

FEATURES

- Provides Digital Heading Data from a Ship's Magnetic Compass
- Simplified system design with just two main components
- Unparalleled Accuracy; Intuitive Operator Controls
- Automatic Sensor-to-Compass Calibration
- Magnetic Sensors Fully sealed to IEC 60945 Exposed Area Classification
- 2x NMEA 0183 outputs

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

MD97TMC TRANSMITTING MAGNETIC COMPASS SYSTEM – STANDARD

SKU: F097100 View Online >

OVERVIEW

The MD97TMC is a Transmitting Magnetic Compass (TMC) System which detects and transmits the ship's Compass Heading over a NMEA 0183 digital connection to one or more Heading Repeaters (Compass Repeaters) at any convenient location on a vessel.

The Calibration Control and Sensor Processor is used to calibrate the Compass Sensor by turning the ship through 390°. The latest technology accurately processes and converts compass card position to NMEA 0183 Heading Data.

The Marine Data MD97TMC Transmitting Magnetic Compass System is intuitive to use with quick and easy installation.

APPLICATIONS

- Provides 2 digital NMEA heading outputs to drive Heading Repeaters (or other devices) at a convenient location
- An elegant alternative to using an optical reflector in a ship's magnetic compass installation

ACCESSORIES

- MD71THD Control & Display unit provides additional functionality
- MD54 Compass Sensor Adhesive Mount
- MD58 Compass Sensor Bracket Mount

RELATED PRODUCTS

- 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
- The complete range of Marine Data <u>Heading Repeaters</u>

SPECIFICATIONS

Finish:



PHYSICAL	
Weight & Dimensions:	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:	MD97CSP: Surface Mount MD52A/B: MD54 or MD58 Mountings direct to compass
Connections:	MD97CSP: Buccaneer™ type female MD52A/B: Buccaneer™ type male

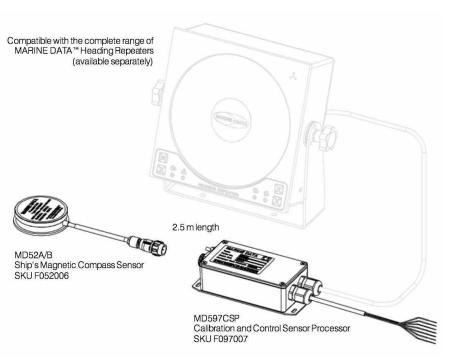
ELECTRICAL	
Power Supply:	24 V dc; 1.5 W
Data Output:	2x NMEA 0183 Data Channels (Heading)

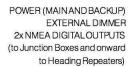
Jet Black (RAL9005) Fine-texture Powder Coat

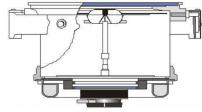
OPERATIONAL	
Performance:	± 1.0° resolution
Accuracy:	<= 0.5° after ADC (depending on sensor)
Alarms:	Relay contact

ENVIRONMENTAL		
IEC 60945 Equipment Category:	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: (MD97CSP): 50cm	
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APPROVALS	
Conforms with:	IEC 60945; IEC 61162-1







MD52A/B sensor mounts underneath the ship's compass bowl using mounting MD54 or MD58 (available separately, depending on the host compass type)



MD54 Compass Sensor Adhesive Mount (available separately) SKUF054001*



MD58 Compass Sensor Bracket Mount (available separately) SKUF058001*

*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.



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