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.

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.
**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 VH
  - 2 x Outputs – 200 ppm.
  - Isolated relay contacts of distance travelled.
  - To switch max power 10W
    - max current 0.5A
    - max voltage 200 vDC

**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**:
  - 27 Kg (Steel)

- **Electronic Unit with 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.

**MED Type Approved**

IEC61023, IEC945