



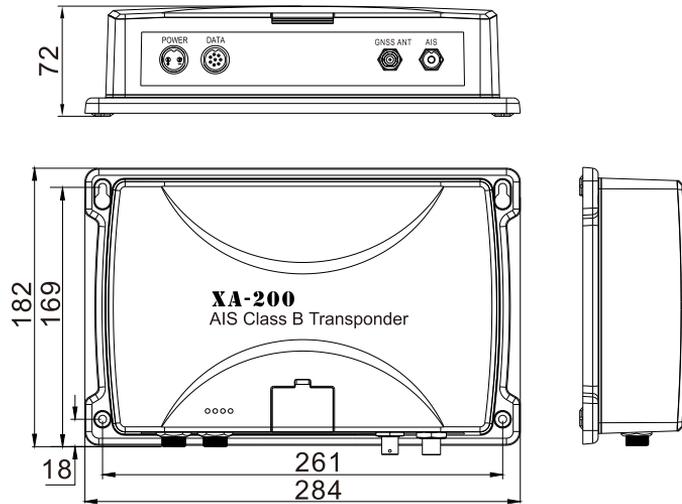
## **CLASS B AIS TRANSPONDER**

**XA-200**

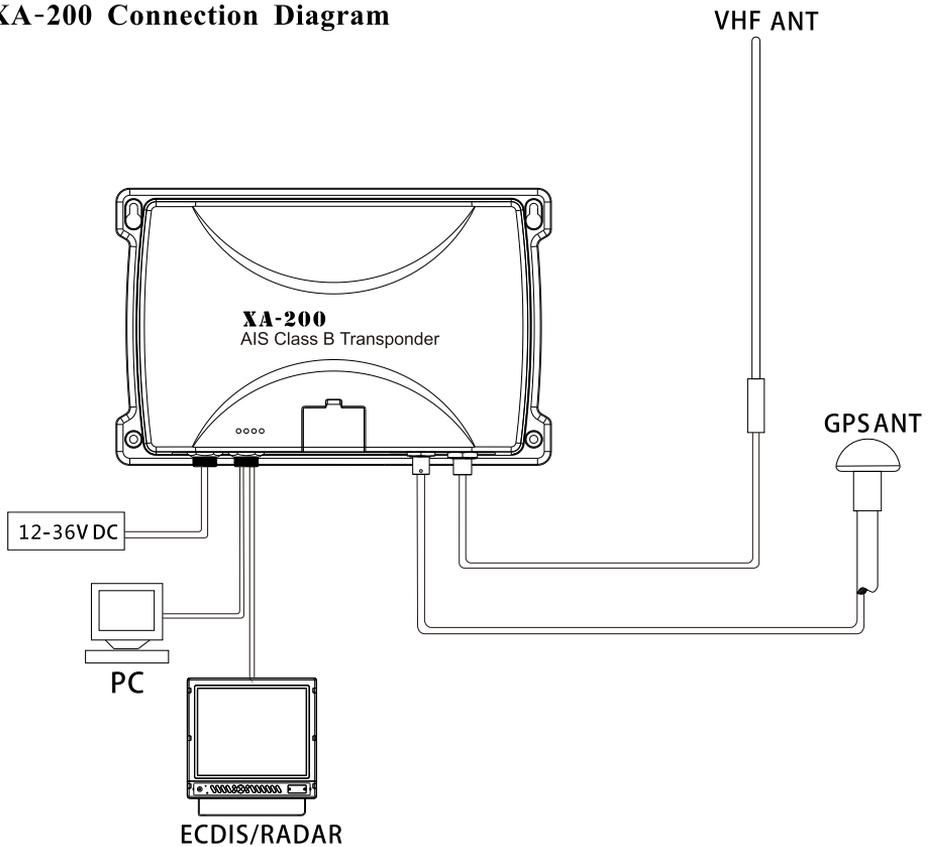
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# **User Manual**

## 1. XA-200 Dimension Diagram

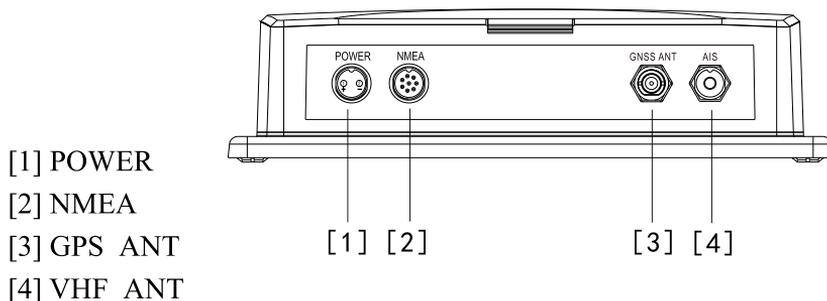


## 2. XA-200 Connection Diagram



### 3. Interface Definition

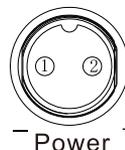
The whole external interface definitions are as follows:



The power connector has two core air power outlets, with which red one is for the positive power supply input, black or blue one is for the negative power supply input. Connect the two lines to 12-36V DC power of the vessel and please pay more attention to the polarity (Air outlet pin 1 is positive and pin 2 is negative.)

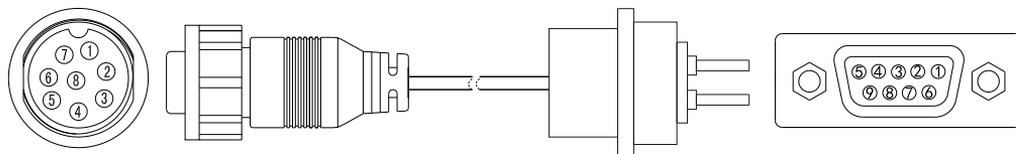
The power interface definitions are shown as right side:

- [1] Positive pole of the power input
- [2] Negative pole of the power input

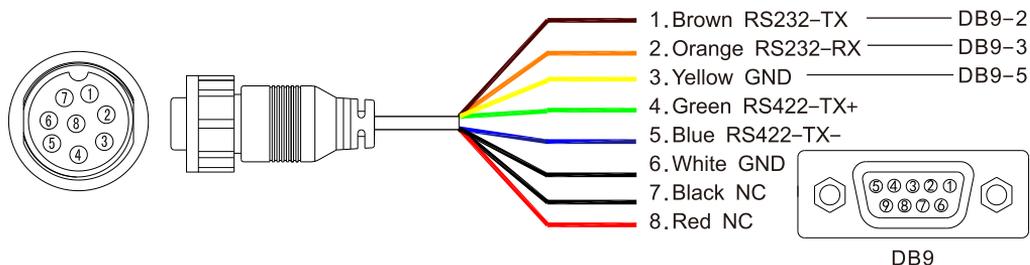


**Note:** The power supply input range is 12V-36V and should not exceed the voltage range; otherwise it will damage the device.

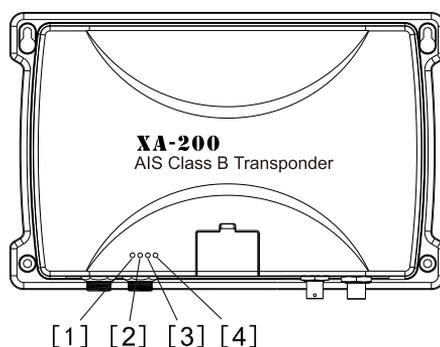
- The NMEA data interface connected with computer serial port, please refers to below diagram:



- The definition of NMEA data interface is shown as follows:



## 4. Indicator Light Definition



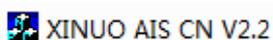
- [1] Operation indicator: Will keep red when the power is on, but will flash once the GPS antenna is connected to the system.)
- [2] ERROR light: keep off (reserved)
- [3] TX light: yellow (signal light for sending)
- [4] RX light: yellow (signal light for receiving and flash after the GPS antenna is connected to the system)

## 5. Software Operation

- (1) Download the software for PC from below link.

[http://www.xinuo.com/xinuo\\_xiamen/XA-200.rar](http://www.xinuo.com/xinuo_xiamen/XA-200.rar)

- (2) Unzip the file and double click to open up.



- (3) Set the value of serial port and baud rate.



Serial port: Select the serial port which connect to the DB9.

Baud rate: Set as 38400.

- (4) Connection

Click  , if the key is changed to  , connection is successful.

**Note:** If the connection fail, there will be a message to remind you. Please check whether all cables were connected correctly. If you cannot find the cause of failure, please connect the local dealer.

(5) Set static parameters after connection

- MMSI

Move cursor to the MMSI, then input MMSI number (9 digits), e.g. 413000111.

- Call sign

Move cursor to the Call Sign, then input (less than or equal to 7 characters, just capital letter and standard sign), e.g. XINUO.

- Ship Name

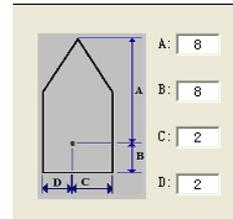
Move cursor to the Ship Name, then input (less than or equal to 20 characters, just capital letter and standard sign), e.g. SHANGHAI.

- Ship type

Click 'Ship Type', the dropdown list will be shown as below. Then use mouse wheel to browse different types. When one ship type is selected, e.g. 'Fishing', its corresponding number will be displayed behind the 'Ship Type'.

- Device location Information

According to device installation location and ship size, input Distance A,B,C,D, e.g.8,8,2,2. The distance range of A or B is 0-511m while C or D is 0-63m.



(6) Configure device

[1] After confirmation the correctness of static parameters , click  to save static parameters.

[2] If Writing fails, system will pop up below message. Please check whether the static parameters you had set match the requirement.



[3] If Writing succeed, the system will pop up below tip.



(7) Read configuration

Click  , and the system will pop up below tip.

Then you can check the data.



## 6. XA-200 SPECIFICATIONS

### APPLICABLE STANDARDS

IEC 62287-1 Ed. 2, 2010	IEC 61108-1 Ed. 1, 2003
IEC 61162-1 Ed. 3, 2007	IEC 60945 Ed. 4, 2002
ITU-R M.1371-4, 2010	

### VHF TRANSCEIVER

Frequency Range	156.025 MHz ~ 162.025 MHz
Channel Bandwidth	25 KHz
Modulation	GMSK / FM
Data Rate	9600 bps
Number of AIS transmitter	1
Number of AIS Receiver	2
AIS Channel 1	CH 87 (161.975 MHz)
AIS Channel 2	CH 88 (162.025 Mhz)
Tx Power Output	2W/5W
Rx Sensivity	< -107 dBm @ 20% PER

### ENVIRONMENTAL

Operating Temperature	-15°C ~ 55°C
Waterproofing	IPX6

### POWER SUPPLY

Supply Voltage	12-36V DC
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### LED INDICATION

RX LED	AIS signal receive
TX LED	AIS signal transmit

**CONNECTION INTERFACE**

GPS Antenna Connector    BNC

VHF Antenna Connector    SL-259 (Female)

NMEA0183 (RS-422)    IEC 61162-1/IEC 61162-2,  
Baud rate 38,400 (default), programmable,  
input/output at same baud rate.

RS-232    Baud rate 115,200 (default), programmable



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