STEERING REPEATER

AMI | MARINE | MARINE DATA

...navigation with innovation

MD68HRB
SHIP'S STEERING REPEATER

- Dual Scale 36:1 Marine Compass Card Precision Display
- Designed for Vessel Steering
- NMEA 0183 Digital Input
- Automatic Baud Rate Detection
- True and Magnetic Source Indication
- Rotary Dimming Control with Remote
- Rugged, Marinised Aluminium Construction

OVERVIEW

The MD68HRB from MARINE DATA 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 164 mm diameter graduated in 1 degree increments and an inner dial of 103 mm with a resolution of one tenth of a degree. The MD68HRB is housed in a robust, compact aluminium enclosure fitted with a rotary encoder for controlling the level of background illumination. Finished in jet black to complement other marine navigation equipment, it is ideal for any vessel.

When multiple heading sources are available in the heading data (e.g. True and Magnetic) the MD68HRB automatically prioritises and indicates which heading source is in current use. The encoder has a pushbutton facility for an internal self-test.

Compact and rugged, the MD68HRB offers a steering repeater solution for digital heading data (ship's heading) to be conveniently displayed and monitored at any convenient location on a vessel. Suitable where the available space is limited and may be either bulkhead or panel mounted.

The MD68HRB from MARINE DATA: Flexible in application, easy to install and simple to maintain.

SPECIAL FEATURES

- Dual Scale 36:1 precision concentric dial display suitable for Vessel Steering
- Automatic selection and prioritisation of NMEA heading data type
- Prioritisation of heading type: HDT (true), HDG (magnetic + variation), HDM (magnetic)
- Automatic warning of loss of valid heading data and automatic detection
- of a previously lost heading data type without requiring a reset
- Rotary dimming control with remote connection

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.)
- High Resolution 36:1 Dual Scale Display for Vessel Steering

RELATED PRODUCTS & SYSTEMS

- MD68HR   Dual Scale Steering Repeater – Dial Display
- MD69BR   Dual Scale Bearing Repeater – Dial Display
- MD67HR   Watertight Heading Repeater – Dial Display
- MD77HR   Heading Repeater – Dial Display
- MD77HRB Heading Repeater with rotary control – Dial Display

AMI Marine Ltd
+44(0)2380 480 450
sales@amimarine.com
amimarine.com

PHYSICAL

- **Weight:** 2.0 kg (on bracket)
- **Dimensions:** H 220 mm; W 246.5 mm; D 92 mm
  Fascia 192 x 192 x 6 mm
  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:** RAL9005 Jet Black; fine texture

ELECTRICAL

- **Power Supply:** 24 V dc (18-31 V dc) 6 W nominal
- **Data Input:** Digital RS422; NMEA 0183 protocol 4800 / 9600 / 19200 / 38000 Baud (auto-sensing)
- **Data Sentences:** THS, HDT, HDG and HDM; detected on start-up in descending order of priority
- **Cable:** Supplied with 2.5 m multi-core data cable

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, etc.

- **Dial Illumination:** LED array with local and remote dimming control, Red tint
- **Error Indication:** Dial oscillates ± 35° about the last known good heading. Dial illumination flashes
- **Heading Type:** LED indicator for heading source type: Gyro Compass / Magnetic Compass
- **MTBF:** 30,000 hours

ENVIRONMENTAL

- **IP rating:** IP54
- **Operating temp:** -15°C to +55°C
- **RoHS:** Compliant
- **Compass:** Safe Distance 100 cm
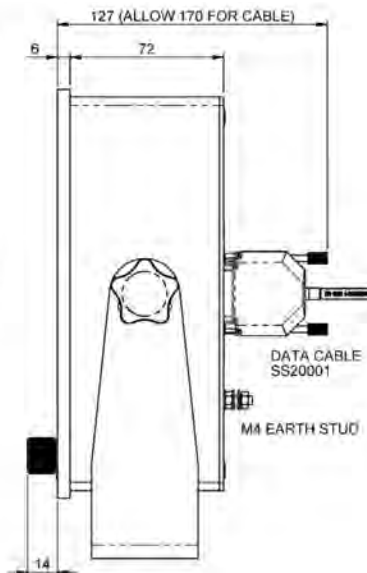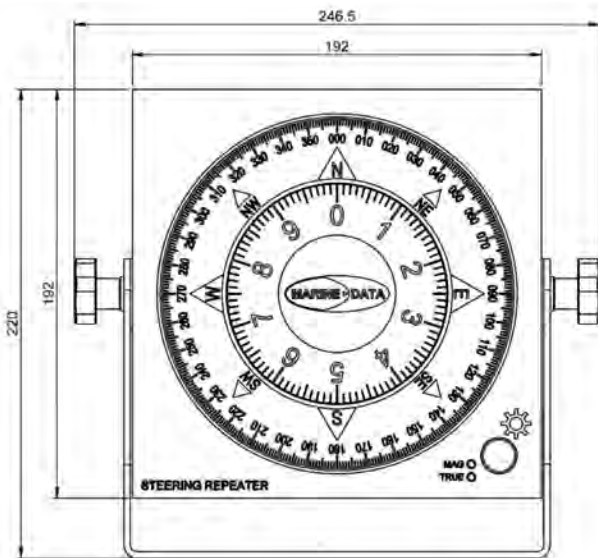
APPROVALS

- **Conforms with:** IEC 60945; IEC 62288; IEC 61162-1; ISO 8728; IMO Resolution A1021 (26)
- **Type Approval:** Pending

ADDITIONAL INFORMATION

- **Supplied:** MD68 - Panel Mounting Kit

ACCESSORIES

- Bulkhead Bracket Mounting Kit MD68TB
- Panel Mount Remote Dimmer SS37120

ALL DIMENSIONS MM