Red Line Instruments NMEA Compass Data Sheet

This NMEA compass is manufactured in the UK and features a fluxgate sensor with a floating core, this eliminates the conventional pivot mounting which can wear out. The internal processor ensures that following the auto-calibration an accuracy of ±0.5 degree can be achieved and can be set up either from the external control buttons on the case or via Windows based program. The unit is designed to operate at up to 45 degrees of heel and outputs heading data in two industry standards, NMEA0183 and FURUNO AD-10.

This unit is aimed primarily at navigation systems suppliers both for marine and terrestrial applications. Once installed, recalibration and setting North can be undertaken by the user through the buttons on the underneath of the case.

Typical applications include:

Compass heading for a NMEA0183 Display	✓
Compass heading for a Furuno AD-10 Display	✓
Radar 'North-up'	✓
Autopilot heading	✓
Chart plotting and navigation data source	✓
Satellite dish azimuth positioning	✓

Features

Type of compass	Floating Core Fluxgate
Case diameter	56 mm
Overall height	116 mm
Accuracy post Auto Calibration Routine	±0.5 degree
Supply requirements	+8 to +30 Volt @ 25mA
Heading data format	NMEA0183 ($HCHDG) & FURUNO AD-10
Switch 1 function	Start/Exit auto calibration process
Switch 2 function	Set North reference (allows any heading to be set to 0 degrees post calibration
NMEA0183 sentence frequency	1 sec (adjsutable via PC programme 100 to 3000 mSec)
Internal LED	Normally off, flashes during Auto-Calibration procedure.
Warranty	2 years
Cable length	10 mtrs
IP rating	IP67
CE Marked	Yes
Repairable	Yes
Order code	FG1-045

This unit is manufactured for us and sourced in the UK. It is supplied complete with fixings and an optional NMEA configuration software utility is available for installation onto a PC running Windows ensuring that it can be uniquely tailored to your navigation requirements.

The Auto-Calibration process depends on rotating the compass clockwise through 400 degrees during which time the internal processor creates a correction table that is applied to the measured direction. Once calibrated the device can be set to North and the accuracy of ±0.5 degree can be achieved. Whilst this eliminates the need to apply any further corrections, as with any compass it should be periodically checked and recalibrated especially after any installation work that could affect the reading. Red Line Instruments are distributed via Point Distribution Ltd.

☎+44(0)1494 677751 ✉ sales@pointdistribution.co.uk www.pointdistribution.co.uk