



POWER & DATA DISTRIBUTION / INTERFACES

MD36/5D DUAL CHANNEL SYNCHRO TO NMEA INTERFACE

SKU F036028

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FEATURES

- **IP Converts 2x Analogue 3-Phase Synchro to 2x Digital NMEA 0183**
- **Multiplexer to combine 2 channels of NMEA into 1 combined channel NMEA output**
- **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 MD36/5D is a solid-state Dual Channel Synchro to Digital Interface. It simultaneously converts two channels of ac synchro transformer based transmissions of ships heading from legacy equipment into two channels of modern IEC61162-1 (NMEA 0183) compliant digital transmissions.

Constructed in a robust die cast aluminium enclosure and finished in RAL9005 Jet Black fine texture powder coat paint, the MD36/5D is designed to complement existing marine navigation equipment. Bulkhead mounted as standard. Compact and rugged, the MD36/5D offers a compact Synchro to NMEA interface solution for locations where available space is limited.

The MD36/5D 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

- [MD36/5](#) - Single Channel Synchro to NMEA Interface
- [MD36/5W](#) - Single Channel Weatherproof IPX6 version
- The complete range of Marine Data [Heading Repeaters](#)

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 paint

ELECTRICAL

Power Supply:	24 V dc nominal; 4 W max; (0.12 amps @ 24 V); 18-32 V dc
Data input:	2 Channels of Synchro; 115 V Ref @ 400 Hz 90 V I-I signal, 3 phases Ratio 1:1 (1 rev = 360 deg)
Data Output:	2 Channels of 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

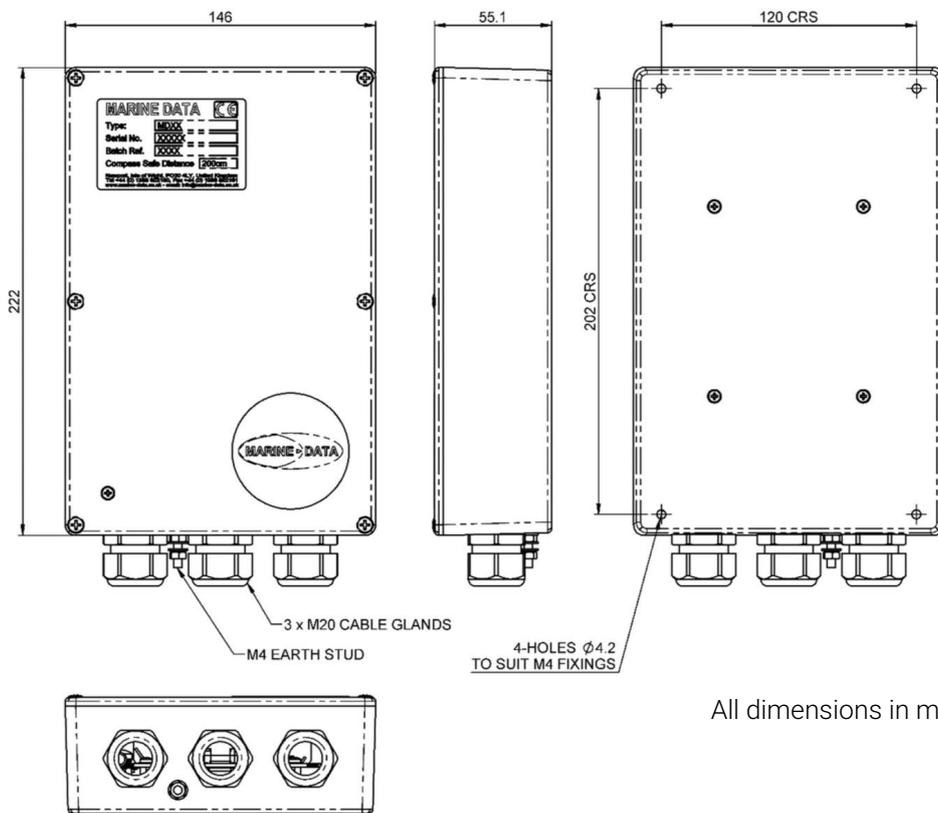
IP rating:	IP54
Operating temp:	-15°C to +55°C
RoHS:	Compliant
Compass:	Safe Distance 50 cm

APPROVALS

Conforms with:	IEC 60945; IEC 61162-1
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ADDITIONAL

- Option:** Custom paint colour and stainless steel cable glands
 - Option:** Enclosure to Customers Application
 - Option:** Alternative Synchro Attitudes and NMEA sentences
 - Option:** Other NMEA sentences available on request
- (Above options subject to MOQ)



All dimensions in mm



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