



TRANSAS AIS CLASS B M4-B

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The Transas Automatic Identification System (AIS) Class B receiver and transmitter unit is low cost, but high performance product designed specially for fishing vessels, passenger ships, coastguard, leisure and workboats. The compact AIS Class B unit is suitable for a variety of applications within the AIS environment. Certified, well-proven technology ensures users of the reliability and quality which has become the hallmark of Transas in today's fast moving marine industry.

FEATURES

Simple Design Concept

Transas AIS Class B M4-B is a practical single PCB solution optimising the combined application of hardware and software.

Standard NMEA Interface

AIS Class B can be connected to any NMEA compatible chart plotter or suitably configured PC or PDA for graphical display of AIS targets.

Internal GPS Module

AIS Class B includes an integral GPS module to facilitate ease of installation and use.

Safety Related Message

The Safety Related Message button enables the user to transmit a distress alert to all vessels and base stations within range.

Silent Mode

AIS Class B device can be configured to operate in receive only mode with the transmitter disabled.

COMPLIANCE

Designed in compliance with the following standards:

- IEC62287-1
IEC standard, Class B shipborne equipment
- IEC60945 Edn 4.0
IEC standard, environmental requirements

BENEFITS

Transmit your position

Fitting an AIS Class B device ensures you are seen by other AIS equipped vessels.

Coastal Surveillance

AIS and radar can be fused to create effective and efficient coastal tracking, surveillance and safety systems.

Vessel Protection

As part of a suitably configured network, AIS enables owners to be alerted to unauthorized vessel movements.

Port Management

AIS can be used as a highly effective port management tool allowing easy identification, control and direction of vessels.

Compatibility

Also compatible with ECDIS, ECS and RADAR if they support Class B targets.

- ITU-RM.1371-1
Universal AIS Technical Characteristics
- IEC61162-1 Edn. 2.0
IEC standard, digital interfaces part 1
- IEC61108-1 IEC standard, GPS receiver equipment



TECHNICAL DESCRIPTION

Physical

- Dimensions 215 x 150 x 45 mm (L x W x H)
- Weight 685g (M4-B unit only)

Power

- DC (9.6V - 15.6V)
- Average power consumption 4W
- Peak current rating 2A

GPS Receiver (AIS Internal)

16 channel IEC 61108-1 compliant
Electrical Interfaces RS232 38.4kbaud bi-directional
RS422 NMEA 38.4kbaud bi-directional

Connectors

- VHF antenna connector
- GPS antenna connector
- RS232/RS422/Power/External switch

VHF Transceiver

- Transmitter x 1
- Receiver x 2 (One receiver time shared between AIS and DSC)
- Frequency: 156.025 to 162.025 MHz in 25 kHz steps

Output Power

- 33dBm ± 1.5 dB

Channel Bandwidth

- 25kHz

Channel Step

- 25kHz

Modulation Modes

- 25kHz GMSK (AIS, TX and RX)
- 25kHz AFSK (DSC, RX only)

Bit rate

- 9600 b/s ± 50 ppm (GMSK)
- 1200 b/s ± 30 ppm (FSK)

RX Sensitivity

- Less than -107dBm at 20% PER
- Co-channel 10dB
- Adjacent channel 70dB
- IMD 65dB
- Blocking 84dB

Environmental

- Water resistant to IPx7
- Operating temperature: -25°C to +55°C
- Tested to IEC 60945 'Protected' category

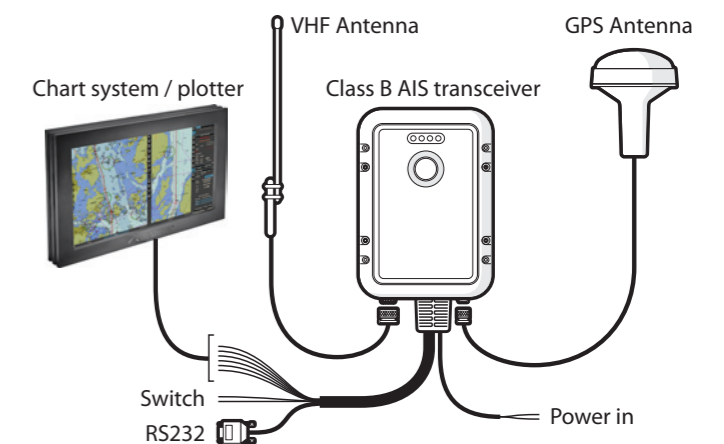
Indicators

- Power
- TX timeout
- error
- status

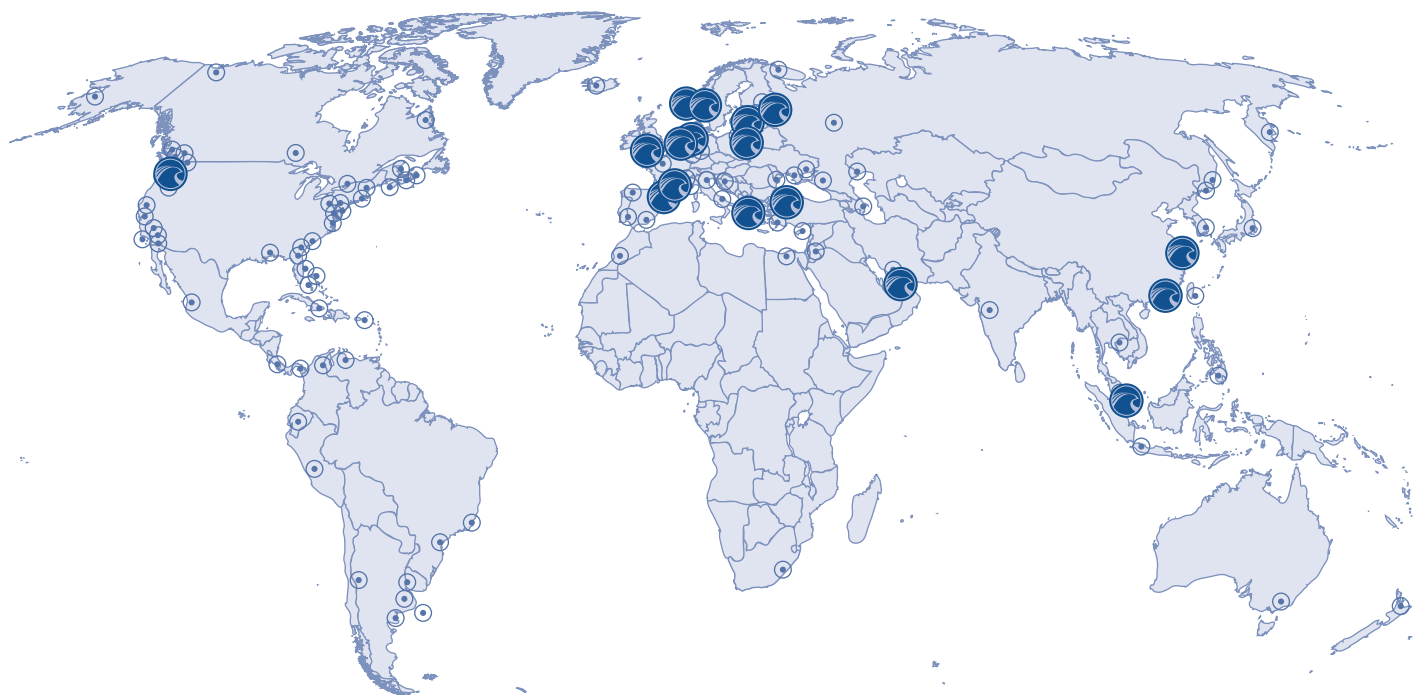
Operator Controls

Single switch configurable to enable either silent mode or safety related message functions

CONFIGURATION



TRANSAS WORLDWIDE DISTRIBUTORS AND SERVICE NETWORK



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