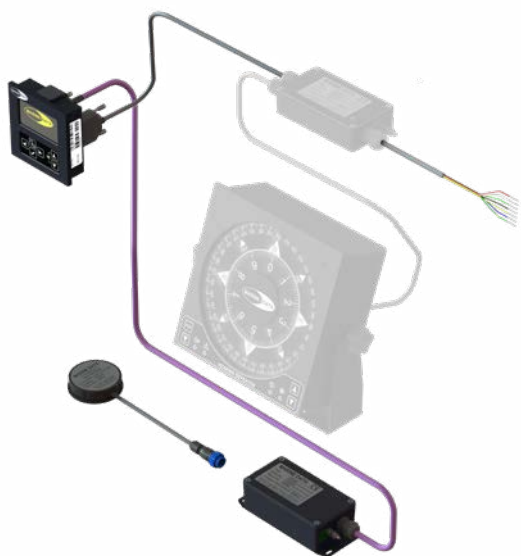




TRANSMITTING HEADING DEVICES / TMC SYSTEM

MD71TMC TRANSMITTING MAGNETIC COMPASS SYSTEM - ADVANCED

SKU: MNE-0025

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)

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

- MD54 - Compass Sensor Adhesive Mount
- MD58 - Compass Sensor Bracket Mount
- MD71TB - Trunnion Bracket Kit for Display & Control Head
- MD96JB/8 - Junction Box to supply power and act as breakout box for 2x NMEA 0813 data channels
- MD94DDU - Data Distribution Unit to supply power and for feeding several Heading Repeaters

RELATED PRODUCTS

- MD97TMC - Standard Transmitting Magnetic Compass System
- MD71EMC - Electro-magnetic Compass System

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
Mounting:	MD52A/B: H 18; Ø 69 (mm); 0.12 kg
	<i>Excludes cables & connectors</i>
Connections:	MD71THD: Panel mount; Trunnion (optional)
	MD52A/B: MD54 or MD58 Mountings direct to compass
Finish:	MD71THD: 15-way D-type plug; 9-way D-type socket;
	MD52A/B: Buccaneer™ type male
	MD97CSP: Buccaneer™ type female; 1x Gland

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

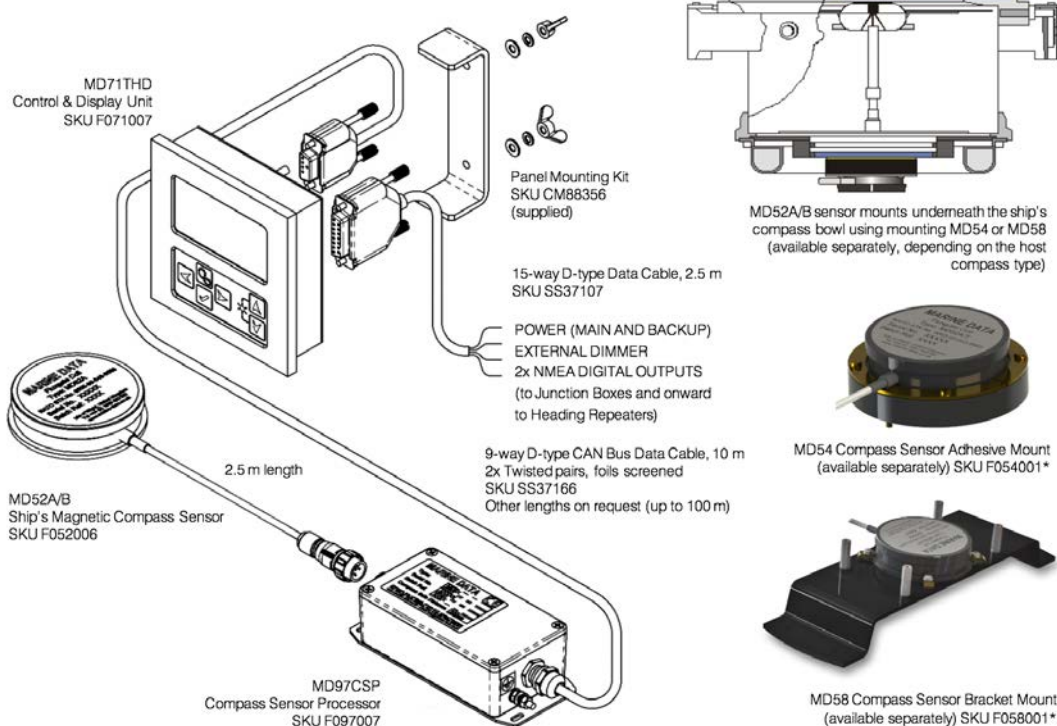
Performance:	± 1.0° resolution
Accuracy:	≤ 0.5° after ADC (depending on sensor)
Display:	2.7" (128 x 64 pixels); OLED - Yellow
Alarms:	Audible sounder

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.)



Copyright © 2019 Marine Data Systems Ltd. - MD71TMC Datasheet v06r02

Vittlefields Technology Centre, Forest Road, Newport, Isle of Wight, United Kingdom. PO304LY
Marine Data Systems Ltd. reserves the right to make changes to its products and specifications without prior notice.