



## COMPASS &amp; HEADING / TAPE REPEATERS

# MD73HR/W WEATHERPROOF TAPE COMPASS HEADING REPEATER

SKU F073051

[View Online >](#)

## FEATURES

- **Large Format, High Contrast True Moving Tape Display**
- **Ingress Protected to IPX6**
- **LED Course to Steer Display**
- **NMEA Digital Input**
- **Automatic selection and prioritisation of NMEA heading data type**
- **Automatic warning of loss of valid heading data**
- **Automatic detection of previously lost heading data without requiring a reset**
- **True / Magnetic Source Indication**
- **Rugged Construction**
- **Local Dimming Control**

## OVERVIEW

The MD73HR/W is a weatherproof NMEA-based heading repeater with a true moving tape display. Digital heading data (ship's heading) may be conveniently displayed at any location on a vessel. The heading repeater is ingress protected to IPX6.

The MD73HR/W can be set to show the course to steer over a  $\pm 30^\circ$  range on an illuminated LED bar-type display.

Compact and rugged, the MD73HR/W offers a heading repeater solution for locations where the available space is limited and may be either bulkhead or panel mounted. Finished in jet black to complement other marine navigation equipment.

The MD73HR/W from Marine Data: flexible in application, easy to install and simple to maintain.

## APPLICATIONS

- Repeats the heading display of a ship's magnetic or gyro compass at any convenient location on a vessel
- Heading display for an Electro-magnetic Compass System

## ACCESSORIES

- Panel Mounting Kit (Supplied)
- Bulkhead Bracket Mounting Kit

## RELATED PRODUCTS

- [MD73HR](#) - Tape Compass Repeater (IP54)
- [MD73SR](#) - Submarine Tape Compass Repeater
- The complete range of Marine Data [Heading Repeaters](#)
- [Transmitting Heading Device \(THD\) System](#)

## CERTIFICATIONS



GL Type Approved

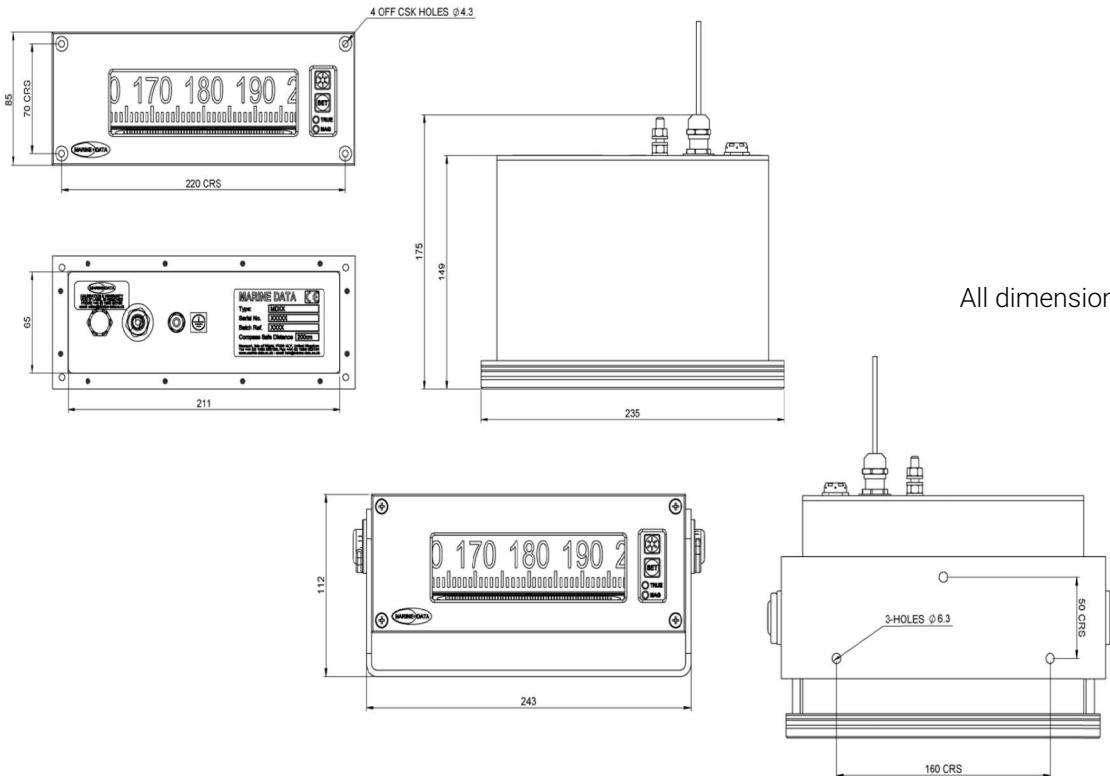
PHYSICAL	
<b>Weight:</b>	2.5 kg
<b>Dimensions:</b>	H 123 mm; W 290 mm; D 150 mm Fascia 235 x 85 x 4 mm
<b>Mounting:</b>	Panel mount or Bulkhead mount (accessory)
<b>Connections:</b>	1x 8 core captive data cable to bare tails; M4 earth stud
<b>Construction:</b>	Aluminium alloy enclosure
<b>Finish:</b>	RAL9005 Jet Black; fine texture

ELECTRICAL	
<b>Power Supply:</b>	24 V dc 6 W nominal (22 V -31 V dc)
<b>Data input:</b>	Digital RS422 NMEA 0183; 4800 & 9600 Baud
<b>Data sentences:</b>	HDT, HDG and HDM; detected on start-up in descending order of priority
<b>Cable:</b>	2.5 m multicore data cable

APPROVALS	
<b>Conforms with:</b>	IEC 60945:2002; IEC 62288:2008; IEC 61162-1:2011 ISO 8728:1997; IMO Resolution A1021 (26) IEC 60945
<b>Type Approval:</b>	Germanischer Lloyd (GL)

OPERATIONAL	
<b>Performance:</b>	± 0.1° resolution
<b>Follow-Up Rate:</b>	10° per second
<b>Display:</b>	Continuous moving tape; H 44mm; L 1440mm
<b>Resolution:</b>	Scale marked at 1°, 5° and 10° (1° = 4 mm)
<b>Illumination:</b>	LED array; dimming control; red tint
<b>LED Display:</b>	Course to Steer; 61 Yellow LEDs; Heading range ± 30°; Out of range LED indicators: Red (port) and Green (starboard) LED Resolution: 1 element = 1°
<b>Loss of valid data:</b>	LED bar display shows a repeated cycle of diverging lights moving from centre (error condition)

ENVIRONMENTAL	
<b>IP rating:</b>	IPX6
<b>Operating temp:</b>	-15°C to +55°C
<b>Storage temp:</b>	-25°C to +70°C
<b>RoHS:</b>	Compliant
<b>Magnetic:</b>	Magnetic Permeability Category 'A'
<b>Compass:</b>	Safe Distance 100 cm



Copyright © 2018 Marine Data Systems Ltd. - MD73HR/W Datasheet v06r01

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.