DSM570
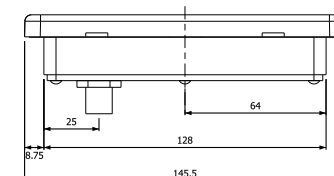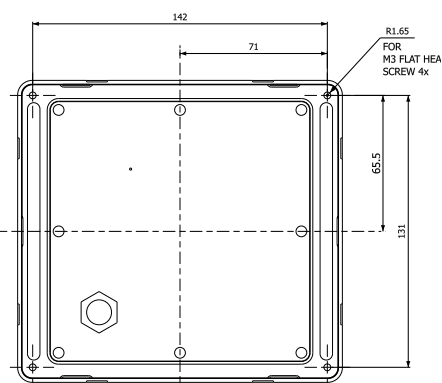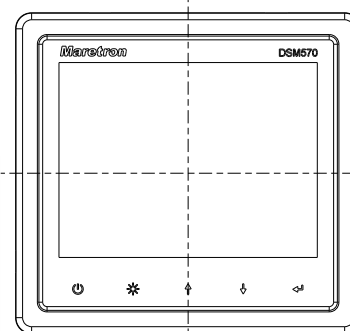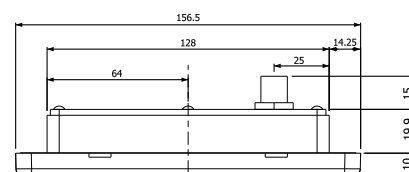
5.7" High Resolution Color Display

The DSM570 is a 5.7" high-resolution, sunlight viewable color display that interprets and displays NMEA 2000® instrument, navigation, and vessel monitoring data. The DSM570 is a user-friendly dedicated marine display with custom screen configurations and an easy-to-use five-key illuminated keypad. In addition to the monitoring and display capabilities, the DSM570 features an alert/alarm package and electrical switching capability. Unlike traditional single-display units, DSM570 users can choose numeric, gauge, bar 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 DSM570 will directly connect with any NMEA 2000® network and with the exception of AIS data will display any or all information captured throughout the vessel. Various audio and visual alarms are also programmable. The DSM570 displays a multitude of information including AC power, anchor status, battery, depth, electrical distribution, engine, environment, fuel management, GPS, heading, navigation, pressure/vacuum, rudder, speed, status indicators, tanks, temperature, time, transmission, water makers, and more. Maretron's DSM570 is engineered and manufactured to the highest standards (IEC 60945 Maritime Navigation and Radiocommunication Equipment). Its compact waterproof housing will provide years of reliable performance.

Product Features

- CAN NMEA 2000® Communication
- Sunlight Viewable
- 16 User Defined Screens for Monitoring
- Alert/Alarm Package
- Electrical Switch Control
- Dust cover included
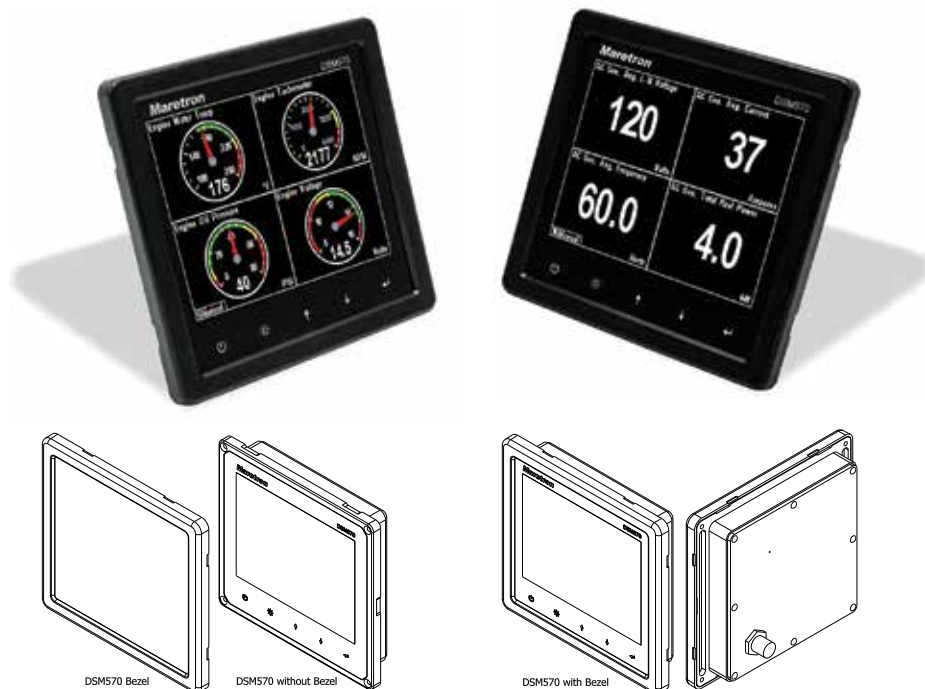
DSM570 Bezel   DSM570 without Bezel   DSM570 with Bezel

PRODUCTS

PART NUMBER	DESCRIPTION
DSM570-01	5.7" High Resolution Color Display with Dust Cover
DSM570-Dust-Cover	

SPECIFICATIONS

PARAMETER	VALUE	COMMENT
NMEA 2000® Connector	DeviceNet Micro-C	
Display Technology	Active Matrix TFT LCD	Sunlight Readable
Display Resolution	640 x 480 Pixels	QVGA Resolution
Display Viewable Area	115.2mm W x 86.4mm H	5.7" Diagonal
Display Backlighting	LED	3 User-Programmed Levels 0-100%
Body Construction	Anodized Aluminum	
Keyboard	5 Silicone Touch Pads	Multi-Colored LED Backlighting
Languages Supported	English, Dutch (Nederlands)	User Selectable

SUPPORTED DATA DISPLAY TYPES

INSTRUMENT TYPE	DATA TYPES
AC Power	Average Frequency, Average L-N Voltage, Average L-L Voltage, Phase A Frequency, Phase A L-N Voltage, Phase AB L-L Voltage, Phase B Frequency, Phase B L-N Voltage, Phase BC L-L Voltage, Phase C Frequency, Phase C L-N Voltage, Phase CA L-L Voltage
Anchor	Watch
DC	Current, Voltage, Battery Temperature, Battery State of Charge, Battery Time Remaining, Ripple Voltage, Power
Depth	Water Depth, Water Below Transducer, Transducer Offset
Electrical	Resistance
Elec. Distribution	Switch/Breaker, Breaker Current, Hardware OFF Counter, Hardware ON Counter, Hardware ERROR Counter, Hardware ON Timer, Hardware OFF Timer, Hardware ERROR Timer
Engine Monitor	Boost Pressure, Hours, Coolant Pressure, Coolant Temp., Exhaust Gas Temp., Fuel Pressure, Fuel Rate, Oil Pressure, Oil Temp., Tachometer, Tilt/Trim, Voltage, Fuel Economy, Fuel Consumption, Percent Load, Percent Torque, Trip Fuel Used, Warning Indicators
Fluid Flow	Flow Rate, Trip Volume
Fuel Management	Distance to Empty, Time to Empty, Total Fuel Capacity, Total Fuel Level, Total Fuel Consumption, Total Trip Fuel Used, Total Fuel Economy, Total Fuel Rate, Total Fuel Remaining
GPS	COG, Lat/Lon, SOG, DOP, Satellites, Time, Accuracy
Heading	Heading, Rate of Turn, Variation
Humidity	Inside, Outside, User Defined
Indicator	Status, Hardware OFF Counter, Hardware ON Counter, Hardware ERROR Counter, Hardware ON Timer, Hardware OFF Timer, Hardware ERROR Timer
Mechanical	dB, Force, Strain
Motion	Acceleration, Angle, Angular Velocity, Angular Acceleration, Distance, Rotational Rate, Velocity
Navigation	BOD, BTW, COG, XTE, DTW, ETA, Lat/Lon, Rolling Road, Set/Drift, SOG, TTG, VMG, Waypoint Number & Name
Pressure/Vacuum	Altimeter, Barometric, Compressed Air, Engine Boost, Engine Coolant, Engine Fuel, Engine Oil, Hydraulic Oil, Steam, Transmission Oil, User Defined, Water
Rudder	Angle & Order
SMS	Status, Signal Strength, Indicator
Speed	Through Water, Over Ground, Total Log, Trip Log
Tanks	Capacity, Level, Remaining
Temperature	Bait Well, Battery, Engine Coolant, Engine Oil, Engine Room, Exhaust Gas, Freezer, Heat Index, Heating System, Inside, Live Well, Main Cabin, Outside, Refrigeration, Sea, Transmission Oil, User Defined, Wind Chill
Time	Local Date, UTC Date, Moon Phase, Sunrise, Sunset, Local Time, UTC Time, Twilight AM, Twilight PM
Transmission	Gear, Oil Pressure, Oil Temperature, Warning Indicators
Vessel	Heave, Pitch, Roll, Trim Tabs, Keel
Watermaker	Sea Recovery Status Display

ELECTRICAL

PARAMETER	VALUE	COMMENT
Operating Voltage	9 to 30 Volts	DC Voltage
Power Consumption (Maximum)	4.5W	
Load Equivalence Number (LEN)	9	NMEA 2000® Spec. (1LEN = 50mA)
Reverse Battery Protection	Yes	Indefinitely
Load Dump Protection	Yes	Energy Rated per SAE J1113

MECHANICAL

PARAMETER	VALUE
Size	5.77" (H) x 6.16" (W) x 0.37" (Forward D) x 0.81" (Rear D) 146.5mm (H) x 156.5 mm (W) x 10mm (Forward D) x 19.9mm (Rear D)
Weight	26 oz. (737g)
Mounting	Flush Mount

ENVIRONMENTAL

PARAMETER	VALUE
IEC 60945	Exposed
Degree of Protection	IP67
Operating Temperature	-20°C to 70°C
Storage Temperature	-30°C to 80°C
Relative Humidity	93%RH @40° per IEC60945-8.2
Vibration	2-13.2Hz @ ±1mm, 13.2-100Hz @ 7m/s^2 per IEC 60945-8.
Rain and Spray	12.5mm Nozzle @ 100liters/min from 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 Emission	Conducted and Radiated Emission per IEC60945-9
Electromagnetic Immunity	Conducted, Radiated, Supply, and ESD per IEC 60945-10
Safety Precautions	Dangerous Voltage, Electromagnetic Radio Frequency per IEC60945-12

CERTIFICATIONS

PARAMETER	COMMENT
NMEA 2000® Standard	
Maritime Navigation and Radiocommunication Equipment & Systems	IEC 61162-3
Maritime Navigation and Radiocommunication Equipment & Systems	IEC 60945
FCC and CE Mark	Electromagnetic Compatibility