

HelmView™ Model HV450; Model HVS450



Features

- A fully customizable 4" color display designed specifically for commercial marine applications.
- Utilized for modern electronic engines and vessel monitoring using SAE J1939 Controller Area Network
- Customizable for additional Commercial Marine applications
- Bonded LCD screen viewable in direct sunlight
- Rugged design that is simple to use
- Video input
- Configuration Software option offers virtually unlimited possibilities
- Blackout Mode Option

The **HelmView™ HVS450** is specifically designed to meet the engine monitoring needs of the Commercial Marine industry. Its durable design and easy to use interface offers a complete view of your vessels engines. Monitor propulsion, auxiliary, transmission, and genset engines all on one display. It is equipped with the ability to switch between Day and Night mode operations and even has a blackout option. There are multiple screens to choose from and the ability to turn screens on/off to meet your specific marine application needs. The HVS450 has the ability to be connected to a video camera for monitoring the engine room or other important areas of the vessel.

This multi-functional display allows you to monitor multiple engines, transmissions, fuel usage, and more using only one device, thus greatly reducing operating costs. It has eight tactile push buttons that can easily be pressed with or without gloves. The HVS450's sunlight viewable, full-color screen makes seeing life-like gauges, alarm warnings, service codes, and video easy to view in virtually any condition. The HVS450 is fully programmed to display Diagnostic Trouble Codes showing critical alarms and text explanations.

The HVS450 display is compatible with the PowerVision Configuration Studio™ so custom software configurations can be quickly developed. With the PowerVision Configuration Studio it is easy to define the user interface screens, monitoring requirements and specifications that are unique to the Commercial Marine industry. The HVS450 paired with the PowerVision Configuration Studio extends custom configuration from only monitoring to equipment control, data logging, and additional alarming. You can even add custom graphics and company branding to the user interface.

Display Parameters

The following are some of the parameters displayed by the HVS450 in English or Metric units (when applicable, consult engine or transmission manufacturer for SAE J1939 supported parameters).

Engine RPM	Transmission Oil Temperature	Instantaneous Fuel Usage
Engine Hours	Transmission Oil Level	Trip Fuel
System Voltage	Tank Levels	Navigational Bearing
% Engine Load at the Current RPM	Course over Ground*	Active Service codes
Coolant Temperature	Speed over Ground*	Stored Service Codes (when supported)
Oil Pressure	Longitude and Latitude*	Video
	Real Time Display*	

*NMEA GPS Antennae required

Specifications

Technical

Display: Bonded 4.3" color transmissive TFT LCD
Resolution: WQVGA, 480 x 272 pixels, 16-bit color
Aspect Ratio: 16:9
Orientation: Landscape or portrait
Backlighting: LED, 500-650 cd/m² (30,000 hr lifetime)
Microprocessor: Freescale iMX35, 32bit, 532 MHz
QNX Operating System QNX Real Time
Flash Memory: 256 MB (expandable to 8GB)
RAM: 128 Mb DDR2 SDRAM
Operating Voltage: 6 - 32 VDC, protected against reverse polarity and load-dump
Power Consumption: 10W Max
CAN: Two CAN 2.0B; optional NMEA 2000 isolation
RS485: 1 MODBUS Master/Slave
Video input: Two NTSC/PAL input channels with one displayed at a time
Protocols: J1939, NMEA 2000 (GPS), CANOpen protocol support.
Connection: 4 Deutsch DT 6-pin connectors
Keyboard: 8 tactile buttons

USB 2.0 host (full speed), optional OTG support
Output Digital: (1) open -drain, capable of syncing 500mA
Inputs: (1) Resistive, 0-5 V, or 4-20 mA (software configurable)

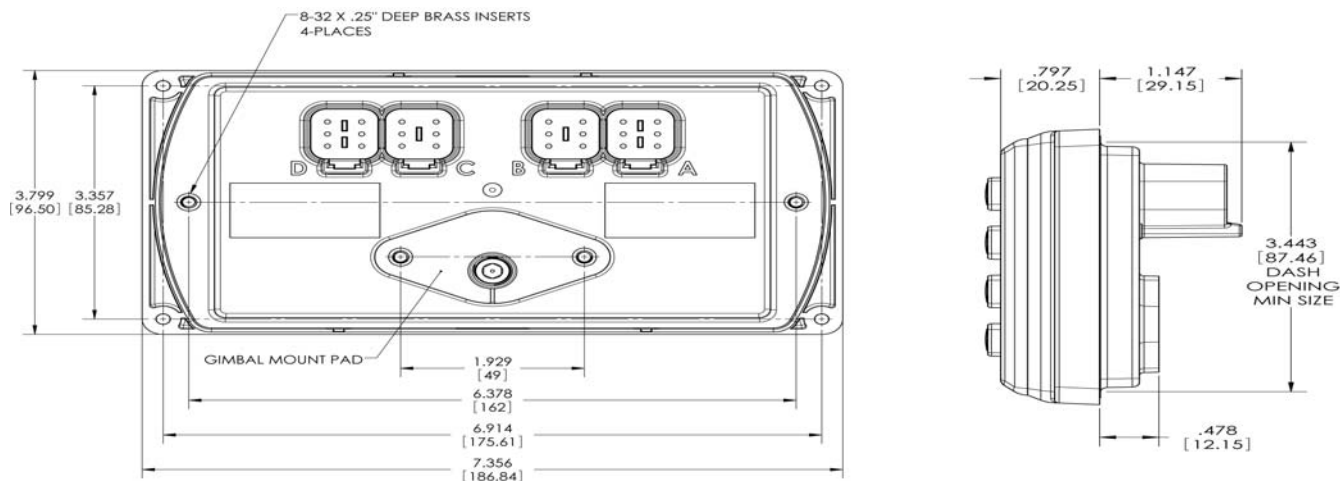
Environmental

Operating Temperature: -40°C to +85°C (-40°F to +185°F)
Storage Temperature: -40°C to +85°C (-40°F to +185°F)
Protection: IP 66 and 67, front and back.
Emissions and Immunity: Electromagnetic Compatibility: 2004/108/EC J1113/2, 4, 11, 21, 26 and 41
 EN 61000-6-4, EN 61000-6-2 (immunity), EN 501121-3-2, EN 12895
Vibration: Random vibration, 7.86 G_{rms} (5-2000 Hz), 3 axis
Shock: +/- 50G in 3 axis

Mechanical

Dimensions: 7.35 x 3.8 in. (186.8 x 96.5 mm) landscape
Unit Depth: 1.94 in. (49.4 mm)
Case material: Polycarbonate back case
Mounting: Front or Rear
 Optional Gimbal Mount available

Dimensions



How to Order

Product	Model #	Product #
HelmView™ 450	HVS450	78-70-0563

美国Murphy仪表经销商

北京

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