



Features

- Single or dual axis speed measurement option
- Single or twin transducer option
- Flush fitting transducer
- Gatevalved (retractable transducers) hull fitting or fixed transducer option
- Built in simulators, digital and analogue (dummy log)
- Microprocessor controlled calibration table providing up to 16 calibration points
- Speed displays to 99.99 knots using red LED's
- Total and trip distance displays to 99,999.99 nautical miles
- Auxiliary LCD display using 32 characters for menu guided system set up, calibration, status & test result display
- Sealed membrane keypad controlling: systems setup, calibration control, transducer selection, speed axis displays, display brightness, self test function and digital simulation
- Full interfacing capability
- Immune to impressed current cathodic protection systems

Chernikeeff Aquaprobe Mk5 Naval Electromagnetic Speed Log

This Military Grade EM Speed Log system is designed for all types of warship and auxiliary vessel. It can be configured in a number of ways to provide single or dual axis speed and distance travelled measurement, using single or twin transducers.

The system meets both full military standards and commercial requirements being also type approved to IMO standards IEC 0945 & IEC 1023.

The microprocessor calibration control ensures high accuracy throughout the vessels entire speed range.

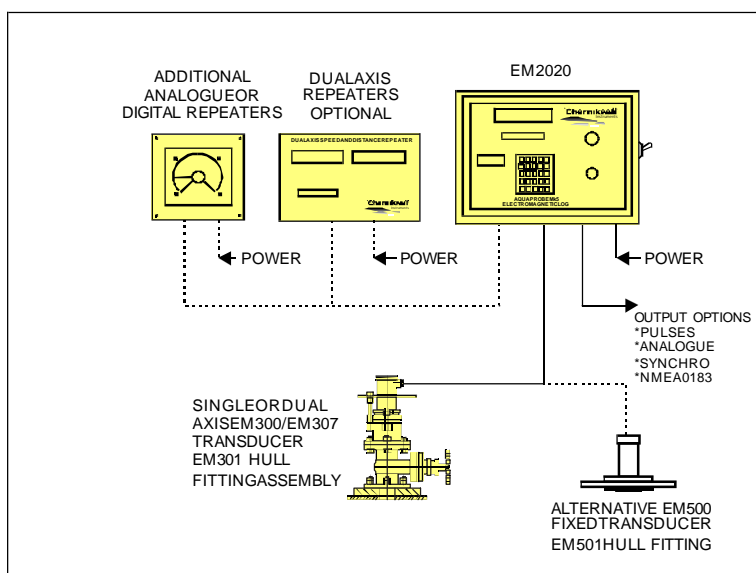
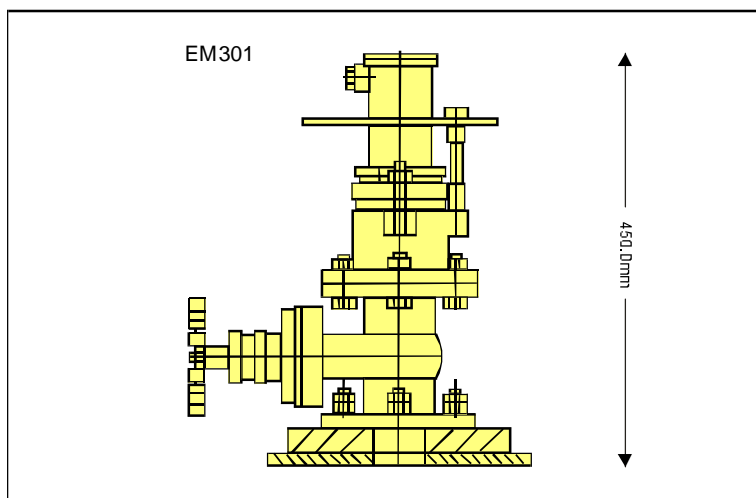
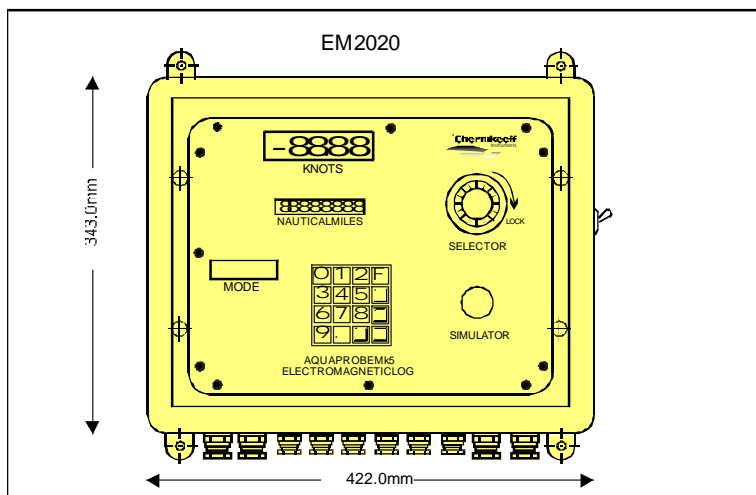
Full interface capability is provided for connection of ships speed & distance data to combat systems, onboard computers, gyro compass, data distribution units, etc.

Repeaters are available in single or dual axis display format in bulkhead or console mountings.

CE Type Approved to EMCEuropean Directive
IEC 945

Chernikeeff
Instruments

**Proven Accuracy
and Reliability**



GENERAL SPECIFICATION

Speed Range

$\pm 40 \text{ knots or } \pm 80 \text{ knots}$

Total Distance Range (Reset)

0 to 99,999.99 Nautical miles

Trip Distance Range

0 to 99,999.99 Nautical miles

System Accuracy

Speed $< 10 \text{ knots} \pm 0.02 \text{ knots}$

Speed $\geq 10 \text{ knots} \pm 0.2\%$

Distance 0.02% of speed

Calibrated Accuracy

Speed $< 10 \text{ knots} \pm 0.1 \text{ knots}$

Speed $\geq 10 \text{ knots} \pm 1\%$

Distance 0.02% of speed

Calibration up to 16 points

Interfaces

6x selectable 100, 200 or 400 (max 6)

Potential free contact

closures 0.5A, 100V (10VA)

DC Analogue

2x RS422 digital outputs to NMEA

0183 Standard

Optional 2x synchro outputs

Voltage Requirements

115/230V, 47-63Hz, 1Ø

or 24VDC by inverter

Power Requirements

100VA for basic system

Weights

Hull fittings (inc. transducer)

Retractable EM301 30Kg

Fixed EM501 10Kg

Electronic Units

Master Unit EM2020 15Kg

Repeater EM1080 10Kg

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Electromagnetic Speed Log

CE Type Approved to EMC European Directive IEC 945

In accordance with our policy of continuous development, changes may be made from time to time without prior notice.

WALKER
MARINE INSTRUMENTS

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