

A051T AIS Class B/CS Transponder |Marite Solutions



Enhance your safety and visibility on the water with our Class B/CS AIS transceiver with WiFi & NMEA 0183/2000 - perfect for recreational boats, yachts, and fishing vessels.

- Low-cost anti-collision and monitoring system
- Receives and processes all AIS message types
- Automatically transmits position, speed, and heading to other vessels
- Silent mode for power saving, privacy, or security
- Supports WiFi connections for up to four devices
- Connects to NMEA 2000 networks for AIS and position data sharing
- Multiplexing additional NMEA 0183 input
- Built-in NMEA 0183 to NMEA 2000 Converter

Description

Searching for a must have and essential piece of kit? If yes, then look no further! The A051T Class B/CS AIS Transponder is the ideal solution to transmit your ship's information, including; location, name, vessel dimensions, speed etc..The ideal transponder to fulfil your local Class B/CS legal requirements, as well as for peace of mind and project tracking. This is the ideal, compact AIS Transponder. In addition to transmitting your AIS information to local boats and receiving stations, the A051T will also convert incoming AIS messages (In the same fashion as our AIS Receivers).The A051T will receive and decode your GPS location as well as the AIS messages from local ships. Combining the AIS and GPS data, you will be able to view which other boats and ships are around and your position compared to them and the coastline.

You can view your AIS and GPS data on:

- Chart plotters via NMEA 0183 or NMEA 2000 backbone
- Your laptop, computer or tablet through USB OTG (Android or Linux compatible)
- Up to 4 WiFi enabled devices

Features

- Transmission of vessels own position, speed and heading etc. to other vessels and receiving stations within VHF range

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- Receives and processes GPS and all AIS message types
- A method of monitoring the position, speed and heading of other AIS vessels within VHF range
- The ability to plot the progress and changes in heading/speed of other AIS vessels within VHF range on a PC, chart plotter or wireless device.
- AIS Transmitter 'Standby' facility to conserve power, or for privacy.
- Low-cost anti-collision / monitoring system
- Complies with all necessary standards under the European R & TTE article
- LED lights give real-time feedback. LEDs flash each time a message is successfully transmitted or received, so you can have confidence the A051T is transmitting your information.
- In addition, you have the option to read the actual 'raw' AIS messages received, using our free application OceanCom.

Technical Summary

- AIS transmission rate: 2 Watts, CS/TDMA protocol
- AIS receiving range: 40nm
- VHF connector port: Standard SO239/UHF Female connector. Connects to an external VHF/AIS antenna (requires standard PL-259/UHF Male Plug)
- GPS connector: TNC female bulkhead connector for connection to an external GPS antenna. The A051T includes a built in GPS module and only requires a GPS antenna to be connected
- POWER connector: 12 pin POWER/NMEA connector
- POWER supply range: 12V – 35V
- NMEA 0183 output ports: For connection to chart plotters and other NMEA0183 compatible equipment as desired.
- USB: Type B USB for easy connecting to your laptop or PC for configuration and data viewing. (Please note, initial configuration may only be performed using a Windows operating system.)
- WiFi Output: The NMEA 0183 sentences are also transmitted through WiFi. It support Ad-hoc and Station mode WiFi (with and without a router). No configuration required for Ad-hoc WiFi.
- NMEA 2000 Output: Connects to NMEA 2000 networks for AIS and position data sharing.
- LED lights confirm incoming and outgoing AIS messages, GPS, WiFi and Power

Perfect for use in all Class B/CS boats (under 300 tonnes etc.): sailing boats or yachts, small fishing boats, etc..

Easy to install and use

Step 1 – Decide where to put your transponder on your boat. A key advantage of this Class B/CS Transceiver is that we've encased it in aluminium – to minimize interference from other equipment. This opens up many more places you can install the A051T, compared to most other transponders.

Step 2 – Choose your power source. The A051T Class B/CS Transponder can be powered by a power supply ranging from 12V to 24V. This covers most power sources used on boats, and is a

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distinct advantage over transponders that are powered only by a 12V power supply.

Step 3 – What do you want to see?

The Class B Transponder will of course broadcast your location – but in addition it also receives AIS signals from other ships in your area and receives your GPS location.

Your A051T transponder has input ports where you simply connect your aerials.

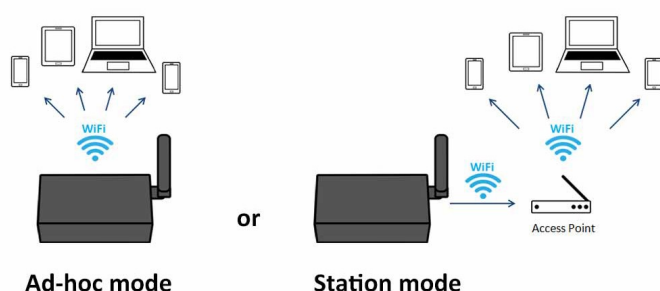
You will need to install two aerials:

- A VHF antenna – to collect and transmit the AIS data. (If you want to use the same VHF aerial as your radio communication, simply use a splitter before connection.)
- A GPS antenna – used to pinpoint your accurate location

Step 4 – Transmitting your location (ON/OFF)As this is a Class B/CS transponder, you can decide when (or if) you want to transmit your location, using STANDBY mode in the Configuration software.

Step 5 –Which screen/s will you connect your A051T transponder to:NMEA 0183 Chart plotter via NMEA 0183 output Windows or Linux laptop (using the USB input or WiFi)Up to 4 wireless devices (phones, tablets or laptops) in Ad-hoc mode WiFi Wireless devices through your Access point/router in Station mode WiFi NMEA 2000 chart plotter through NMEA 2000 backbone

- NMEA 0183 Chart plotter via NMEA 0183 output
- Windows or Linux laptop (using the USB input or WiFi)
- Up to 4 wireless devices (phones, tablets or laptops) in Ad-hoc mode WiFi
- Wireless devices through your Access point/router in Station mode WiFi
- NMEA 2000 chart plotter through NMEA 2000 backbone



What is included

- 1 x A051T AIS Transponder Class B/CS 2W
- 1x WiFi antenna
- 1 x 12 pin POWER/NMEA cable
- 1 x USB cable

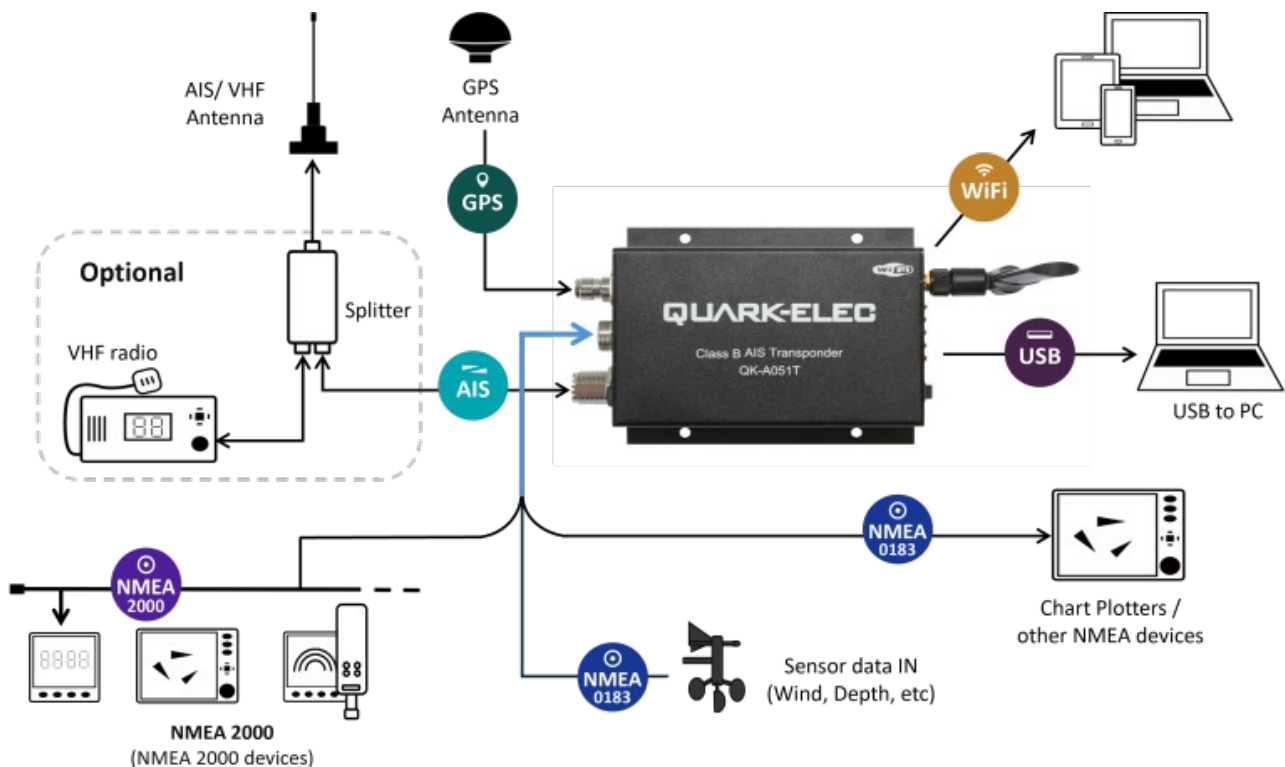
Optional (available to add to your order)

AS14 Waterproof GPS Antenna

AS12 AIS/VHF Fibreglass Antenna

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A051T Class B/CS Connections



IMPORTANT: Class B/CS Transponder

AIS transponders themselves don't need to be registered, however, each requires a unique and official 9-digit Maritime Mobile Service Identity (MMSI) number assigned to the vessel and its owner. To obtain an MMSI number, you should contact the relevant authority in your country. Different countries have different authorities responsible for this service.

Please Note: The A051T Transceiver will allow you input an MMSI number only once.

Please make sure you input the correct MMSI number before clicking 'config', as changes are not permitted after confirming.