

POWER & DATA DISTRIBUTION / INTERFACES

MD36/5 SYNCHRO TO NMEA INTERFACE

SKU: F036027

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FEATURES

- **Converts Analogue 3-Phase Synchro to Digital NMEA 0183**
- **Allows legacy equipment to connect to NMEA systems**
- **115 V, 400 Hz Reference Voltage**
- **90 V per phase Synchro**
- **Low Power Consumption**
- **Compact and Robust**

OVERVIEW

The MD36/5 is a solid-state Synchro to Digital Interface. It converts an AC Synchro-transformer based transmission of ships heading from legacy equipment to a modern IEC61162-1 (NMEA 0183) compliant Digital Transmission format.

Constructed in a robust die cast aluminium enclosure and finished in Jet Black (RAL9005) Fine-texture Powder Coat to complement existing marine navigation equipment. Compact and rugged, the MD36/5 offers a compact Synchro to NMEA interface solution for locations where available space is limited and is bulkhead mounted as standard.

The MD36/5 Synchro to NMEA Interface from Marine Data, easy to install and simple to maintain.

APPLICATIONS

- Suitable for converting from a three-phase synchro transmission format to a digital NMEA 0183 (IEC61162-1) transmission format. This is especially useful for retro-fitting legacy systems with modern equipment requiring a digital transmission of ships heading

RELATED PRODUCTS

- MD36/5W - Weatherproof Synchro to NMEA Interface
- The complete range of Marine Data Heading Repeaters

SPECIFICATIONS

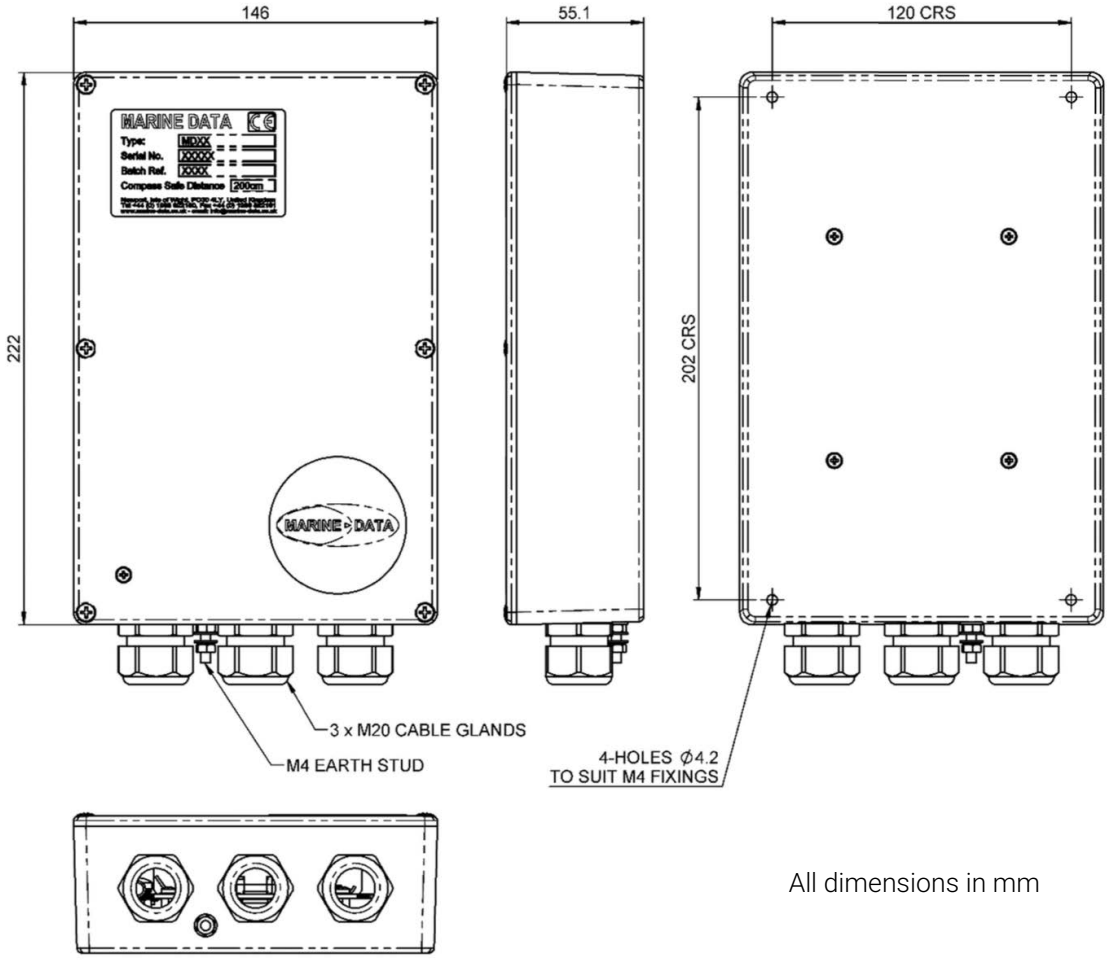
PHYSICAL	
Weight:	1.0 kg
Dimensions:	H 222 mm; W 146 mm; D 55 mm
Mounting:	Bulkhead mounted
Connections:	3x M20 Cable Glands; M4 Earth Stud
Construction:	Aluminium alloy enclosure
Finish:	Jet Black (RAL9005) Fine-texture Powder Coat

ELECTRICAL	
Power Supply:	24 V dc nominal; 4 W max; (0.12 amps @ 24 V); 18-32 V dc
Data input:	Synchro; 115 V Ref @ 400 Hz 90 V l-l signal, 3 phases Ratio 1:1 (1 rev = 360 deg)
Data Output:	NMEA 0183 (IEC 61162-1) $HEHDT,xxx.xx,T*CS<CR><LF> 4800 Baud; 10 messages per second

OPERATIONAL	
Performance:	±0.1° accuracy
MTBF:	30,000 hours
Error Indication:	Status LEDs on internal PCB Status in NMEA sentence set to 'invalid'

ENVIRONMENTAL	
IEC 60945 Equipment Category:	Protected Area
Operating temp:	-15°C to +55°C
RoHS:	Compliant
Compass:	Safe Distance 50 cm

APPROVALS	
Conforms with:	IEC 60945; IEC 61162-1



All dimensions in mm

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