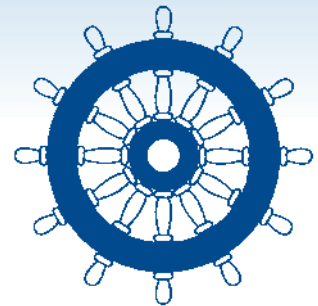


# Compact Type Approved Electromagnetic Speed Log for vessels up to 50 MTR



MED Type Approved

## Walker 4020 Mk2

Walker 4020 Mk2 is a compact EM Speed Log for smaller vessels which require a "Wheelmarked" MED Type Approved system in a minimal package reducing the size and number of sub-units required. This results in a smaller, lighter system which is simpler to install.

The 4020 combines the electronics unit with the speed and distance indicator in one master unit which may be console or bracket mounted.



High reliability sensors, flush fitting, fixed and retractable types housed in hull fittings suitable for various hull materials, such as aluminium alloy, steel, GRP and wood.

Removable keypad calibrator

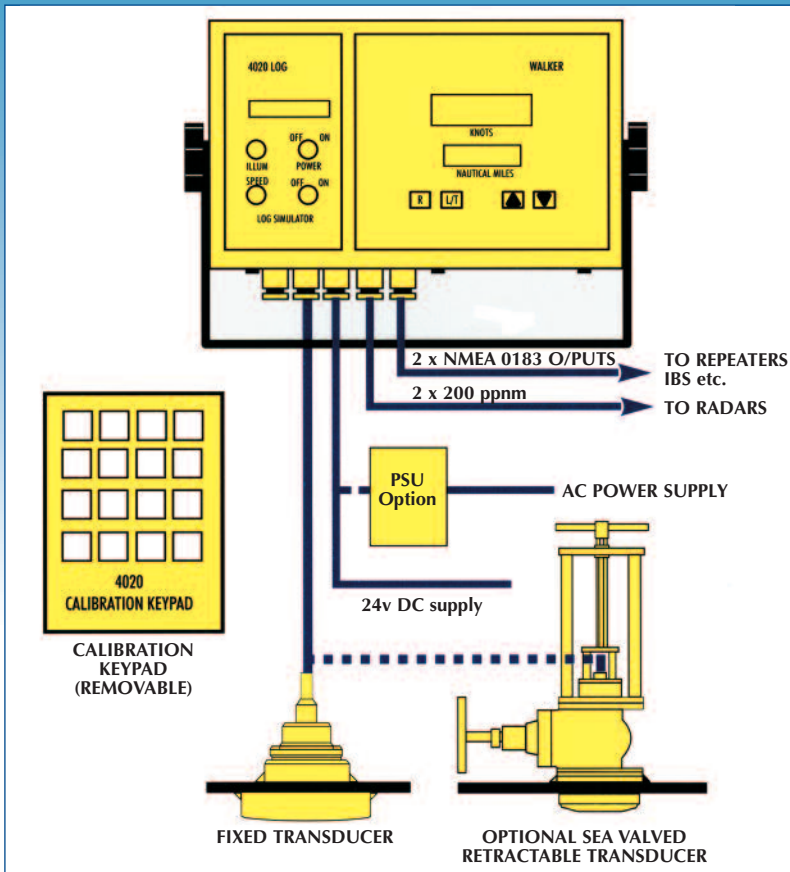
## Features

- Full compatibility with most Walker flush fitting, fixed or retractable speed log sensors and hull fittings.
- Digital Speed and Distance Run displays by red LED dimmable indicators.
- Multipoint speed calibration as speeds from up to 60 knots.
- Removable keypad "calibrator".
- Built-in Speed Simulator.
- NMEA 0183/RS422 and 200 ppm outputs to other ship systems.
- Repeater indicators to DIN144 standard (optional).
- Simple to install, operate and service.
- EM Speed Log technology drawn from over 30 years' experience.

Proven Accuracy and Reliability



EST. 1838



# Walker 4020 Mk2

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Electromagnetic Speed Log  
for vessels up to 50 MTR

## Installation

### Mechanical Dimensions

Speed log sensor and hull fittings with sea valve:

387 (W) x 165 (D) x 578 (H)

(Steel dimensions given)

Speed log sensor and hull fittings without sea valve:

152 (Ø) x 178 (H)

Electronic Unit with Master Speed and Distance indicator, console mounting:

330 (W) x 215 (H) x 180 (D)

Electronic Unit with Master Speed and Distance indicator, bracket mounting:

380 (W) x 265 (H) x 180 (D)

Keypad calibrator:

82 W x 110 (H) x 50 (D)

DIN 144 repeaters:

144 (W) x 144 (H) x 105 (D)

### Weights

Sensor (fixed), supplied with 50 metre cable:

9.0 Kg (Steel) 9.0 Kg (Alloy)

Sensor (retractable), supplied with 50 metre cable:

9.75 Kg (Steel)

Hull Fittings for fixed sensor:

5.3 Kg (Steel) 1.8 Kg (Alloy)

Hull Fittings for retractable sensor, test witnessed by G.L.:

27 Kg (Steel)

Master Speed and Distance indicator:

4 Kg

Repeaters: 1.2 Kg

### Power supply requirements

Voltage:

Standard 24 v DC +10% -20% (20W)

With optional power supply:

110/220 v AC (30vA)

Voltage must be specified when ordering.

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IEC61023, IEC945



## System Specification

### Operating Principle

A low frequency AC Electromagnetic sensor induces an electrical voltage in the sea water. This voltage is detected by two electrodes in the sensor face and converted to a speed reading in the Master unit. Distance run is derived by accurately integrating the speed value with respect to time.

Speed Range -20 to 60.0 kts  
Resolution 0.1 kt  
System accuracy +/- 2%  
Calibration accuracy, 0.1 kt 0 to 10 kt,  
+/- 1% above 10 kt

Distance  
Trip Distance 0 to 99,999.9 nm with front panel reset.  
Total distance 99,999.9 nm  
Accuracy – integrated from speed to 0.02%

Displays Red LED, dimmable to off  
Lamp test built in.

Controls Power On/Off, Simulator On/Off, Set Simulator Speed, Distance Reset, Lamp Test, Illumination Up/Down

Interfacing 2 x Outputs – NMEA 0183 \RS422.  
Sentences VLW and VHW  
2 x Outputs – 200 ppm.  
Isolated relay contacts of distance travelled.  
To switch max power 10W  
max current 0.5A  
max voltage 200 vDC

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EQUIPMENT

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