

TRANSAS M-3 AIS TRANSPONDER CLASS A

COMPLETE SOLUTION FOR DEEPSEA AND INLAND WATERWAYS

TRANSAS
SETS THE STANDARD

TRANSAS M-3 AIS TRANSPONDER CLASS A

ONE UNIT WORKS FOR ALL

Transas M-3 AIS Transponder is a complete Class-A AIS product fully IMO-compliant for SOLAS vessels and compliant with relevant EC-regulations for River Information System (RIS) and vessels operating on Inland Waterways.

Well-proven technology ensures reliability and quality and was selected by number of leading commercial shipping and naval customers worldwide.



Key features and benefits

- Standard AIS functionality
- High quality, low maintenance "one unit" AIS Transponder with built in Minimum Keyboard Display (MKD)
- Long range tracking capabilities
- Display of AIS messages from aids to navigation (ATON)
- Safety Related Messages (SRM) and Short Message Service support
- Pilot plug integrated in display unit
- Three modes of operation:
  - autonomous and continuous mode for operation in all the regions
  - assigned mode for operation in an area subject to a competent authority
  - a polling or control mode where the data transfer occurs on response to interrogation of vessels or competent authorities
- Integration with external (D)GPS receiver, gyro compass, speed log, ECDIS/ECS and radars
- Input and output communication ports for integrated bridge systems
- Channel management capability (regional AIS frequencies)
- Easy upgrade
- 1W output power option for hazardous cargo handling
- AIS Class B "carrier sense" messages support
- Bracket or flush mounting

Capabilities of ship borne AIS Equipment

- Transas M-3 AIS automatically provides the following information to appropriately equipped shore stations, other ships and aircraft and receives it automatically from similarly equipped ships:
  - static data (IMO number, call sign and name, length and beam, type of ship, location of position fixed antenna onboard the ship)
  - dynamic data (ship position with accuracy and integrity status, UTC time, course over ground (COG), speed over ground (SOG), heading, navigational status, RAIM, rate-of-turn (ROT))
  - voyage related data (ship's draught, hazardous cargo type, destination and estimated time of arrival (ETA))
  - safety related messages
  - international functional messages (meteorological and hydrological data, dangerous cargo indication, fairway closed, tidal window, extended ship static and voyage related data, number of persons onboard, pseudo-AIS targets)
- Transas M-3 AIS monitors and tracks ships
- Transas M-3 AIS exchanges data with shore-based facilities

Advanced Functionality

Developed by the world-leading manufacturer of marine software and equipment, Transas M-3 AIS Transponder brings additional benefits to its users, when interfaced with other high-tech Transas products.

Interfaced with Transas Navi-Sailor ECDIS / ECS it provides the following capabilities:

- Display of AIS targets on the screen
- Full target information
- Sending and receiving messages and target information
- Fast search of targets by name, IMO number, MMSI, and call sign; highlighting of the selected target on the electronic chart screen

Technical Characteristics

(Specifications subject to change without notice)

Physical

- Dimensions: 138 x 210 x 105 mm (D x W x H)
- Weight: 1.4 kg

Power

- Input: 12 to 24V DC
- Power Consumption for 12V: 900mA (4.7A peak)
- Power Consumption for 24V: 500mA (2.3A peak)

GPS Receiver (AIS Internal)

- IEC 61108-1 compliant

Connectors

- VHF Antenna connector - SO-239 (UHF)
- GPS Antenna connector - TNC
- RS232 – 9 way D type
- IEC61162 interfaces & alarm relay via 50 way D-type and optional junction box
- Power connector, four pin circular TBC
- NMEA2000 connector, five pin circular TBC

User interface

- 240 x 128 LED backlit LCD display
- Rotary encoder for selection and entry
- Two softkeys & two menu keys
- Alarm buzzer

Compliance

- IEC61993-2

IEC standard, Class A shipborne equipment

- IEC60945 Ed. 4.0 'Protected' category

IEC standard, environmental requirements

- ITU-RM.1371-3

Universal AIS Technical Characteristics

- IEC61162-1/2 Ed. 2.0

IEC standards, digital interfaces

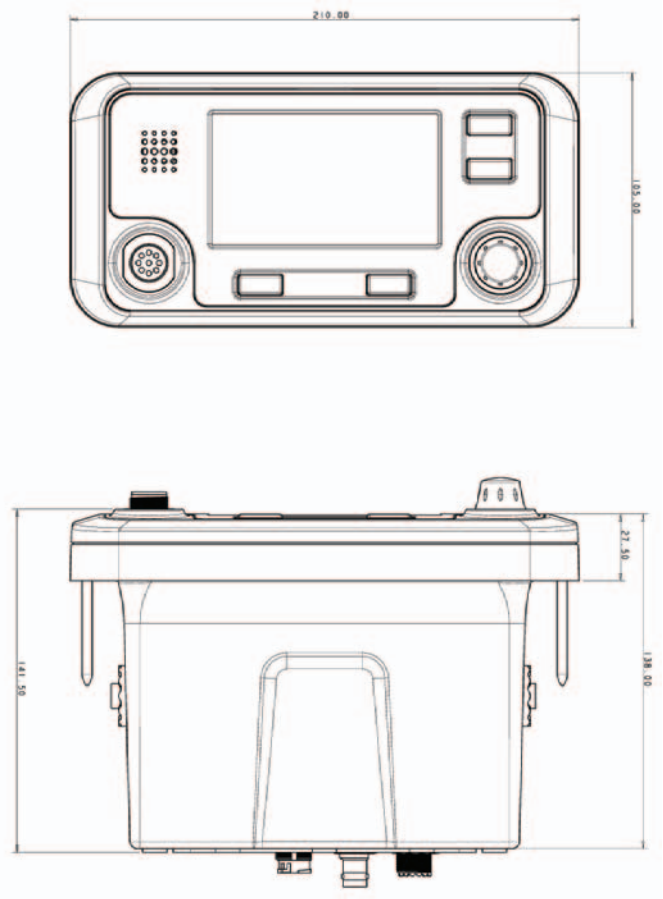
- IEC61108-1

IEC standard, GPS receiver equipment

- NMEA2000

Standard for marine networking

- CCNR Vessel tracking and tracing standard for Inland

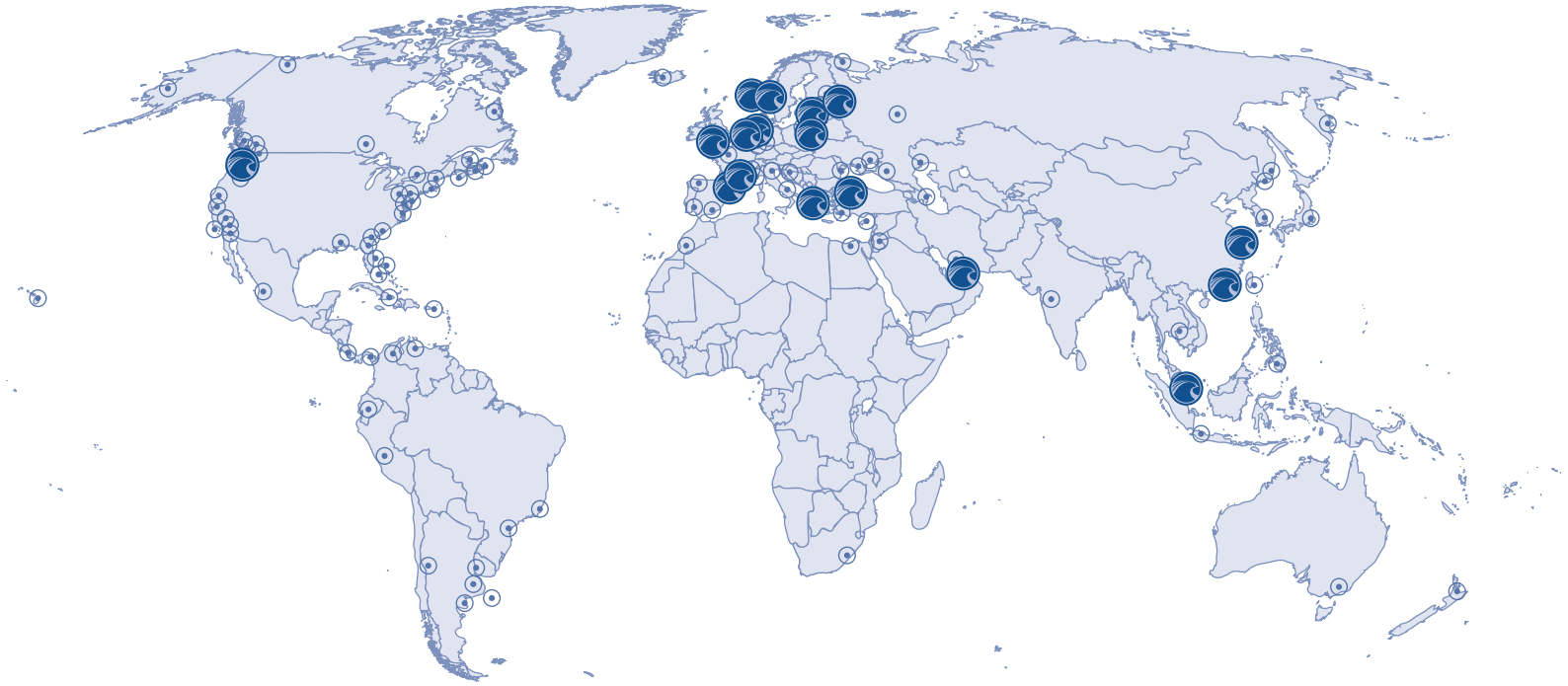


Service and Support

Transas 24/7 Service Network is strategically spread worldwide to deliver fast and efficient maintenance, support, warranty and upgrade services. If you require a **quick AIS Class A delivery or service**, please contact Transas local office or our Service team at *service@transas.com* or +46 771 460 100

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