122mm W x 92mm H	5.7" Diagonal
Display Backlighting	Red LED	3-User-Programmed Levels 0-100%
Keyboard	5 Silicone Rubber Keys	Red LED Backlighting

Supported Data Display Types

Standard	Comment
NMEA 2000® Standard	Level A
Maritime Navigation and Radio Communication Equipment & Systems	IEC 61162-3
Maritime Navigation and Radio Communication Equipment & Systems	IEC 60945
FCC and CE mark	Electromagnetic Compatibility

Instrument Type	Data Types
AC Power	Gen. AC Current, Gen. AC Freq., Gen AC Voltage
Battery	Current, Temperature and Volts
Depth	Water Depth, Transducer Offset
Engine Monitor	Tach., Eng. Hrs., Oil, Coolant, Boost & Fuel Pres., Voltage, Oil & Coolant Temp., Fuel Rate
Environment	Barometer, Heat Index, Hum. Inside & Outside, Moon Phase, Sunrise, Sunset, Temp. Dew Point, Temp Eng.Room, Temp. Inside, Temp. Sea, Twilight AM & PM, Wind Chill
Fuel Management	Total Fuel Rate, Total Fuel Economy, Total Fuel Remaining
GPS	COG, SOG, DOP, Position, Satellites, Time
Heading	Heading, Rate of Turn, Variation, Pitch, Roll
Navigation	BOD, Drift, Set, XTE, TTG, ETA, VMG, DTW, BTW, Rolling Road, Datum, Waypoint Number & Name
Rudder Indicator	Rudder Position and Order
Speed	Through Water, Over Ground, Total Log, Trip Log
Tank Monitor	Capacity, Level, Remaining
Time	Date Local, Date UTC, Time Local, Time UTC
Transmission	Gear, Oil Pressure, Oil Temperature
Trim Tabs	Bar Graph
Wind	Apparent Direction and Speed, True Direction and Speed, Ground Speed and Direction

Electrical

Parameter	Value	Comment
Operating Voltage	9 to 16 Volts	
Power Consumption	< 200mA	Average Current Drain (backlight off)
	<350mA	Average Current Drain (backlight on)
Load Equivalence Number (LEN)	7	NMEA 2000® Spec. (1 LEN = 50mA)
Reverse Battery Protection	Yes	Indefinitely
Load Dump Protection	Yes	Energy Rated Per SAE J1113

Mechanical

Parameter	Value	Comment
Size	6.8" x 5.75" x 1.25" (173mm x 146mm x 32mm)	
Weight	24 Oz. (680g)	
Mounting	Surface, Flush, or Gimbal Mount	Gimbal Mount Optional

Environmental

Parameter	Value
IEC 60945 Classification	Exposed
Degree of Protection	IP67
Operating Temperature	-25°C to 55°C
Storage Temperature	-40° to 70°C
Relative Humidity	93%RH @ 40°C per IEC 60945-8.2
Vibration	2-13.2Hz @ ±1mm, 13.2-100Hz @ 7m/s² per IEC 60945-8.7
Rain and Spray	12.5mm Nozzle @ 100liters/min for 3m for 30min per IEC 60945-8.8
Solar Radiation	Ultraviolet B, A, Visible, and Infrared per IEC 60945-8.10
Corrosion (Salt Mist)	4 times 7 days @ 40°C, 95%RH after 2 hour Salt Spray per IEC 60945-8.12
Electromagnetic Immunity	Conducted, Radiated, Supply, and ESD per IEC 60945-10
Safety Precautions	Dangerous Voltage, Electromagnetic Radio Frequency per IEC 60945-12

