PROJECT SPECIFIC PRODUCT RANGE



POWER & DATA DISTRIBUTION / INTERFACES

MD36/6 STEP (S-TYPE) TO NMEA INTERFACE

SKU: F036026

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FEATURES

- **Converts Legacy STEP to Digital NMEA 0183**
- **Allows Legacy Equipment to connect to NMEA Systems**
- **3 Line STEP Input**
- **24-70 V dc STEP Supply, Smoothed or Unsmoothed**
- **Low Power Consumption**
- **Compact and Robust**

OVERVIEW

The MD36/6 is a solid-state Step (S-Type) to Digital Interface. It converts a DC Step (S Type) transmission of a ship's heading from legacy equipment to a modern NMEA 0183 compliant Digital Transmission format. There is an alignment facility on the unit to align the digital output of the MD36/6 to the incoming heading signal. When suitably adjusted the MD36/6 reads the step input heading to within 1/6° and re-transmits an RS422 output following the NMEA (0183) protocol with no errors.

Constructed in a robust die-cast aluminium enclosure and finished in RAL9005 Jet Black fine texture powder coat paint, the MD36/6 is designed to complement existing marine navigation equipment. Supplied for bulkhead mounting as standard, compact and rugged, the MD36/6 offers a compact Step (S-Type) to NMEA Interface solution for locations where available space is limited.

The MD36/6 Step (S-Type) to NMEA Interface from Marine Data, easy to install and simple to maintain.

APPLICATIONS

- Suitable for converting from any STEP (S-Type) transmission format to a digital NMEA 0183 (IEC61162-1) transmission format
- Especially useful for retro-fitting legacy systems with modern equipment requiring a digital transmission of ships heading

RELATED PRODUCTS

- The complete range of Marine Data Heading Repeaters

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:	1.0 kg
Dimensions:	H 222 mm; W 146 mm; D 55 mm
Mounting:	Bulkhead mounted
Connections:	3x M20 Cable Glands; M4 Earth Stud
Construction:	Aluminium alloy enclosure
Finish:	Jet Black RAL9005, fine texture

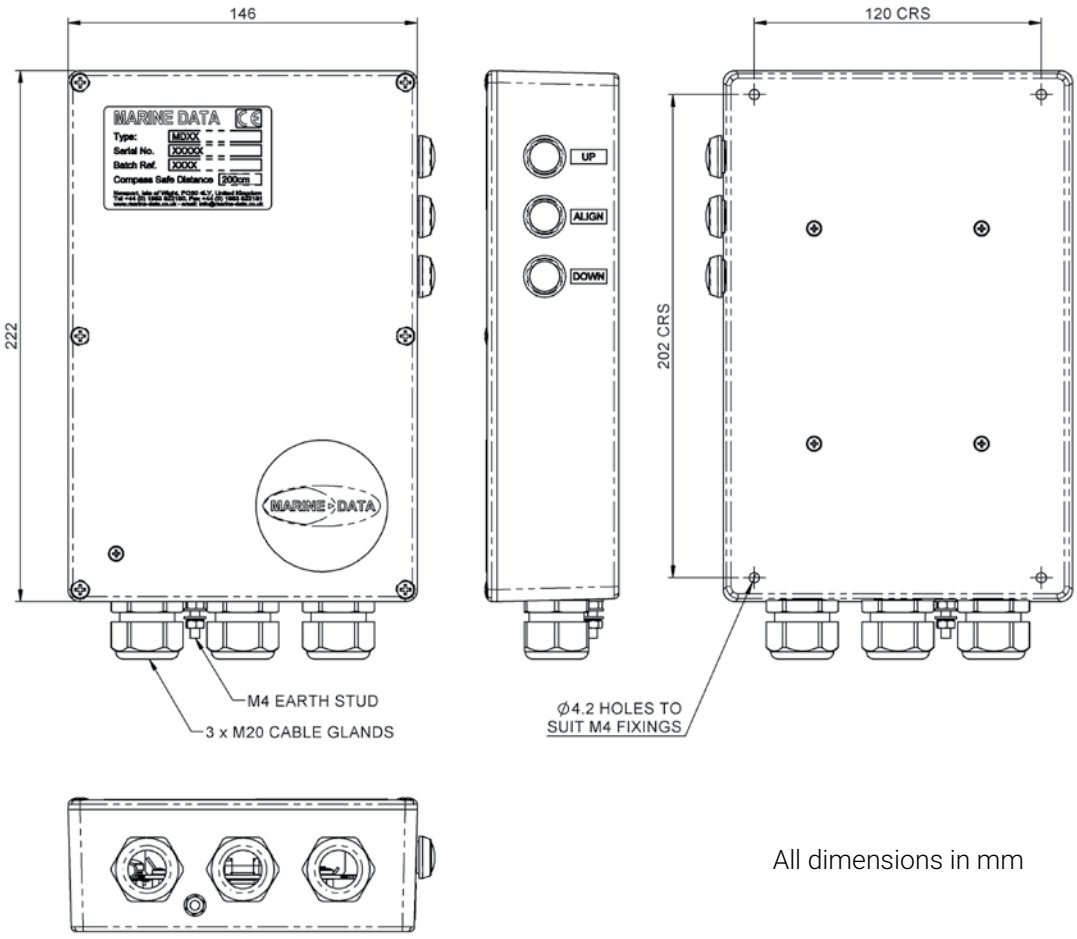
ELECTRICAL	
Power Supply:	24 V dc nominal; 4 W max; (0.12 amps @ 24 V); 18-32 V dc
Data input:	STEP (S-Type) 3 line, common positive or negative 24-70 V dc STEP Supply, smoothed or unsmoothed
Data Output:	NMEA 0183 (IEC 61162-1) $HEHDT,xxx.xx,T*CS<CR><LF> 4800 Baud; 10 messages per second

OPERATIONAL	
Performance:	1/6° accuracy (limit of STEP signal)
MTBF:	>30,000 hours
Error Indication:	Status LEDs on internal PCB Status in NMEA sentence set to 'invalid'

ENVIRONMENTAL	
IP rating:	IP54
Operating temp:	-15°C to +55°C
RoHS:	Compliant
Compass:	Safe Distance 50 cm

APPROVALS	
Conforms with:	IEC 60945; IEC 61162-1

ADDITIONAL	
Option:	Custom paint colour and stainless steel cable glands - Subject to MOQ



All dimensions in mm

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