

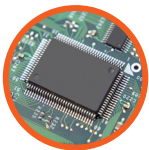
em-trak B212

HIGH PERFORMANCE
MARITIME
PRODUCTS

AIS Class B 12 Watt Transceiver

A waterproof Class B with configurable 2W or 12W transmit power for enhanced range.

The B212 provides full AIS Class B functionality with sophisticated configurable transmit power of 2W or 12W to improve range. Enclosed in an IPx7 ruggedized enclosure the B212 offers the ultimate professional AIS device.



Performance

The B212 can be configured to transmit at either the standard 2 W or 12 W transmission power to ensure maximum AIS broadcast range.



Easy to install

The em-trak B212 has NMEA0183 connection and proAIS configuration tool for easy installation and set up.



Rugged Waterproof Enclosure

Fire retardant, waterproof, marine grade plastic enclosure guarantees longevity and performance in even the harshest of environments.

The em-trak B212 offers professional standard AIS transmission performance at a price you can afford.

em-trak 

High Performance Maritime Products

www.em-trak.com



Features and Specifications

- 2 Watt / 12 Watt Transceiver
- High quality, engineered to last
- NMEA0183 interface
- Marine grade plastic enclosure

Physical

- Dimensions: 215mm x 185mm x 67mm (transceiver)
- Weight: 2.4kg (including packaging)

Power

- 12V DC (9.6-15.6V)
- Power consumption: 4W average, peak current 5A

Data Interfaces

- NMEA0183 38.4k baud output
- RS232 38.4k baud bi-directional x2

Connectors

- VHF Antenna connector – SO-239
- GPS Antenna connector - TNC
- RS232 data connectors – Female 9 Way D-type

VHF Transceiver

- Transmitter x 1
- Receiver x 2 (one time shared between AIS/DSC)
- Frequency: 156.025 to 162.025 MHz in 25KHz steps
- Output power 33dBm \pm 1.5 dB / 41dBm \pm 1.5 dB
- Channel bandwidth: 25KHz
- Bit rate 9600 b/s GMSK & 1200 b/s FSK
- RX sensitivity <-107 dBm at 20% packet error rate

Supplied with:

- GPS antenna
- CD with proAIS configuration software
- User manual and quick start guide
- Mounting screws
- Attached 1m power and data cables

Compliant with the following standards (in 2W mode):

- IEC62287-1 (IEC standard, Class B shipbourne equipment)
- IEC60945 Edn 4.0 (IEC standard, environmental requirements)
- 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)

When operating in 12W mode the B212 will require radio approval and certification from the relevant local authorities.

Product Order Information

- Product Name: em-trak B212
- Product Code: 410-0005

The AIS B212 is an aid to navigation and must not be relied upon to provide accurate navigation information. AIS is not a replacement for vigilant human lookouts and other navigation aids such as Radar. The performance of the B212 may be seriously impaired if not installed as instructed in the user manual, or due to other factors such as weather and or nearby transmitting devices. Compatibility with other systems may vary and is reliant on the third party systems recognizing the standard outputs from the B212.

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