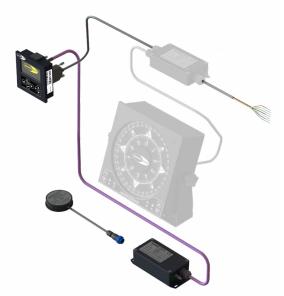
DATASHEET





FEATURES

- Provides Digital Heading Data from a Ship's Magnetic Compass
- Unparalleled Accuracy; Intuitive
 Operator Controls
- Correction of Magnetic Deviation and Variation
- Automatic Sensor-to-Compass
 Calibration
- Rugged, IP65 rated Magnetic Sensors
- Industry Proven Design
- Bright OLED display provides high contrast and wide viewing angles

Increasingly, Maritime Authorities are accepting the use of Transmitting Heading Device (THD) Systems on board vessels.

Marine Data offers two types of THD system:

- A system which senses the angular position of a ship's magnetic compass card; known as a Transmitting Magnetic Compass System (TMC)
- A system which directly senses the Earth's magnetic field; known as an Electro-Magnetic Compass System (EMC)

TRANSMITTING HEADING DEVICES / TMC SYSTEM

MD71TMC TRANSMITTING MAGNETIC COMPASS SYSTEM

SKU F071100

View Online >

OVERVIEW

The MD71TMC is a Transmitting Magnetic Compass (TMC) System which uses the latest technology to accurately process and convert the ship's magnetic compass heading to NMEA 0183 heading data with unparalleled accuracy to one or more Heading Repeaters (Compass Repeaters) at any convenient location on a vessel.

Instead of using inflexible and bulky optical apparatus (reflectors, periscopes etc.) to view the magnetic compass, electronic remote displays may be used in the form of a Compass Repeater.

TMC systems from Marine Data are simple and intuitive to use with quick and easy installation and on-board calibration.

APPLICATIONS

- Provides a digital NMEA heading output to drive a Heading Repeater (or other devices) at a convenient location
- An elegant alternative to using an optical reflector in a ship's magnetic compass installation

ACCESSORIES

- Trunnion Bracket Kit for MD71THD Control Head
- MD54 Compass Sensor Adhesive Mount
- MD58 Compass Sensor Bracket Mount

RELATED PRODUCTS

- <u>MD96JB/8</u> Junction Box to supply power and act as breakout box for 2x NMEA 0813 data channels
- <u>MD94DDU</u> Data Distribution Unit to supply power and for feeding several Heading Repeaters
- The complete range of Marine Data Heading Repeaters

SPECIFICATIONS



| PHYSICAL | |
|-------------------------|--|
| Weight & Dimensions: | MD71THD: H 96; W 96; D 35 (mm); 0.50 kg MD97CSP: L 146; W 64; D 41 (mm); 0.35 kg MD52A/B: H 18; Ø 69 (mm); 0.12 kg Excludes cables & connectors |
| Mounting: | MD71THD: Panel mount; Trunnion (optional) MD52A/B: MD54 or MD58 Mountings direct to compass |
| Connections: | MD71THD: 15-way D-type plug; 9-way D-type socket; MD52A/B: Buccaneer™ type male MD97CSP: Buccaneer™ type female; 1x Gland |
| Finish: | RAL7040 Window Grey, semi-gloss |
| Finish: | KAL/U4U WINDOW Grey, Semi-gloss |

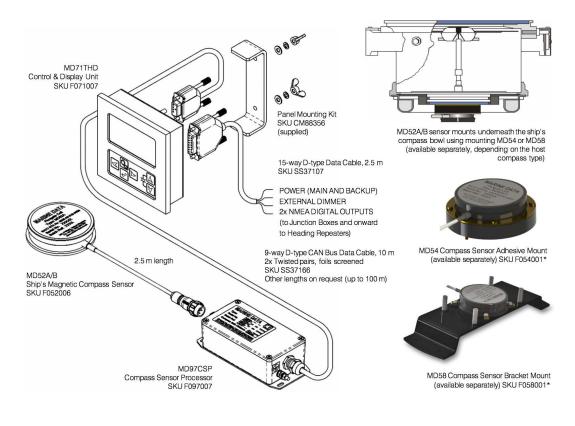
| ELECTRICAL | |
|-----------------|----------------------------|
| Power Supply: | 24 V dc; 6 W |
| Data Output: | 2x NMEA 0183 Data Channels |
| Data Sentences: | HDT, HDG and HDM |

| APPROVALS | |
|----------------|------------------------|
| Conforms with: | IEC 60945; IEC 61162-1 |

| OPERATIONAL | |
|--------------|---|
| Performance: | ± 1.0° resolution |
| Accuracy: | <= 0.5° after ADC (depending on sensor) |
| Display: | 2.7" (128 x 64 pixels); OLED - Yellow |
| Alarms: | Audible sounder |

| ENVIRONMENTAL | |
|-----------------|---|
| IP rating: | MD71THD: IP54 MD97CSP: IP65 MD52A/B: IP65 |
| Operating temp: | -15°C to +55°C |
| Storage temp: | -25° C to +70° C |
| RoHS: | Compliant |
| Compass: | Safe Distance: (MD71THD & MD97CSP): 50cm |

| ADDITIONAL | |
|------------|---------------------------------------|
| Supplied: | Panel Mounting Kit |
| Supplied: | 15-way D-type data cable, 2.5 m |
| Supplied: | 9-way D-type CAN Bus data cable; 10 m |



*One sensor mount is a required option (available separately) - depending on the type of host magnetic compass; please contact Marine Data to obtain the correct mount

**The MD71THD Control and Display Unit can display the heading in numeric form as a basic heading repeater (compass repeater). However, we always recommend using a dedicated Marine Data Heading Repeater suitable for the precise purpose to which it will be put (e.g. a repeater for steering the vessel; a repeater for taking bearings; a repeater to be mounted on the bridge wing, etc.)



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