



COMPASS & HEADING / DIAL REPEATERS

MD68HRB LARGE DUAL SCALE STEERING REPEATER DISPLAY

SKU: F068058

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FEATURES

- **Precision Dual Scale 36:1 Marine Compass Card Display**
- **Designed for Vessel Steering**
- **Automatic selection and prioritisation of NMEA heading data type**
- **Prioritisation of heading type: HDT (true), HDG (magnetic + variation), HDM (magnetic)**
- **Automatic indication of loss of valid heading data**
- **Automatic detection of a previously lost heading data type without requiring a reset**
- **Rotary dimming control with remote connection**

OVERVIEW

The MD68HRB is a dual-scale NMEA-based Steering Repeater with a clear and easy to read analogue dual-scale dial display. The display has an outer dial of 164mm diameter, graduated in 1 degree increments, and an inner dial of 103 mm with a resolution of one tenth of a degree.

The steering repeater is housed in a robust, compact aluminium enclosure fitted with a rotary encoder for controlling the level of background illumination. Finished in Jet Black (RAL9005) Fine-texture Powder Coat to complement other marine navigation equipment.

The MD68HRB offers a steering repeater solution for digital heading data (ship's heading) to be conveniently displayed at any convenient location on a vessel and may be either bulkhead or panel mounted.

The MD68HRB from Marine Data: Flexible in application, easy to install and simple to maintain.

APPLICATIONS

- Displaying True or Magnetic Heading Data transmitted from marine equipment compatible with NMEA 0183 (IEC 61162-1) (Gyro compass, TMC, EMC, GNSS Compass etc.)

ACCESSORIES

- Panel Mounting Kit (Supplied)
- Bulkhead Bracket Mounting Kit

RELATED PRODUCTS

- [MD68HR - Dual Scale Steering Repeater](#)
- [MD69BR - Dual Scale Bearing Repeater](#)
- [MD67HR - Watertight Heading Repeater](#)
- [MD77HR - Heading Repeater](#)
- [MD77HRB - Heading Repeater with rotary control](#)



PHYSICAL

Weight:	2.0 kg (with bulkhead mounting bracket)
Dimensions:	H 220 mm W 246.5mm; D 92mm Fascia 192mm x 192mm x 6mm Outer dial Ø 164 mm; Inner dial Ø 103 mm
Mounting:	Bulkhead or Panel mounted
Connections:	1 x data cable to 15-pin D-sub plug
Construction:	Aluminium alloy enclosure
Finish:	Jet Black (RAL9005) Fine-texture Powder Coat

ELECTRICAL

Power Supply:	24 V dc (18-31 V dc) 6 W nominal
Data input:	Digital RS422; NMEA 0183 protocol 4800 / 9600 / 19200 / 38400 Baud (auto-sensing)
Data sentences:	THS, HDT, HDG and HDM; detected on start-up in descending order of priority
Cable:	2.5 m multicore data cable

ENVIRONMENTAL

IEC 60945 Equipment Category:	Protected Area
Operating temp:	-15°C to +55°C
RoHS:	Compliant
Compass Safe Distance:	Standard: 85 cm Steering: 45 cm

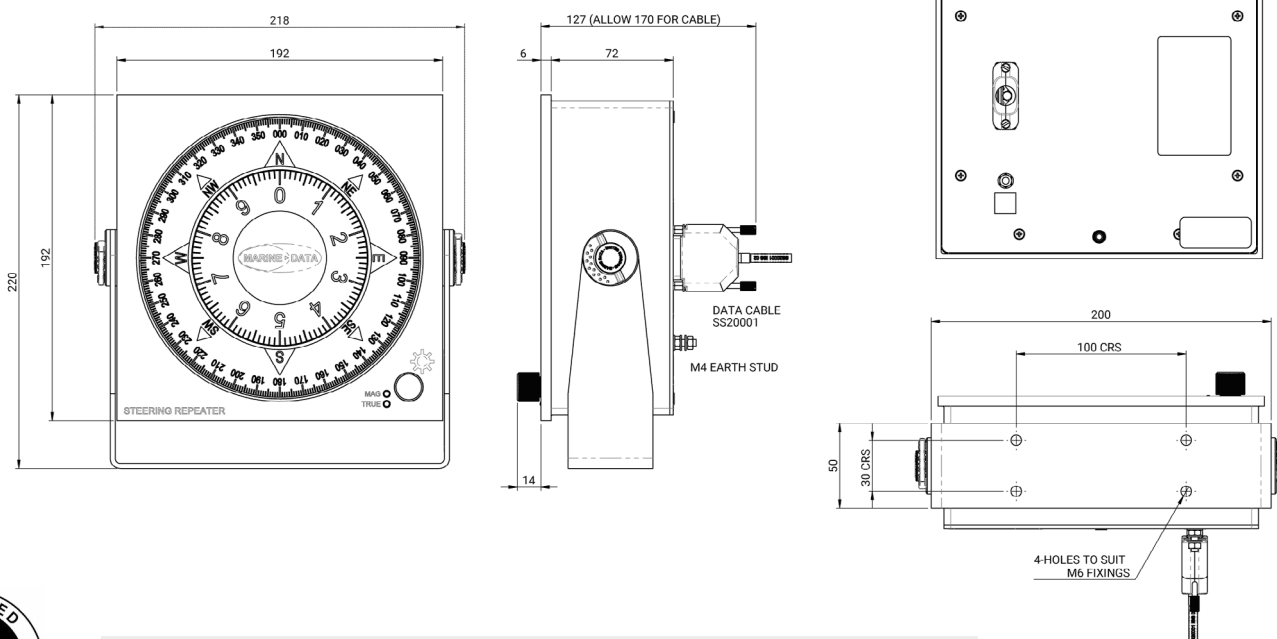
OPERATIONAL

Performance:	± 0.05° accuracy
Follow-Up Rate:	>20° per second
Display:	Concentric dual scale 36:1 rotating dials
Dial Resolution:	Outer scale marked at 1°, 5°, 10°, 45°; Inner scale marked at 0.1°, 1°
Dial Illumination:	LED array with local and remote red tint dimming control.
Error Indication	Dial oscillates ± 35° about the last known good heading.
LED Indication:	True Heading= Blue (BU); Magnetic Heading = Yellow (YE)
Heading Type:	LED indicator for heading source type: Gyro Compass / Magnetic Compass
MTBF:	30,000 hours

APPROVALS

Conforms with:	BS EN 60945:2002 (BSI, 2008) BS EN 61162-1:2016 (BSI, 2016) BS EN 62288:2014 (BSI, 2016) BS ISO 8728:2014 (BSI, 2014) BS ISO 16328:2014 (BSI, 2014) IMO Res. A.424(XI) (IMO, 1979) IMO Res. A.821(19) (IMO, 1995) IMO Res. MSC.36(63) (IMO, 1994) IMO Res. MSC.97(73) (IMO, 2000) IMO Res. MSC191(79) (IMO, 2004)
Type Approval:	DNV

All dimensions in mm



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