

ExNC 101 Class B AIS

The **ExNC 101 Class B AIS** transponder is designed to increase safety at sea by means of showing your own position, speed, course and call sign automatically to all AIS participants within your VHF range. All existing AIS messages (i.e. class A AIS transponder, AtoNs, Base Stations, SAR, etc.) are received and class B messages are transmitted via the VHF aerial.

The **ExNC 101 Class B AIS** transponder is a compact, rigid black box device which works autonomously, no action by the user is needed. Having standard interfaces the mariner is enabled to provide an electronic chart system to display all vessels equipped with AIS.

Designed and built according to IEC 62287-1; ITU-R M.1371-2; IEC 61162-1/-2; IEC 60945; IEC 61108 standards.

We care for quality!



Technical Specifications

Physical Dimensions

Housing

L: 110 mm, W: 110 mm, H: 35 mm
Weight: ~ 275 g

PCB

L: 100 mm, W: 100 mm, H: 20 mm
Weight: ~ 135 g

Power

Power supply: 10 – 30 Volt DC (isolated)
Pow. consum cont.: 1,8 W – 0,15 A @ 12 V
Pow. consum aver.: 2,5 W – 0,15 A @ 12 V

Connectors

GPS antenna: SMB
VHF antenna: SMA
Output / Input: D-SUB 15 pin socket

GPS Receiver

16 channel
WAAS – EGNOS interoperability
DGPS correction

Receiver

Frequency: 156.025 – 162.025 MHz
Channel spacing: 25 KHz
Receivers: 2, one shared AIS/DSC
Sensitivity: < - 107 dBm
Demodulation: GMSK/FSK
Data rate: 9600 bps

VHF Transmitter

Output power: 1 W – 2 W adjustable
Modulation: GMSK
VDL access: CSTDMA

ExNC

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I/O Interface

RS 232: 38.400 bps
RS 422/NMEA: 4.800 bps

Operating temperature

- 25° Celsius to + 55° Celsius

Optional interfaces

Bluetooth
Quiet mode switch
Safety alert button

Optional Features

Quiet mode

This special feature stops your **ExNC 101** from transmitting and you will receive AIS data only to display on your interface.

Safety alert button

Allows you to inform other AIS participants about an incident automatically by pushing the alert button.

Warning

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Please contact us for more information about the **ExNC 101** class B AIS transponder and our other products.