

# 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

Entwicklungs- und Vertriebsges.m.b.H

Urbanstrasse 28 , A-9554 St.Urban, Austria

Mail: [info@exnc.at](mailto:info@exnc.at)

Tel. + 43 676 320 81 51 ♦ Fax. + 43 463 8900 99 15

FN 275418b ♦ UID: ATU 62385644

### 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.