Product Basic Information

VMH 35
MARINE DISPLAY

KEY FEATURES

- ✓ Stylish black-glass design with brushed stainless-steel frame
- ✓ Sun-readable 1.44" TFT central display for data scrolling and alarms
- ✓ Intelligent Battery Sensor (IBS) port
- ✓ Analog to NMEA 2000® gateway
- ✓ Integrated high-performance GNSS receiver
- ✓ NMEA 2000® certified

VMH 35 BENEFITS

The VMH 35 is the perfect standalone instrument for outboard engines.

Designed with stylish mineral glass front lens framed by a brushed stainless-steel bezel, it can display a wealth of critical boat system data in a compact package that's perfect for dashboards, consoles and bulkheads on smaller vessels with limited space.

The VMH 35 has an embedded NMEA 2000 gateway that distributes sensor data inputs such as fuel, trim, and tachometer to other devices like chart plotters, saving the need for an additional external converter.

An integrated GNSS receiver integrates speed, compass, and position into the engine data information, while the dedicated Veratron IBS (Intelligent Battery Sensor) input can provide critical 12V battery monitoring capabilities.

PART NO.	DEVICE
B00085501	VMH 35 marine display

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TFT DISPLAYED DATA

SYMBOL	DESCRIPTION
FRESH	Freshwater Level
WASTE	Wastewater Level
RUDDER	Rudder Angle
TRIM	Trim
-	GPS Position
COG	Course Over Ground
	Engine Speed (RPM)
	Seawater Temperature
DEPTH	Depth
	Clock
	Hour Counter (Total and Trip)
TRIP	Trip Distance
TTL	Total Fuel Used
TOTAL FUEL	Total Fuel

SYMBOL	DESCRIPTION
	Fuel Consumption
	Fuel Level
	Coolant Temperature
	Coolant Pressure
	Engine Oil Temperature
	Engine Oil Pressure
	Boost Pressure
	Ammeter
	Battery Voltage
SOC	Battery State of Charge
SOH	Battery State of Health
BATT. AUT	Battery Autonomy
	Battery Temperature

ADDITIONAL DISPLAYED DATA

- ✓ Engine Speed
- ✓ Boat Speed (SOG and STW)
- ✓ Gear position

- ✓ 6x Alarm telltales

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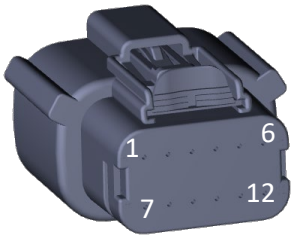
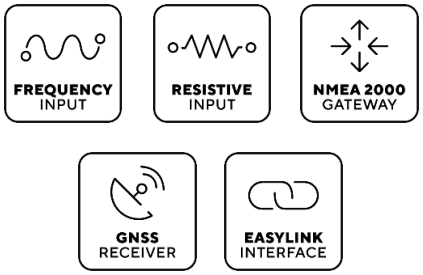
PINOUT

PIN NO.	WIRE COLOR	DESCRIPTION
1	Red	Term. 30 – Steady Power
2	Black	Term. 31 – Ground
3	White	Alarm output 500mA (active low)
4	Green	Frequency input
5	Blue	LIN bus (Intelligent Battery Sensor)
6	Blue/White	-
7	Yellow	Term. 15 – Ignition
8	Gray	Resistive Input (0 – 400 ohm)
9	Brown	Resistive Input (0 – 400 ohm)
10	Orange	Term. 58 – Illumination
11	Red	EasyLink Power
12	Yellow	EasyLink Data





SUPPORTED NMEA 2000® PGNs

DESCRIPTION	PGN
GPS Almanac Data	126992
Rudder	127245
Engine Parameters, Rapid Update	127488
Engine Parameters, Dynamic	127489
Fluid Level	127505
DC Detailed Status	127506
Battery Status	127508
COG & SOG, Rapid Update	129026
GNSS Position Data	129029

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TECHNICAL DATA

GENERAL DATA	
Operating voltage	12V
Voltage range	9 – 16 V
Protection class	IP X7
Flammability	UL94
Power consumption	≤ 15 mA (normal mode) ≤ 120 µA (sleep mode)
Dimensions	Ø100 (Ø 85mm mounting)
Active area	Ø 83mm (optical bonded)
Central display	1.44”, 128 x 128 Pixel
Lens	Mineral glass
Buttons	2 silicon buttons
Bezel	Brushed stainless steel
Operating temperature	-20°C to 60°C
Storage temperature	-30°C to 80°C
Plugs	Molex MX-150 DeviceNet M12, 5 pins
Compliance	CE, UKCA, Reach, RoHS

GPS DATA	
Navigation system	GPS, GLONASS, Galileo
Update rate	10 Hz
Channels	72
Tracking sensitivity	-165 dBm
Time to first fix (hot start)	1 s
Time to first fix (cold start)	30 s
Position accuracy	2.5 m
Velocity accuracy	0.05 m/s
Heading accuracy	0.3°

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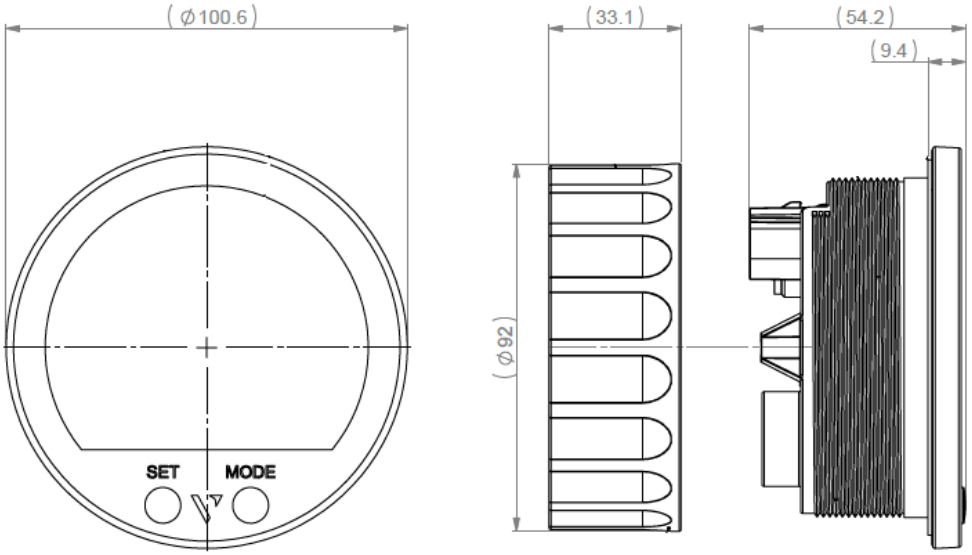
DIMENSIONS



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Rev.AA

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