

Marinelite®

ELECTROMAGNETIC LOG

MODEL **EML9000**



- Equipped with various types of sensors: single-axis or dual-axis sensors are available. Single-axis measures forward and backward speed, while dual-axis can measure speed in forward, backward, left, and right directions.
- Multiple NMEA0183 outputs, pulse and analog, provide highly accurate speed information for marine navigation equipment such as satellite navigators, automatic integrated navigators, ARPA's and true motion radars.
- Excellent filtering technology enables real-time and stable speed display.
- 7.0-inch high-precision capacitive color touch screen displays water speed (STW) and distance traveled information, making data more intuitive and the device more user-friendly.
- The display unit features multiple display modes, ensuring clear visibility under strong light, backlight, or deep night conditions.
- With excellent industrial design, it has a stylish appearance, is easy to install, maintenance-free, and unaffected by water temperature and salinity. However, users should take precautions against complex sea conditions such as strong winds and heavy rain.
- Optional 4.2-inch or 7.0-inch color display repeaters are available.

SPECIFICATIONS

Number of Beam Channels	Single-axis or dual-axis(Optional)
Speed Measurement Range	-40~40kn
Mileage Measurement Range	0.0 ~ 99999.9 nm
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
System Language	Simplified Chinese/English

Interface	
NMEA 0183	IEC61162-1 Ed5 Input/output 6 units
NMEA 2000	1 (optional)
PPS	2
Speed Analog Current Output	2 (Optional)
Speed Analog Voltage Output	2 (Optional)
Output Sentences	Standard: VBW, VLW Optional: ALF, ALC, ARC, HBT, RMC, GGA, GNS, GLL, DTM, HDT, VTG Note: Output is only available when the system receives the above sentence inputs

Input Sentences	Optional: ACN, RMC, GGA, GLL, VTG, HBT
Power Supply	100~240V AC: 1.8A 50/60HZ

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 Display Unit(Optional) IP 67 Junction Box IP 22 Sensor Unit IP 68
Vibration	IEC 60945 Ed.4

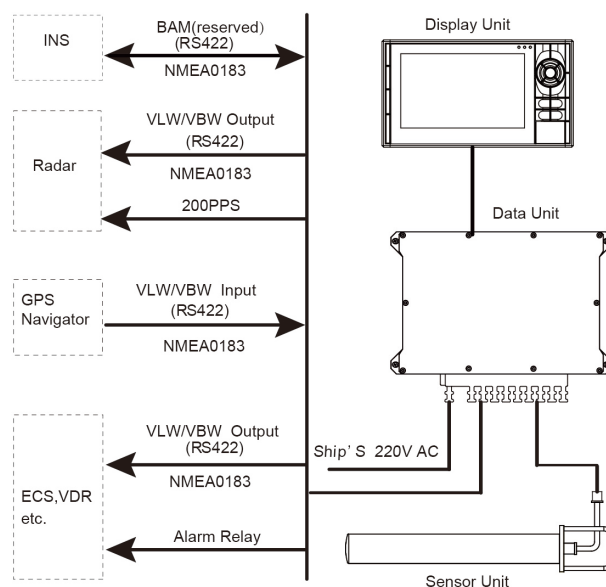
Standard Components

- Display Unit (7 inch) EML9007
- Data Unit EML900J
- Sensor unit A-TE571S1 (Single-Axis)
- Gate Valve

Option

- Sensor Unit A-TE571S2(Dual-Axis) & Gate Valve
- Sensor Unit A-TE571S & Gate Valve
- Sensor Unit A-TE521S1(Single-Axis) & Tank
- Sensor Unit A-TE521S2(Dual-Axis) & Tank
- Display Repeater MI42, MI70

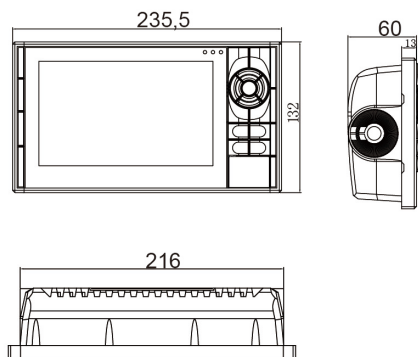
SYSTEM DIAGRAM



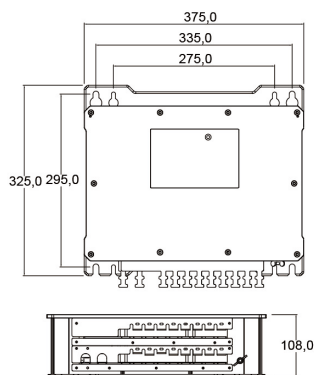
DIMENSIONS

Electromagnetic Log

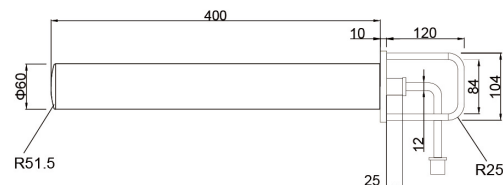
Display Unit



Data Unit



Sensor Unit



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