

## **Installation:**

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The AIS-2-NMEA Receiver is not waterproof and should be mounted in a dry location. The unit can be fixed by the 4 mounting holes in the end flanges.

It will require connection to a marine VHF antenna via the BNC socket at the rear or with a BNC to VHF adaptor socket.

Operation is from the boats DC supply of 12-24 Volts.

**RED Positive +**  
**BLUE Negative –**

The output from the unit is NMEA 0183 and is designed to be connected to an AIS compatible Chart Plotter.

**YELLOW NMEA Output Positive +**  
**GREEN NMEA Output Negative –**

The output Baud rate is set to 38,400, if you wish to change this to 4800 baud, disconnect the power, unscrew the two screws to release the front cover and move the jumper located in the middle to the 4800 position.

## **Operation:**

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On applying power the Green LED will light and the two Channel Red LEDs will come on continuously for approximately 10 seconds then extinguish. If you are within range of vessels transmitting AIS data the two channels Red LEDs will flash intermittently indicating reception of an AIS message which will be sent out on the NMEA connection to the Chart Plotter.

## **Limited Warranty:**

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Comar Systems Ltd warrants this product to be free from defects in materials and manufacture for one year from the date of purchase. Comar Systems Ltd will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts and labour. The customer is, however, responsible for any transportation costs incurred in returning the unit to Comar Systems Ltd.

This warranty does not cover failures due to abuse, misuse, accident or unauthorized alteration or repairs.

The above does not effect the statutory rights of the consumer.

*Note: Every effort has been made to ensure that all information contained in this manual is accurate at the time of going to press. However AIS is a new technology and the legislation is subject to change. We therefore cannot take any responsibility for the content of this manual and advise that you take normal steps to ensure that the information is at its most current when you are reading this manual.*

## **Product Support**

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## Fault finding:

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### No power light is displayed

- Check the power supply and that the unit is connected correctly to a 12 or 24 volt DC supply
- Check the polarity of the supply is correct (red +ve and blue is -ve).

### Channel A and Channel B lights do not flash

- Check that a VHF antenna is fitted and correctly connected.
- Check that the antenna is correctly positioned – i.e. at a suitable location to visibly 'see' vessels.

### Channel A and Channel B lights flash but no data is received

If the red channel lights flash then data is being received from nearby vessels.

- Check the NMEA connections to the PC or NMEA device.
- Check on the PC application or device that the correct port is assigned and the correct baud rate is setup. The correct baud rate is 38400.

### I can receive ships on my display but no names are shown.

- Remember that the names of ships as well as other static information is only sent every 6 minutes or when requested by another station.

## Specification:

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Dimensions Overall:	120 x 86 x 37
Power:	9-30 VDC
Current:	50mA @ 12VDC
Output:	NMEA 0183
Message type:	VDM
Baud Rate:	38400 (4800 by internal link)
Receiver:	Dual Channel Parallel
Frequency:	161.975 and 162.025MHz
Sensitivity:	-112dBm
Connections:	Power/Data 1m 4 way cable
Antenna:	BNC 50 Ohm

# *Installation and Quick Reference Guide*

## AIS-2-NMEA Receiver



