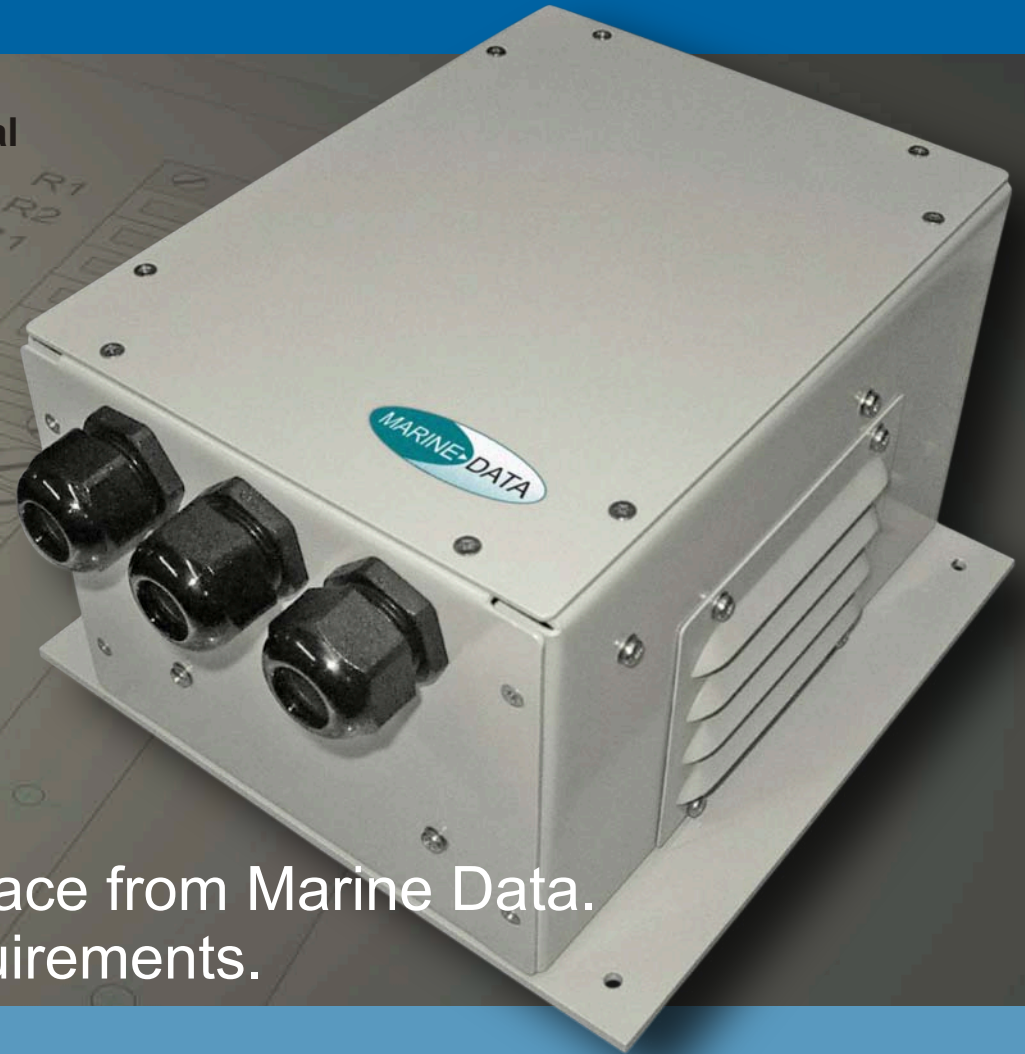


NMEA TO SYNCHRO INTERFACE

MD34/8

- Allows NMEA 0183 angular data to control rotational Synchro devices
- Replaces a legacy Synchro gyro with a NMEA gyro while retaining any legacy synchro devices
- Gear ratio of the NMEA input to the Synchro output is factory configurable as 1:1, 36:1 or 360:1
- Controls up to 4 identical Synchro loads
- Power supply is derived from the vessel's Synchro reference power supply or from an independent power supply
- Solid-state interface
- Rugged, marinised aluminium alloy housing
- High resolution; high accuracy
- Factory configured to your exact requirements



The MD34/8 NMEA to Synchro Interface from Marine Data.
Factory configured to your exact requirements.

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SPECIFICATIONS (with options)

Physical

- Weight: from 2.0 Kg to 4.0 kg (depending on power requirements)
- Dimensions: 200mm overall width; 228mm overall length;
- 124mm overall height
- Mounting: Bulkhead mounted
- Connections: Internal screw terminal connectors for power supplies, data Input and synchro output
- Construction: Aluminium alloy enclosure
- Finish: Stove enamel, black-grey (RAL7021) - see Additional Information

Electrical

- Power Supply (with options):
 - 110V 50/60Hz
 - 115V 400/500Hz (using Synchro Reference as a power supply)
 - 230V 50/60Hz
 - 26V 400/500Hz (using Synchro Reference as a power supply)
 - 24V DC Vessel's supply
- Data Input (with options): Digital RS422 NMEA 0183; 1 start bit; 8 data bits; no parity; 1 stop bit
 - Baud rate: 4800 to 38400
 - Update rate: 3Hz to 50Hz
- Synchro Output (with options):
 - Reference Frequency: 50Hz to 500Hz
 - Reference Voltage: 26V to 115V
 - Phase Voltage: 11.8V to 90V
 - Number of Synchro Loads: From 1 to 4
 - Output Synchro gear ratio 1:1 or 36:1 or 360:1 (single output)
 - Output Synchro gear ratio 1:1 and 36:1 (Coarse / Fine output)

Operational

- Performance: $\pm 0.1^\circ$ to $\pm 2.0^\circ$ accuracy
- Follow-up rate: 10° to 20° per second
- Display: None

Environmental

- Water resistance rating: IP20
- Operating temperature: -10°C to $+70^\circ\text{C}$
- RoHS compliant

Additional Information

- The painted finish can be to individual requirements
- Fitted with PG11 cable glands to suit cable diameters of 5-10mm
- Power supply options are factory configurable to individual requirements; please supply the relevant information for the particular vessel
- The NMEA 0183 data input is factory configurable to individual requirements
- Gear ratios of the synchro outputs are factory configurable:
 - 1:1 means 1° of NMEA angular change gives 1° of synchro rotation
 - 36:1 means 1° of NMEA angular change gives 10° of synchro rotation
 - 360:1 means 1° of NMEA angular change gives 360° of synchro rotation
- The accuracy, the resolution and the follow-up rate depend on the synchro gear ratio



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