



TRANSPONDERS

T300B-S CLASS B SOTDMA AIS TRANSPONDER WITH INTERNAL SPLITTER

SKU: 001-1119

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FEATURES

- **SOTDMA Transmission Standard**
- **Built-in Antenna Splitter to enable use of VHF Radio and AIS simultaneously**
- **NMEA 0183 and NMEA 2000 compatible**
- **Compact Aluminium Housing**
- **Ideal AIS Receiver for Commercial Boats and Leisure Craft**
- **Automatic Transmission of Vessel's own position, speed and heading to other vessels within VHF range**
- **A method of monitoring the position, speed and heading of other AIS vessels within VHF range**
- **Ability to plot the progress, changes in heading and speed of other AIS vessels on a PC or Chart Plotter**
- **Transmitter OFF facility to conserve power, or for covert use**

OVERVIEW

The T300B-S is a compact and rugged SOTDMA AIS Transponder with built-in Antenna Splitter, designed for the demands of the small commercial boat, fishing boat and leisure markets. It meets the Class 'B' (SOTDMA) standard, allowing vessels that are not required to fit Class 'A' units to voluntarily fit an AIS Transponder.

When connected to an external VHF antenna and a GPS antenna (not supplied), the T300B-S will transmit its own vessel position and data and receive information from other AIS vessels, shore stations and navigational aids within VHF range.

The built-in Antenna Splitter allows the unit to share a single VHF antenna with a VHF radiotelephone, eliminating the need for a second VHF antenna on the vessel and reducing installation time and cost. Additionally, the unit has an FM radio output for monitoring public service FM radio broadcasts.

The unit is initially programmed by the user with the supplied software over a USB interface. The T300B-S is compatible with a range of computer based navigation programs and chart plotters that accept AIS data sentences over a NMEA 0183 or NMEA 2000 connection.

APPLICATIONS

- Commercial boat, fishing boat and leisure markets.
- Meets the Class 'B' SOTDMA international standard

RELATED PRODUCTS

[T300B](#) - Class B SOTDMA AIS Transponder

[AS300](#) - AIS / VHF Antenna Splitter

[AV100](#) - Stainless Steel Whip Antenna

[AV300](#) - Fibreglass VHF Antenna

[AV400](#) - Commercial Antenna for AIS

[AG100](#) - GPS Antenna

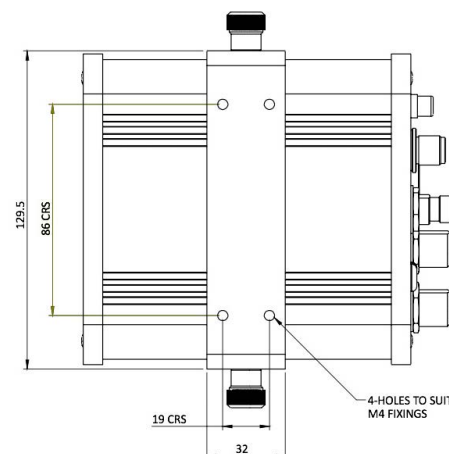
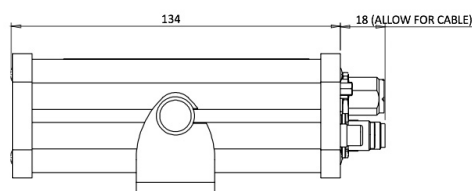
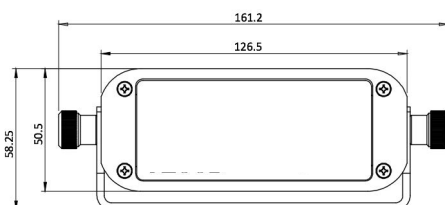
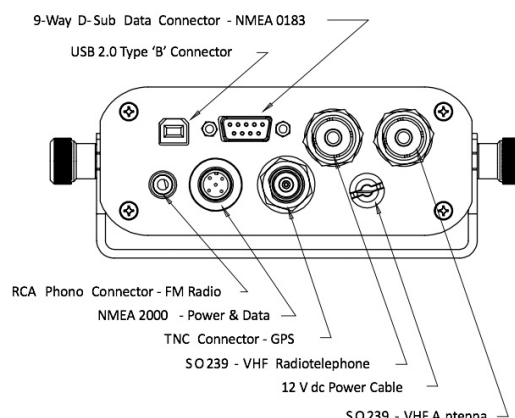
PHYSICAL	
Weight:	600 g
Dimensions:	L 135 x W 126 x H 50 mm (excl. connectors & bracket)
Mounting:	To flat surface with supplied Trunnion Mount
Connections:	Power: 2-core captive cable, 1 m Antenna: SO239 UHF Connector VHF R/T: SO239 UHF Connector GPS Antenna: TNC Connector FM Radio Out: RCA Phono Connector Data In/Out: 9-pin D-sub Connector NMEA 2000: 5-pin; 2x Data; 2x 12 V dc Power; 1x Shield USB: USB 2.0 Type B Connector
Construction:	Extruded Aluminium Alloy, ABS
Finish:	Black Fine-texture Powder-coat, ABS

OPERATIONAL	
VHF Transceiver:	Transmitter x1; Receiver x2; one receiver time shared between AIS & DSC
Transmission Power:	5 W (SOTDMA)
VHF Antenna Impedance:	50 Ω
Frequency Range:	156.025 – 162.025 MHz in 25 kHz steps
Channel Bandwidth:	25 kHz
Channel Steps:	25 kHz
Display:	Discrete Indicator LEDs
Data Received:	<ul style="list-style-type: none"> • Class 'A' and Class 'B' AIS Transmissions • Safety messages • Aids to Navigation
Data Transmitted:	<ul style="list-style-type: none"> • Name of Vessel • MMSI Number • Position • Speed (SOG) • Course (COG) • Type of Vessel • Call Sign • Heading • Vessel Dimensions
GPS Antenna Impedance:	50 Ω
Indicators:	On, TX, RX, Status, TX Timeout, Error, TX Off

ELECTRICAL	
Power Supply:	12 V dc (9.6 - 15.6 V dc); 250 mA; 3 W nominal
Peak Current Rating:	2.5 A
Data Output:	NMEA 0183: 38,400 and 4,800 Baud

ENVIRONMENTAL	
IP Rating:	IP40
Operating temp:	-15°C to +55°C
Compass:	Safe Distance 50 cm

ADDITIONAL	
Supplied:	T300B-S Transponder; trunnion bracket; power, data and programming cables
Required:	GPS Receive Antenna AG100 for AIS re-transmission of Vessel Position
Required:	AIS VHF Antenna



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