PROJECT SPECIFIC PRODUCT RANGE



POWER & DATA DISTRIBUTION / INTERFACES

MD34/8/115-90V-400 NMEA TO SYNCHRO INTERFACE

SKU: F034010

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FEATURES

- **Produces a Wide Range of Synchro Ratios from 1:1 to 360:1**
- **NMEA Digital Input; Selectable Baud Rate**
- **115 V ac 400 Hz Supply Input**
- **3 Line Synchro Output**
- **115 V ac Synchro Reference Output**
- **Fanless IP65 Marinised Housing**
- **Variable Input Baud Rate**
- **Built-in Status Display**

OVERVIEW

The MD34/8/15-90V-400 is a solid-state interface designed to convert ships heading information from NMEA 0183 protocol to 400 Hz Synchro format with a reference voltage of 115 V ac and a single voltage of 90 V line to line (L-L).

The interface accepts a NMEA 0183 (IEC61162-1) $xxHDT Heading sentence and provides a 16 VA (nominal) output of 115 V ref, 90 V phase 400 Hz Synchro signal.

The MD34/8/15-90V-400 has a fan-less design; the outside of the case is air-cooled by convection. In this way the unit is maintenance free and able to provide environmental sealing to IP65. The unit is flexible in application, easy to install and simple to maintain.

APPLICATIONS

- Convert ships heading information from digital NMEA 0183 protocol to analogue 400 Hz synchro format

RELATED PRODUCTS

- Transmitting Heading Device (THD) Systems (TMC and EMC)

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

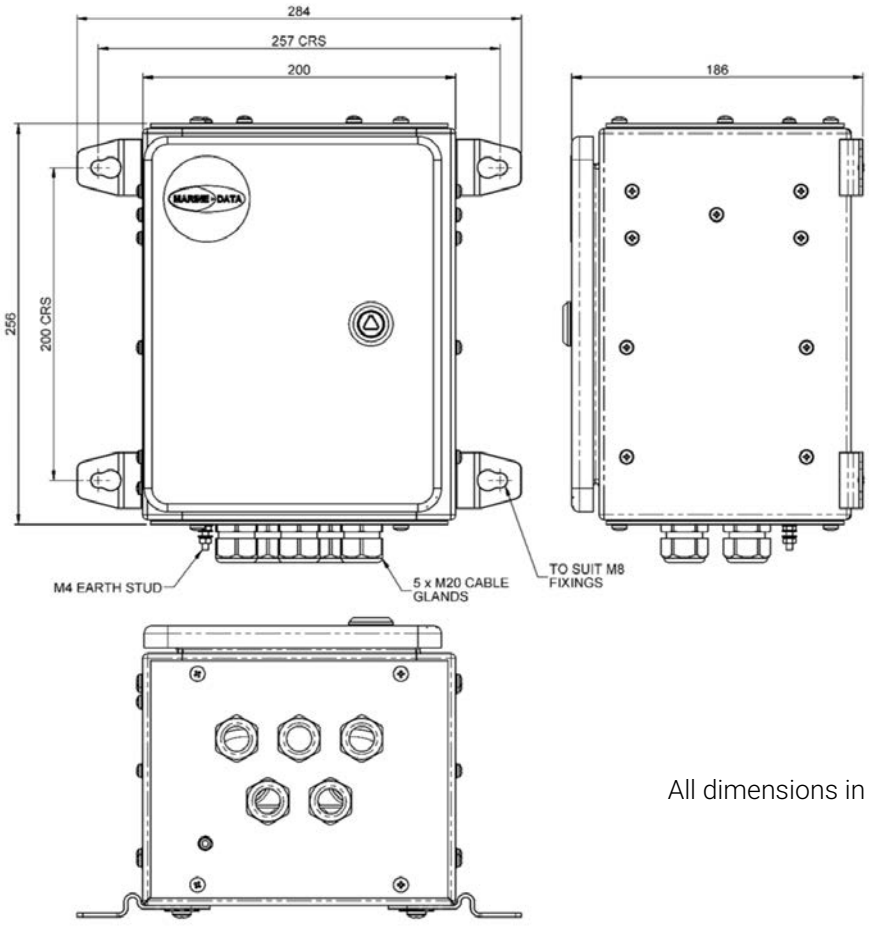
PHYSICAL	
Weight:	5.0 kg
Dimensions:	H 256 mm; W 284 mm; D 186 mm
Mounting:	Bulkhead mounted
Connections:	3 x M20 Cable glands to internal screw terminals; M4 Earth stud
Construction:	Steel enclosure
Finish:	Jet Black RAL9005 fine texture powder coat paint

ELECTRICAL	
Power Supply:	115 V ac 400 Hz (from ship's supply); Nominal power requirement = Output load + 10 watts
Data input:	RS422 NMEA 0183 (IEC61162-1) HDT Sentence; 4800, 9600 or 38400 Baud
Data Output:	Synchro Data Output 115 V ref 90 V phase, 400 Hz, 16 VA nominal total load, 35 VA overload rating, continuous
Data sentence:	$xxHDT Heading sentence

OPERATIONAL	
Performance:	±0.25° (at 25°C); ±0.5° (full load and full operating temperature range)
MTBF:	30,000 hours

ENVIRONMENTAL	
IP rating:	IP65
Operating temp:	-10°C to +55°C
RoHS:	Compliant
Compass:	Safe Distance 200 cm

APPROVALS	
Conforms with:	IEC 61162-1



All dimensions in mm

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