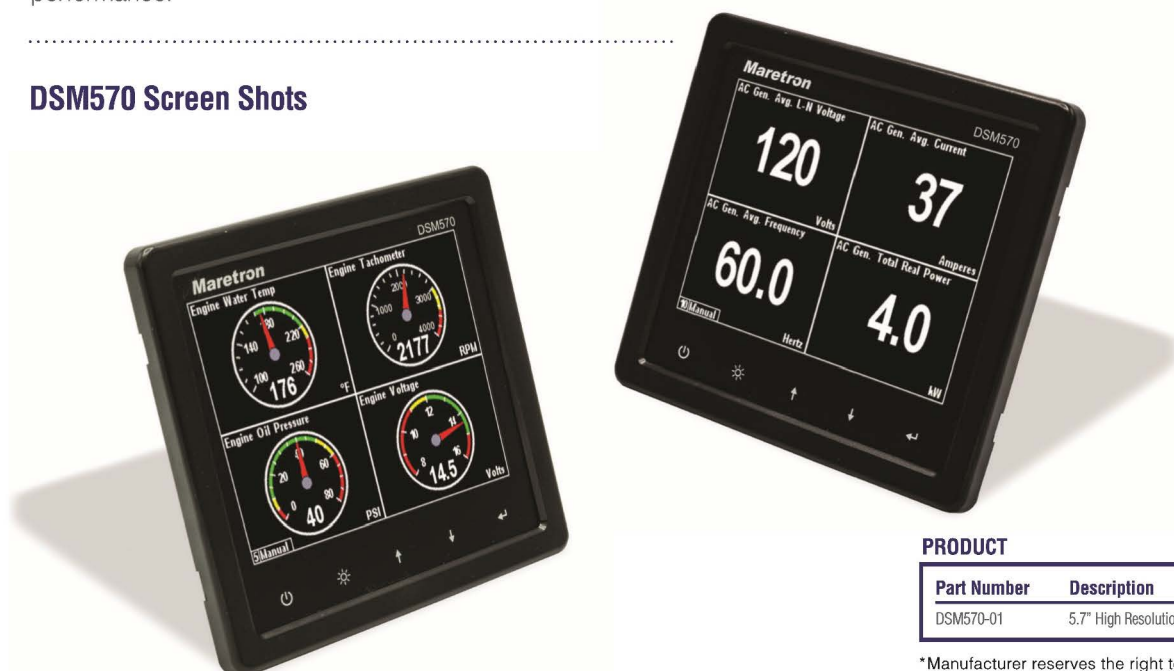# DSM570

## 5.7" HIGH RESOLUTION COLOR DISPLAY

Maretron's 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 Highlights

- CAN NMEA 2000® Communication
- Sunlight Viewable
- 16 User Defined Screens for Monitoring
- Alert/Alarm Package
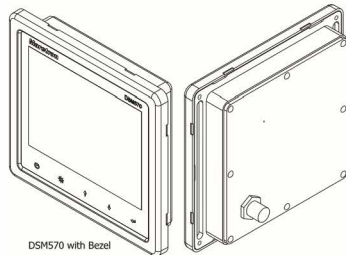- Electrical Switch Control

## DSM570 Screen Shots



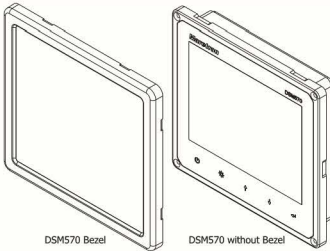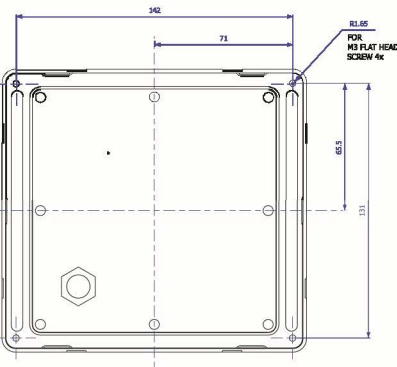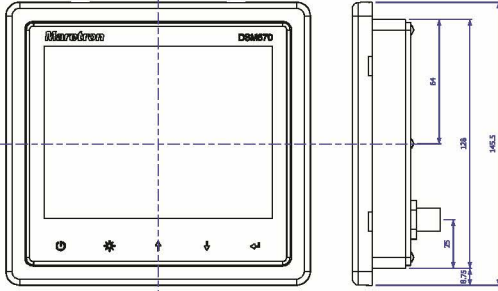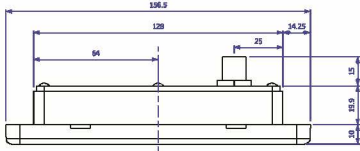### PRODUCT

| Part Number | Description |
| --- | --- |
| DSM570-01 | 5.7" High Resolution Color Display |

*Manufacturer reserves the right to change product specification without prior notice. Please refer to our website for the latest details.

# Dimensional Specifications - mm



DSM570 Bezel

DSM570 without Bezel

DSM570 with Bezel

## 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 Capacitive Touch Pads | LED Backlighting |
| Languages Supported | English, Dutch (Nederlands) | User Selectable |

## CERTIFICATIONS

| Standard | 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 |

## 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 30V | DC Voltage |
| Power Consumption (Maximum) | 4.5W | |
| Load Equivalence Number (LEN) | 9 (450mA Maximum) | NMEA 2000® Spec. (1LEN = 50 mA) |
| Reverse Battery Protection | Yes | Indefinitely |
| Load Dump Protection | Yes | Energy Rated per SAE J1113 |

## MECHANICAL

| Parameter | Value | Comment |
|---|---|---|
| Size | 5.77" (H) x 6.16" (W) x 0.37" (Forward D) x 0.81" (Rear D)<br>146.5mm (H) x 156.5mm (W) x 10mm (Forward D) x 19.9mm (Rear D) | |
| Weight | 26 oz. (737 g) | |
| Mounting | Flush Mount | |

## ENVIRONMENTAL

| Parameter | Value |
|---|---|
| IEC 60945 Classification | 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/s² per IEC 60945-8.7 |
| 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 IEC 60945-12 |