PROJECT SPECIFIC PRODUCT RANGE



RUDDER INSTRUMENTATION / RUDDER ANGLE INDICATORS

MD68RDI LARGE DIAL RUDDER ANGLE INDICATOR

SKU: F068202

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FEATURES

- **Large Dial Display**
- **Automatic warning of lost valid rudder sensor angle data**
- **Automatic detection of previously lost rudder sensor angle data without a reset being required**
- **Local and Remote dimming control**

OVERVIEW

The MD68RDI is a NMEA-based Rudder Angle Indicator, displaying the Rudder Angle in degrees. Housed in a robust, compact aluminium enclosure, with a touch panel for background and pointer illumination, it is ideal for any vessel.

The MD68RDI provides a clear and easy to read 164 mm diameter analogue display graduated in 1 degree increments. Rudder deflection range: Up to 40 degrees to Port and Starboard.

Compact and rugged, the MD68RDI offers a 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 MD68RDI from Marine Data: flexible in application, easy to install and simple to maintain.

APPLICATIONS

- To display RSA Rudder Sensor Angle Data transmitted from marine equipment compatible with the NMEA 0183 data protocol (for example, the Marine Data MD61 Rudder Angle Transmitter)
- Can be used with another indicator to show dual rudder positions for a vessel equipped with dual rudders

ACCESSORIES

- Panel Mounting Kit (Supplied)
- MD68TB - Bulkhead Bracket Mounting Kit
- MD01PMD - Remote Dimmer Control (0-24 V dc)

RELATED PRODUCTS

- MD61 - Rudder Angle Transmitter
- MD94DDU - Data Distribution Unit
- Rudder Angle Transmission and Indication System

This product is an example of a baseline specification which we are not currently stocking as a standard product. Please contact us with your project-specific requirements, and we can discuss opportunities to provide a bespoke solution.

SPECIFICATIONS

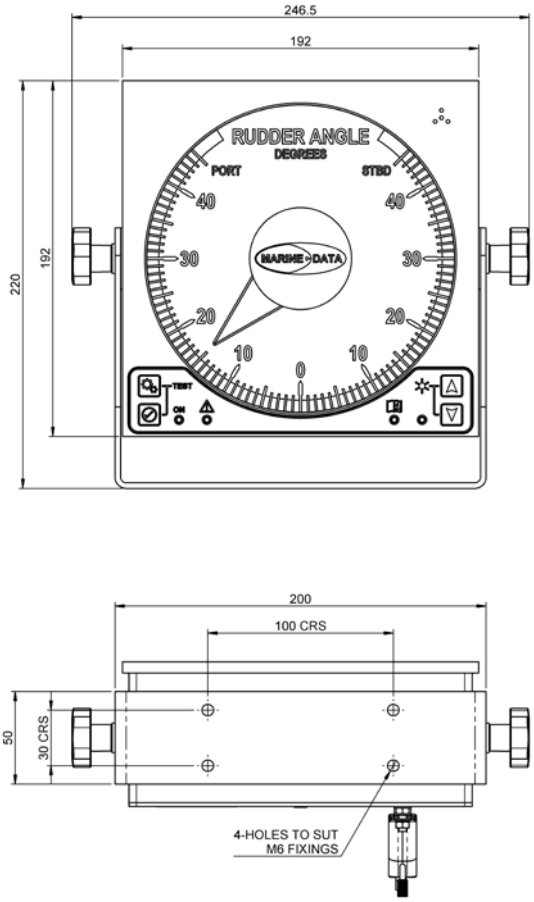
PHYSICAL	
Weight:	2.0 kg (on bracket)
Dimensions:	H 220 mm; W 246 m; D 120 mm (on bracket) Fascia 192 mm x 192 mm x 6mm; dial Ø 164 mm 187 mm square panel cut out required
Mounting:	Panel mount or optional Bulkhead mounted
Connections:	1x data cable to 15-pin D-sub plug; M4 earth stud
Construction:	Aluminium alloy enclosure
Finish:	RAL9005 Jet Black; fine texture

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 ($--RSA,x.x,A,x.x,A*hh<CR><LF>)
Cable:	Supplied with 2.5 m multi-core data cable

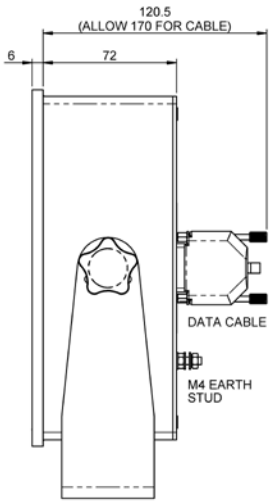
OPERATIONAL	
Performance:	±0.5°/min accuracy; Alignment rate in excess of 40° per second
Additional:	Backlit white illumination; Remote Dimmer Control
Display:	Rudder Angle; range 0-40°; scale graduated in 1° increments; full scale deflection 45º
LED Indicators:	Alarm Fault Indication = Red (RD); Set-up Mode = Blue (BU)
Error Indication:	Loss of Valid Data: Pointer assumes a vertical upward position and illumination flashes (alert condition)
MTBF:	30,000 hours

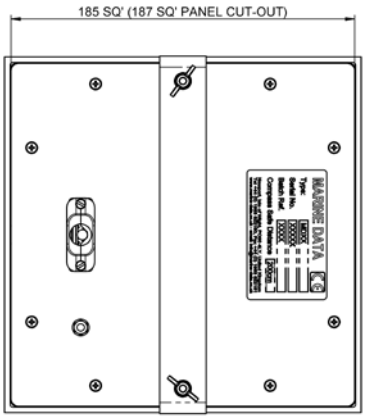
ENVIRONMENTAL	
IP rating:	IP54
Operating temp:	-15°C to +55°C
Storage temp:	-25°C to +70°C
RoHS:	Compliant
Magnetic:	Magnetic Permeability: Category 'A'
Compass:	Safe Distance 100 cm

APPROVALS	
Conforms with:	IEC 61162-1 (NMEA); IEC 60945 IEC 62288; ISO 20673; IMO Res. A694 (17) IMO Res. A1021 (26); IMO Res. MSC191 (79)
Type Approval:	Pending



All dimensions in mm





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