MARINE·DATA

FEATURES

- **Clear and Easily Read Dial Display**
- **Rate of Turn up to 30°/min**
- **Panel or Bulkhead Mounted**
- **Touch Controls**
- **Local and Remote Dimming Control**
- **Automatic Detection of Previously Lost Data**
- **Digital NMEA 0183**

CERTIFICATIONS

GL Type Approved

COMPASS & HEADING / RATE OF TURN REPEATERS

MD77ROT DIAL RATE OF TURN INDICATOR

SKU F077201

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OVERVIEW

The MD77ROT is a NMEA-based Rate of Turn Indicator, displaying the Rate in degrees per minute. Housed in a robust, compact aluminium enclosure with a touch panel for background and pointer illumination, the MD77ROT is ideal for any vessel.

The MD77ROT provides a clear and easy to read 118 mm diameter analogue dial display graduated in 1 degree per minute rate increments. Rate range: Up to 30 degrees per minute to Port and Starboard.

Compact and rugged, the MD77ROT 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 MD77ROT from Marine Data: flexible in application, easy to install and simple to maintain.

APPLICATIONS

- To display Rate of Turn (ROT) data transmitted from NMEA 0183 compatible marine equipment at a convenient location

ACCESSORIES

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

RELATED PRODUCTS

- MD68ROT - Rate of Turn Indicator (Dial Ø 164 mm)
- MD67ROT - Weatherproof Rate of Turn Indicator (Dial Ø 118 mm)
- MD77ROT120 - Rate of Turn Indicator (Dial Ø 118mm; 0-120°/min)

PHYSICAL
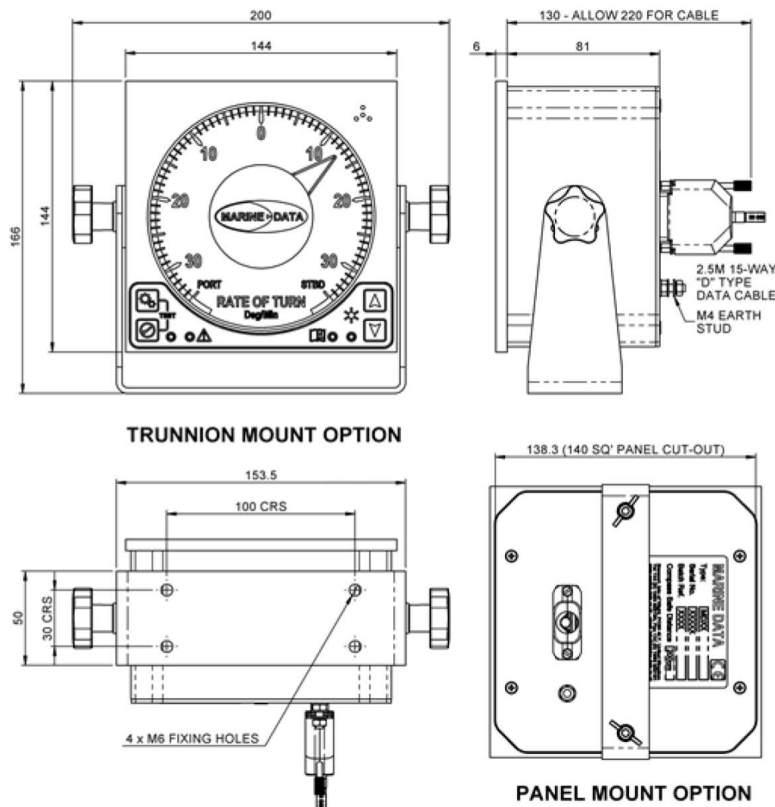
Weight:	1.25 kg (on bracket)
Dimensions:	H 166 mm; W 200 mm; D 87 mm (on bracket) Fascia 144 x 144 mm; dial Ø 118 mm 140 mm square panel cut out
Mounting:	Panel or optional Bulkhead mounted
Connections:	1 x data cable to 15-pin D-sub plug; M4 earth stud
Construction:	Aluminium alloy enclosure, Polycarbonate face
Finish:	RAL9005 Jet Black; fine texture

ELECTRICAL

Power Supply:	24 V dc (18-32 V); 6 W
Data Input:	Digital RS422; NMEA 0183; 4800 / 9600 / 19200 / 38000 Baud; auto-selecting
Data Sentence:	ROT ($--ROT,x.x,A*hh<CR><LF>)
Output:	External Alarm Loop (optional)
Cable:	Supplied with 2.5 m multi-core data cable

OPERATIONAL

Performance:	±0.5°/min accuracy; Alignment rate in excess of 40° per second
Dial Illumination:	Backlit white
Display:	Rate of Turn; range 0-30°/min; scale graduated in 1° per minute rate increments; full scale deflection 35°/min
LED Indicators:	Alarm Fault Indication = Red (RD); Set-up Mode = Blue (BU)
Error Indication:	Loss of Valid Data: Pointer assumes a vertical downward position and illumination flashes (alert condition)

ENVIRONMENTAL

IP rating:	IP54
Operating temp:	-15°C to +55°C
Storage temp:	-25°C to +70°C
RoHS:	Compliant
Compass:	Safe Distance 100 cm

APPROVALS

Conforms with:	IEC60945; IEC61162-1
Type Approval:	Germanischer Lloyd (GL)

All dimensions in mm

TRUNNION MOUNT OPTION

PANEL MOUNT OPTION