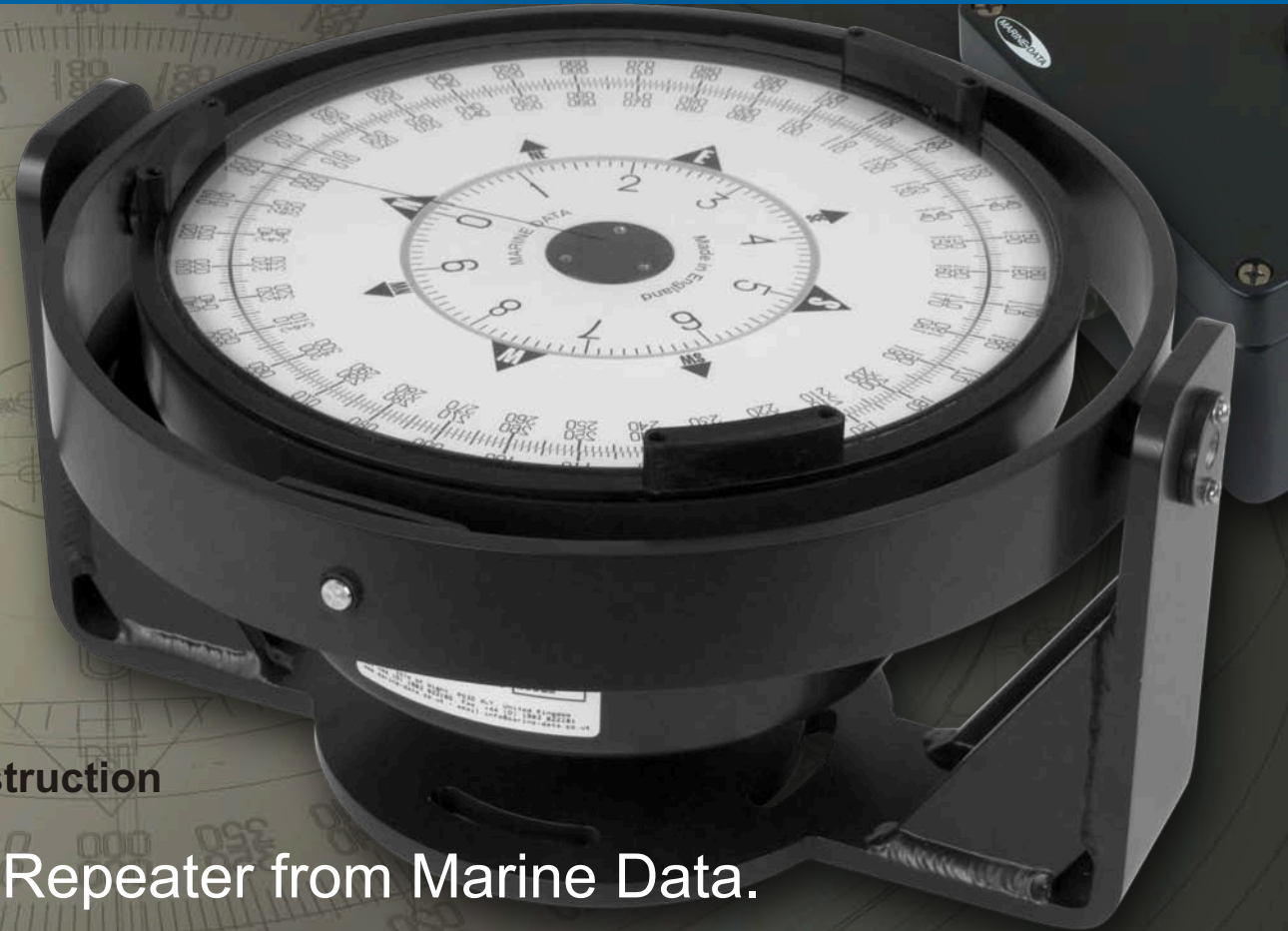


BEARING COMPASS REPEATER

MD69/8

- A precision gimballed compass repeater with a dual scale 36:1 concentric display
- For taking bearings on board marine vessels
- Suitable for use with the MARINE DATA MD69/AZI Azimuth Sight
- Traditional marine compass card design
- Accepts digital NMEA 0183 heading data
- Automatically detects and prioritises the available NMEA heading data for display
- Mountable on a flat surface, on a bulkhead or on a pedestal
- Controllable dial illumination
- Rugged, marinised aluminium alloy construction



The MD69/8 Bearing Compass Repeater from Marine Data.

MARINE DATA

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SPECIFICATIONS

Physical

- Weight: 7.2kg (balanced to accept optional azimuth sight MD69/AZI)
- Dimensions: 300mm overall width; 336mm overall length; 157mm overall height when level (169mm overall height if optional azimuth sight guides are fitted). Bowl diameter 246mm
- Installation: 000°-180° axis parallel with ship's centreline; 000° forwards
- Mounting:
 - Gimbal assembly mountable directly to flat surface;
 - Bulkhead mountable (with optional MD22 bulkhead mount)
 - Pedestal mountable
- Connections: 2m captive cable to sealed terminal box with variable illumination control
- Construction: Aluminium alloy enclosure; 6mm glass face
- Finish: Stove enamel, black-grey (RAL7021)

Electrical

- Power supply: 24V DC 10VA
- Data input: Digital RS422 NMEA 0183; 4800 BAUD; 1 start bit; 8 bits; no parity; 1 stop bit
- Data sentences detected: HDT, HDG and HDM; detected on start-up in descending order of priority
- Cable requirements: Data cable 7/0.2 (7 conductors, 0.2mm² each)

Operational

- Performance: $\pm 0.3^\circ$ accuracy
- Follow-up rate: 12° per second
- Display: Dial type with concentric dual scales; 195mm diameter outer card; 105mm inner card; 16mm (visible) verge ring; lubber line at 000°
- Display resolution: 0.1°
- Outer scale of 360° = 1 revolution; graduations at 1°, 5°, 10° and 45°. Inner scale of 10° = 1 revolution; graduations at 0.1° and 1°. Gear ratio between the dual scales = 36:1
- Display illumination: LED array with variable brightness
- Orientation: Verge ring orientated with 000°-180° along the roll axis
- Gimbal action: Roll 30° (max. 58°); pitch 20° (max. 90°)

- Loss of valid data: Dial oscillates $\pm 35^\circ$ about the last known good heading and the dial illumination flashes (this is an alert condition)

Environmental

- IP rating: Splashproof to IP65
- Operating temperature range: -20°C to +60°C
- Maximum operating humidity: 94% @ 40°C
- RoHS compliant

Optional accessories:

- Bulkhead mounting bracket MD22 and terminal box with variable illumination control; available in matching paint finish (RAL7021)
- Terminal box is available separately as MD69/CB when bracket mount is not required
- Quick release mounting bracket MD27 for submarine conning tower use; allows the compass repeater to be removed safely and stowed away
- Azimuth Sight (Thomson pattern) MD69/AZI for taking accurate bearings of both terrestrial and celestial objects

Additional Information

- Independently tested to IEC60945: 2002 by TÜV Product Service Ltd. (includes MD69/CB)



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