

LMN5 Electromagnetic Speed Log

Naval electromagnetic speed log

Speed and distance measuring equipment (SDME)

The LMN5 electromagnetic log perfectly meets the climatic, mechanical and radio electrical resistance standards applicable to the equipment onboard navy ships. The LMN5 electromagnetic log includes an electromagnetic sensor, a processing unit, a repeater and a programming console.



Characteristics

Interfaces

Inputs/Outputs (accessible through the corresponding connectors):

- 28 VDC power supply or other,
- inductor/electrode sensor data,
- 2 x 1/200 nautical mile potential free contact output*,
- 2 x 1/10 nautical mile potential free contact output* or alarm function threshold,
- 2 x programmable 1/200 or 1/100 or 1/10 nautical mile inputs*,
- 1 x potential free contact alarm output*,
- 1 x RS422 output, IEC 61162-1,
- 2 x RS422 output to dialog with the repeater.

(*) breaking capacity 24 VDC - 250 mA



IMO Type approval - Wheelmark
by Bureau Veritas

Performance Data

Measurement scale: + 60 knots

Speed:

speed indicators resolution: 0.1 knot,
speed accuracy: 0.1 knot for speed < 10
knots and 1% for speed > 10 knots,
damping time constant: 4, 16, 32 seconds,
sampling period: 8 Hz,
electronics linearity: instrument
accuracy 0.1 % of full scale reading,
zero stability: 0.04 knot,
measurement reliability in laboratory:
0.1 % of full scale reading.

Distance:

scale : 0 to 99,999.9 nautical miles,
accuracy better than 0.1 nautical mile
whatever the speed,
speed simulation.

Standards:

French Navy according to Mil GAM EG13,
Wheelmark IEC 60945, IEC 61023,
IEC 61162-1, IEC 62288, Type Approval
96/98 EC, SDME (Speed and Distance
Measuring) device standard for ship
speed log LMN5.

Power supply: 115 VAC or 230 VAC, 50/60
Hz or 28 VDC.

Power: 25 W.

Options

- 1 x programmable synchro output (5 VA - 400 or 60 Hz)
- External Commutation and Distribution
- Cabinet CDC
- 5 x RS422 outputs IEC 61162-1 or for user subsystems (in option only in « 1 sensor » version) including 2 sensors commutation functions
- External digital/synchro cabinets - 1 to 5 synchro outputs - 5 VA each - 400 or 60 Hz
- 1 x current output. 0 - 500 μ A or 0 - 10 VDC (programmable full scale)

Dimensions

- Main cabinet length: 400 mm
- Main cabinet width: 250 mm
- Main cabinet depth: 250 mm
- Main cabinet weight: 19 kg

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