



FEATURES

- **Weatherproof Marinised Rudder Angle Indicator**
- **Clear and Easily Readable Dial Display**
- **Displays Rudder Angle up to 40° Port and Starboard**
- **Accepts Digital RS422 NMEA 0183 (RSA) data from a Rudder Angle Transmitter**
- **Bulkhead or Panel Mount Options**
- **Rotary Dimmer with Push Control**
- **Fully sealed to IEC 60945 Exposed Area Classification**
- **Wheelmark Approved when installed as part of a Marine Data Rudder Angle Indication System**

RUDDER INSTRUMENTATION / RUDDER ANGLE INDICATORS

MD67RDI WEATHERPROOF DIAL RUDDER ANGLE INDICATOR

SKU: F067202

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OVERVIEW

The MD67RDI is a weatherproof, NMEA-based Rudder Angle Indicator. Housed in a robust, compact aluminium enclosure which is fully sealed to IEC 60945 Exposed Area Classification for external or internal use, and is ideal for any vessel.

The MD67RDI provides a clear and easy to read 118 mm diameter analogue display graduated in 1 degree increments. Rudder deflection range: Up to 40 degrees to Port and Starboard. It features a tough polycarbonate faceplate and a rotary encoder control for varying the background and pointer illumination.

This unit may be either bulkhead or panel mounted. Finished in Jet Black (RAL 9005) Fine-texture Powder Coat to complement other marine navigation equipment.

The MD67RDI from Marine Data: flexible in application, easy to install and simple to maintain.

APPLICATIONS

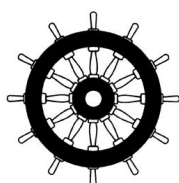
- External use on a seagoing vessel
- Used to display RSA Rudder Sensor Angle Data transmitted from marine equipment compatible with the NMEA 0183 data protocol
- Two units may be used to display dual rudder positions

ACCESSORIES

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

RELATED PRODUCTS

- [MD61](#) - Rudder Angle Transmitter
- [MD94DDU](#) - Data Distribution Unit
- The complete range of [Rudder Angle Indicators](#) from Marine Data



Wheelmark 0098

PHYSICAL

Weight:	1.5 kg (with bulkhead mounting bracket)
Dimensions:	H 174 mm; W 221 mm; D 100 mm (on bracket) Fascia 160 mm x 160 mm; Dial Ø 118 mm
Mounting:	Panel or optional Bulkhead mounted
Connections:	Multicore cable through watertight gland
Construction:	Aluminium alloy enclosure
Finish:	Jet Black (RAL 9005) Fine-texture Powder Coat

ELECTRICAL

Power Supply:	24 V dc (18-32 V) 4 W nominal
Data input:	Digital RS422 NMEA 0183; 4800 / 9600 / 19200 / 38400 Baud; auto-selecting
Data sentence:	RSA (\$-RSA,x.x,A,x.x,A*hh<CR><LF>)
Cable:	2.5 m captive data cable to bare tails

OPERATIONAL

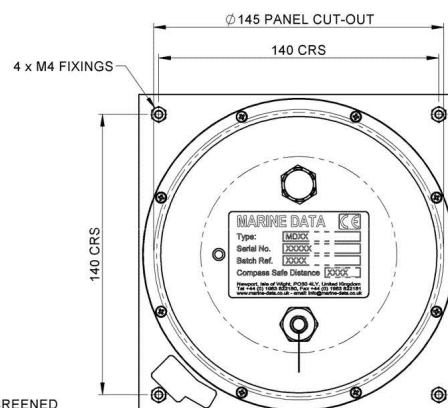
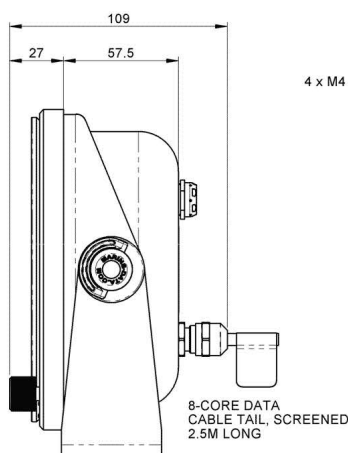
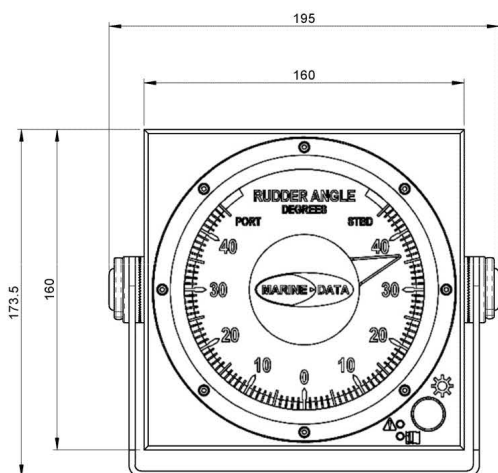
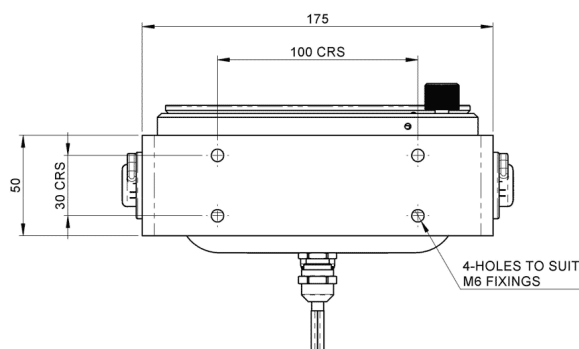
Performance:	±0.5°/min accuracy; Alignment rate in excess of 40° per second
Dial Illumination:	Backlit white
Display:	Rudder Angle; range 0-40°; scale graduated in 1° increments; full scale deflection 45o
LED Indicators:	Fault Indication = Red (RD); Set-up Mode = Blue (BU)
Loss of Valid Data:	Pointer assumes a vertical upward position Red LED indicator illuminated

ENVIRONMENTAL

IEC 60945 Equipment Category:	Exposed Area
Operating temp:	-25°C to +55°C
Storage temp:	-25°C to +70°C
RoHS:	Compliant
Compass Safe Distance:	Standard: 85 cm Steering: 45 cm

APPROVALS

Conforms with:	BS EN 60945:2002 Inc. corrigendum April 2008 (BSI, 2008), BS EN 61162-1:2016 (BSI, 2016) BS EN 62288:2014 (BSI, 2016) ISO 20673:2007, 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)
Type Approval:	DNV Wheelmark (0098) when installed as part of a Marine Data Rudder Angle Indicator System



All dimensions in mm



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