



FEATURES

- Provides Digital Heading Data from a Ship's Magnetic Compass
- Unparalleled Accuracy and Intuitive Operator Controls
- Correction of Magnetic Deviation and Variation
- Automatic Sensor-to-Compass Calibration
- Magnetic Sensors Fully sealed to IEC 60945 Exposed Area Classification
- 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 - ADVANCED

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

- 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-magnete Compass System

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:	Jet Black (RAL9005) Fine-texture Powder Coat

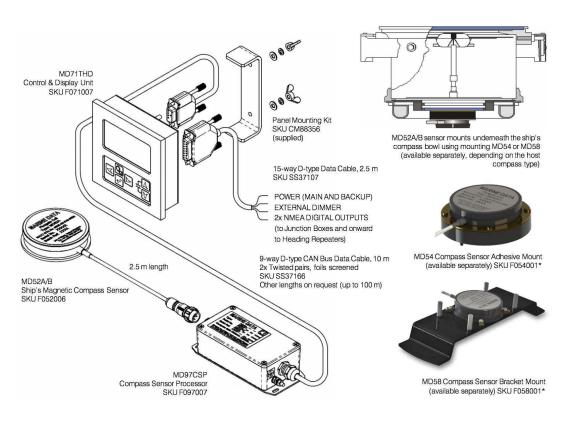
ELECTRICAL	
Power Supply:	24 V dc; 6 W
Data Output:	2x NMEA 0183 Data Channels
Data Sentences:	HDT, HDG and HDM

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	
IEC 60945 Equipment Category:	MD71THD: Protected Area MD97CSP: Exposed Area MD52A/B: Exposed Area
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.)



APPROVALS

Conforms with:

Copyright © 2021 Marine Data Systems Ltd. - MD71TMC Datasheet v06r03

Vittlefields Technology Centre, Forest Road, Newport, Isle of Wight, United Kingdom. P0304LY Marine Data Systems Ltd. reserves the right to make changes to its products and specifications without prior notice.