



## COMPASS &amp; HEADING / DIAL REPEATERS

# MD68HR LARGE DUAL SCALE STEERING REPEATER DISPLAY

SKU: F068052

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## FEATURES

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

## OVERVIEW

The MD68HR is a dual-scale NMEA-based Steering Repeater. Digital heading data may be displayed and monitored at any location on a vessel. The inner dial has a resolution of one tenth of a degree.

When multiple heading sources are available in the heading data (e.g. True and Magnetic), the MD68HR allows the user to select the heading source and indicates which heading source is in current use.

Compact and rugged, the MD68HR offers a heading repeater solution for locations where the available space is limited and may be either bulkhead or panel mounted. Finished in Jet Black (RAL9005) Fine-texture Powder Coat to complement other marine navigation equipment.

The MD68HR from Marine Data: flexible in application, easy to install and simple to maintain.

## APPLICATIONS

- The MD68HR displays True or Magnetic Heading Data transmitted from marine equipment compatible with NMEA 0183 (IEC 61162-1) (Gyro compass, TMC, EMC, GPS Compass etc.)

## ACCESSORIES

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

## RELATED PRODUCTS

- [MD68HRB - Dual Scale Steering Repeater with rotary control](#)
- [MD69BR - Dual Scale Bearing Repeater](#)
- [MD67HR - Watertight Heading Repeater](#)
- [MD77HR - Heading Repeater](#)
- [MD77HRB - Heading Repeater with rotary control](#)



PHYSICAL	
<b>Weight:</b>	2.0 kg (with bulkhead mounting bracket)
<b>Dimensions:</b>	H 220 mm W 235mm; D 78 mm Fascia 192mm x 192mm x 6mm Outer dial Ø 164 mm; Inner dial Ø 103 mm
<b>Mounting:</b>	Bulkhead or Panel mounted
<b>Connections:</b>	1 x data cable to 15-pin D-sub plug
<b>Construction:</b>	Aluminium alloy enclosure
<b>Finish:</b>	Jet Black (RAL9005) Fine-texture Powder Coat

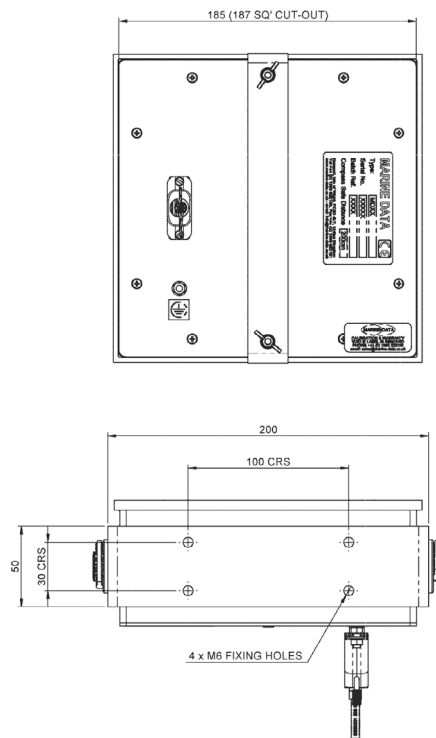
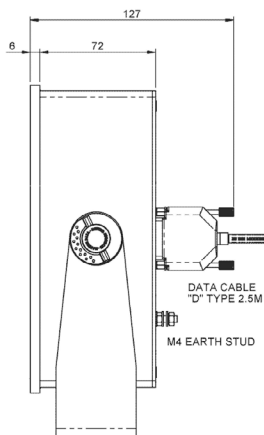
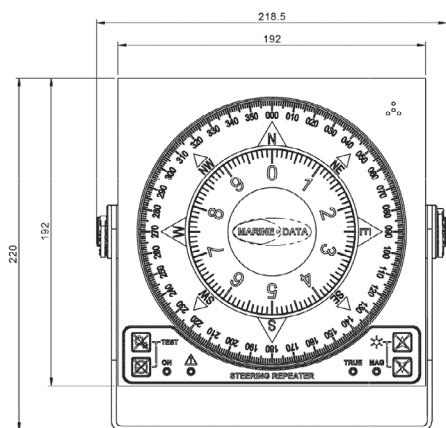
ELECTRICAL	
<b>Power Supply:</b>	24 V dc 6 W nominal (18-31 V dc)
<b>Data input:</b>	Digital RS422; NMEA 0183 protocol 4800 / 9600 / 19200 / 38400 Baud (auto-sensing)
<b>Data sentences:</b>	THS, HDT, HDG and HDM; detected on start up in descending order of priority
<b>Cable:</b>	2.5 m multicore data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

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

OPERATIONAL	
<b>Performance:</b>	± 0.05° accuracy
<b>Follow-Up Rate:</b>	>20° per second
<b>Display:</b>	Concentric dual scale 36:1 rotating dials
<b>Dial Resolution:</b>	Outer scale marked at 1°, 5°, 10°, 45° Inner scale marked at 0.1°, 1°
<b>Dial Illumination:</b>	LED array with local and remote dimming control. Red tint.
<b>Error Indication:</b>	Loss of valid data: Dial oscillates ±35° about the last known good heading.
<b>Heading Type:</b>	LED indicator for heading source type: Gyro Compass / Magnetic Compass
<b>MTBF:</b>	30,000 hours

APPROVALS	
<b>Conforms with:</b>	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)
<b>Type Approval:</b>	DNV

All dimensions in mm



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