

Marinelite®

Doppler Speed Log

MODEL DL9000/HDL9000



This product uses the Doppler shift between the emitted sound wave and the received reflected wave to measure the ship's speed, which conforms to the relevant performance standards of IMO (International Maritime Organization), and has already obtained the CCS certificate, and can provide high-precision, multi-directional speed data for many marine navigation equipment.

- Speed through water in 1 or 2 axis (optional)
- The speed information measured by the speedometer combined with the heading information provided by the gyro compass or magnetic compass can be used to derive the ship's position.
- Multiple NMEA0183 outputs, pulse and analog, provide highly accurate speed information for marine navigation equipment such as satnavs, auto-integrated navigators, ARPA's and true motion radars.
- Provision of longitudinal and transverse speed information to modern large or very large ships to ensure their safety when navigating, docking and anchoring in narrow waterways.
- 7.0-inch color touch screen display unit, providing the speed to water (STW) and travel distance information, more intuitive data, more convenient equipment.
- Optional 4.2-inch or 7.0-inch color display unit showing speed and distance information.

SPECIFICATIONS

Transceiver Operating Frequency	1 MHz
Number of Beam Channels	2 Channels / 4 Channels (Optional)
Speed Measurement Range	Longitudinal: -40.0 ~ 40.0 kn Transverse: -40.0 ~ 40.0 kn
Mileage Measurement Range	0.0 ~ 99999.9 nm
Tracking Depth	More than 3m below the keel
Speed accuracy	± 2% or 0.2 kn, whichever is greater
Mileage accuracy	± 2% or 0.2 nm/h, whichever is greater

Display unit	
Screen	7-inch LCD 800*480 4.2-inch LCD 720*672(optional)
Illuminance	600 cd/m²
System Language	Simplified Chinese/English

Interface	
NMEA 0183	IEC61162-1 Ed5 Input/output 8 units
NMEA 2000	1 (optional)
PPS	2 (Optional)
Speed Analog Current Output	2 (Optional)
Speed Analog Voltage Output	2
Output Sentences	Standard: VBW, VLW Optional: ALF, ALC, ALR, HBT, RMC, GGA, VTG, GLL Note: Output is only generated when the system receives the above statement.
Input Sentences	Optional: ACN, RMC, GGA, GLL, VTG, HBT

Environment	
Temperature Range	Transducer Unit -5 °C ~ +35 °C Other Units -15 °C ~ +55 °C
Relative Humidity	93% or +55 °C
Protection Rating	Display Unit IP 22 Transceiver Unit IP 44 Display Unit(Optional) IPX7 Distributor Unit IP 22 Transducer Unit IPX8
Vibration	IEC 60945 Ed.4

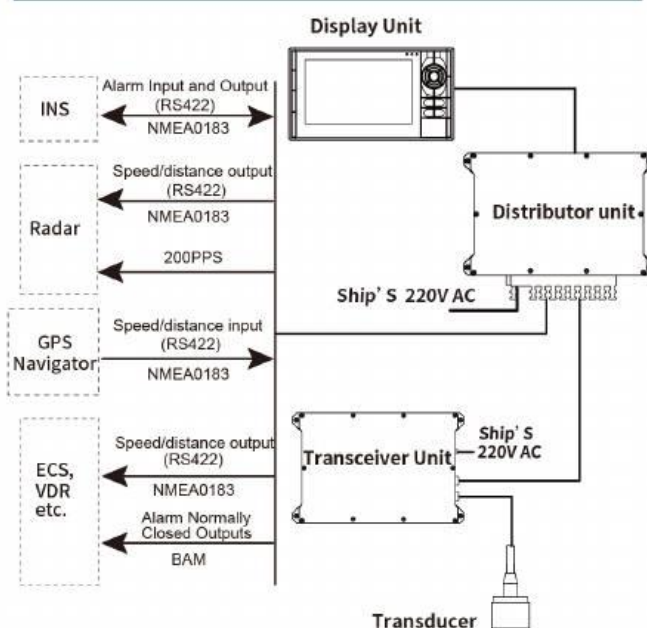
Standard Components

- Display Unit
- Distribution processor
- Transceiver Unit
- Transducer

Option

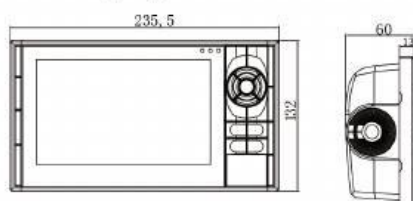
- Gate valve
- Multi-Functional Display

SYSTEM DIAGRAM

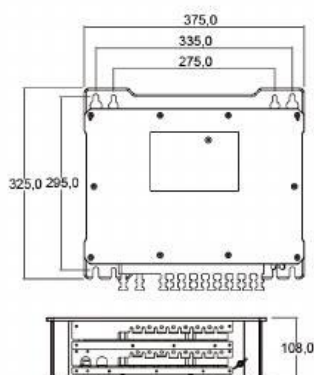


DIMENSIONS

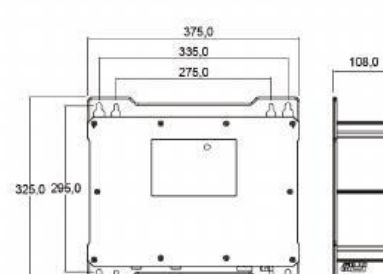
Display Unit



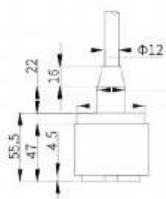
Distribution Processor



Transceiver Unit



Transducer



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