

RUDDER INSTRUMENTATION / RUDDER ANGLE INDICATORS

MD72RDI PANORAMIC RUDDER ANGLE INDICATOR

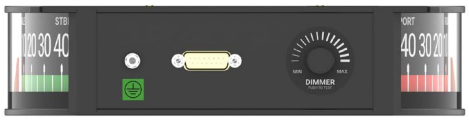
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FEATURES

- **Large Format 3-Face Analogue Display**
- **Illuminated Moving Pointers**
- **Automatic Baud Rate Detection**
- **Local and Remote Dimming Control**
- **Accepts Digital NMEA 0183 Data from a Rudder Angle Sensor**
- **Automatic warning of lost valid rudder sensor angle data**
- **Automatic detection of previously lost heading data without requiring a reset**
- **Deckhead Mounting**

Connections & Dimmer



Black Background Scales

(Supplied as Standard)



White Background Scales

(Optional Variant)



OVERVIEW

The MD72RDI is a NMEA-compliant, three-window Panoramic Rudder Angle Indicator with a 250 mm diameter, offering a clear and easily readable display of rudder angle from any position on the bridge. Each display window features an analogue scale with 5° graduations, ranging from 45° Port to 45° Starboard. The unit is housed in a durable aluminium alloy enclosure, equipped with a dimmer control on the rear, for adjusting the background and pointer lighting.

Compact and sturdy, the MD72RDI provides an ideal panoramic rudder angle indication solution for spaces where space is limited.

It can be deckhead mounted directly or with the optional VESA bracket for a fine-tuned, angled adjustment, and is finished in a sleek jet-black powder-coat to match other marine navigation equipment.

The MD72RDI: Versatile, easy to install, and simple to maintain.

APPLICATIONS

- External use on a seagoing vessel
- Used to display Rudder Sensor Angle (RSA) data transmitted from marine equipment compatible with the NMEA 0183 data protocol
- Two units may be used to display dual rudder positions

ACCESSORIES

- Optional VESA 100 Deckhead Mounting Kit



RELATED PRODUCTS

- MD61 - Rudder Angle Transmitter
- MD94DDU - Data Distribution Unit
- The complete range of Rudder Angle Indicators from Marine Data

SPECIFICATIONS

PHYSICAL	
Weight:	2.0 kg
Dimensions:	H 64 mm; W 270 mm; D 233 mm (inc. cable)
Mounting:	Deckhead mounting holes for M6 bolts; Optional VESA 100 Deckhead Mounting (not supplied as standard)
Connections:	1x data cable to 15-pin D-sub plug; M4 earth stud
Construction:	Aluminium alloy enclosure
Finish:	RAL9005 Jet Black; Fine-texture Powder-coat

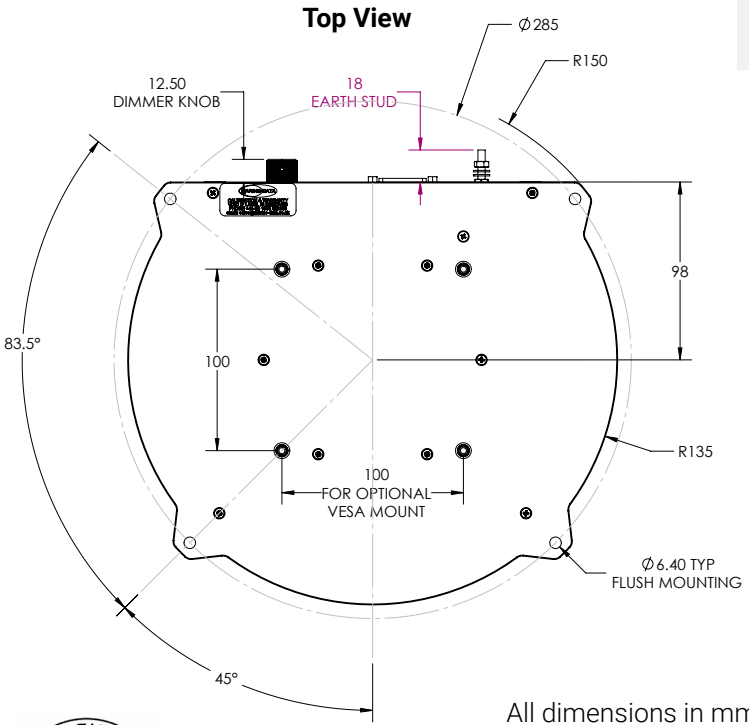
ELECTRICAL	
Power Supply:	24 V dc (18-32 V) 6 W nominal
Data input:	Digital RS422; NMEA 0183; 4800, 9600, 19200, 38000 Baud (auto-selecting)
Data sentence:	($--RSA, x.x, A, x.x, A, x.x, A, x.x, A *hh<CR><LF>)
Cable:	Supplied with 2.5 m multi-core data cable

OPERATIONAL	
Performance:	±0.5° accuracy; 40°sec-1 follow-up rate
Illumination:	White backlighting; Orange pointers
Display:	3-quadrant 250 mm diameter scales marked in 5° increments to 45° Port and 45° Starboard
Error Indication:	Loss of valid data: Pointers park at the far left or right; background illumination flashes
MTBF:	30,000 hours

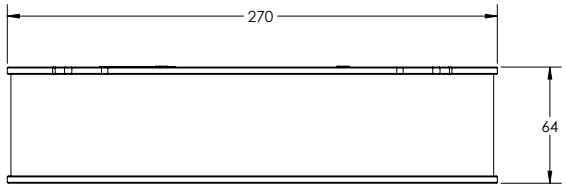
ENVIRONMENTAL	
IP rating:	IP54
Operating temp:	-15°C to +55°C
Storage temp:	-25°C to +70°C
RoHS:	Compliant
Magnetic:	Magnetic Permeability: Category 'A'
Compass:	Safe Distance 100 cm

APPROVALS	
Conforms with:	BS EN 60945:2002 Inc. corrigendum April 2008 (BSI, 2008) BS EN IEC 61162-1:2024 (BSI, 2024) BS EN IEC 62288:2022+A1:2024 (BSI, 2024) ISO 20673:2022 (BSI, 2022) IMO Resolution A.694(17) IMO Res. MSC.36(63) (IMO, 1994) IMO Res. MSC.97(73) (IMO, 2000) IMO Res. MSC191(79) (IMO, 2004)
Wheelmark:	DNV Wheelmark (0098) when installed as part of the Marine Data Rudder Angle Indicator System

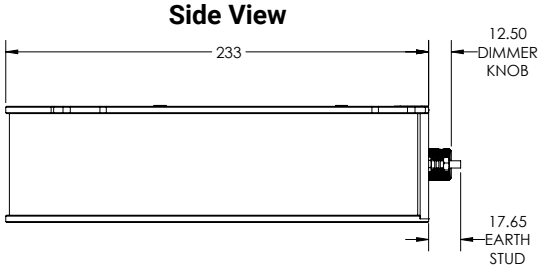
Top View



Front View



Side View



All dimensions in mm

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Vittlefields Technology Centre, Forest Road, Newport, Isle of Wight, United Kingdom. PO304LY

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