

em-trak 



# AIS

PERFORMANCE | CONNECTIVITY | RELIABILITY | INSTALLATION

## PRODUCT GUIDE

## ABOUT EM-TRAK

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### THE WORLD'S BEST AIS TRANSCEIVERS

For over twenty years our transceivers have been the favoured choice of professional, commercial and leisure vessel operators across the world due to their proven performance, reliability and seamless interoperability with other navigation and display systems.

As a wholly owned subsidiary of the UK based SRT Marine Systems group we benefit from over twenty years of accumulated experience, the most advanced core technologies, robust product engineering and quality manufacturing. This is directly reflected in the quality and performance of our products and the result are products that set industry performance and quality horizons.

Our products are available direct, or through a global network of trained and certified dealers. No matter where you buy your em-trak transceiver each and every product is backed by our global gold standard warranty and 24/7 expert technical support.

Our focus at em-trak Marine Electronics has always been to ensure mariners have the very best AIS performance, and that is why we are the world's leading supplier of AIS transceivers. We understand the challenges faced by mariners in the real world, with every one of our products conceived and designed from scratch for continuous use in the most extreme marine environments.

## WHY EM-TRAK AIS IS THE BEST

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### Core technology that delivers exceptional performance

Core technology is what defines the performance you can expect from your AIS transceiver. By that we mean its ability to receive and process all and any AIS transmissions in real time without error/loss at maximum range. Our core technology is multi-generational having been evolved over the last twenty years by our parent group, SRT Marine Systems. Inside every em-trak transceiver is a highly sophisticated fully integrated AIS transceiver engine which uses the most advanced electronic architecture that elegantly integrates the very best components with powerful firmware. The result is the delivery of exceptional performance and reliability, plus ultra-low power consumption within a miniature form factor to save weight.

### Product Engineering

Thirty years of accumulated experience of developing communication products for professionals has provided us with a unique insight and understanding of the challenges faced by products in the real world.

Every em-trak product has been conceived and designed from scratch for continuous use in the most extreme marine environments. This drives unseen product features such as exceptionally robust UV impervious enclosures, use of marine grade stainless steel connectors and internal screws, robust water proof sealing, vibration and shock resistance and high-grade electronic components designed to operate at extreme temperatures.

### Manufacturing

All our products are manufactured in one of the world's most advanced electronic production facilities located in Europe.

Our processes conform to the highest standards with every component tracked and every product going through multiple rigorous testing gateways during its manufacture. Prior to leaving the factory, each product undergoes an extensive automated test that checks over 1,000 parameters, as well as a water proof test. We are obsessed with manufacturing quality.

### Connectivity

There are many types of chartplotters and navigation systems fitted on boats; both brand new and others over ten years old.

Additionally, there is an increasing selection of navigation apps for watches, phones, tablets and PC's, all of which are constantly being updated with new functionality. Our products give you the freedom to connect with any of these – now and in the future – so you can swap between them all if you want. To this end, all em-trak transceivers have dual NMEA0183 and NMEA2000 data outputs and a selection of interfaces, wired and wireless (WiFi & Bluetooth).

### Functionality

em-trak is all about AIS performance and reliability. No gimmicks, just the very best performance and quality.

Our AIS transceivers will support all the AIS related functionality available in your chosen display as explained in the connectivity section above. Thus giving you the freedom to access the vast array of functionality these systems offer if provided with the best quality AIS data. Our focus is therefore on functionality related to AIS performance. em-trak transceivers will receive and decode (extract all the information contained within a transmission) all AIS transmissions from any transceiver type – these include Class A, Class B, SART, MOB, AtoN and Base Stations. This means you have access to live weather and sea information as well as the ability to receive and send text messages.

All em-trak transceivers have the ability to be put into silent mode where you stop transmitting for a time, but continue to receive.

## THE KEY FEATURES

### PERFORMANCE

Core technology continuously developed and proven over many years guarantees you the very best AIS receive and transmit and GPS performance, coupled with the lowest power consumption of any comparable AIS transceiver.

### RELIABILITY

Quality engineered and manufactured with the best components to provide years of continuous, maintenance free operation in even the most extreme environments - impervious and protected against the long-term effects of water, damp, shock, vibration and extreme cold and heat.

### CONNECTIVITY

Guaranteed connectivity to any chartplotter and PC/Phone/Tablet/Watch and navigation app. This ensures you are not limited to any display device or navigation application now or in the future and can maximise AIS related functionality such as weather, MOB, anti-collision, anchor safety, vessel tracking and more.

### CERTIFICATION

em-trak transceivers are rigorously tested and certified for global regulatory compliance. This includes FCC, USCG, Canada and EU test and certification.



### WARRANTY & SUPPORT

em-trak transceivers are designed and engineered for a life time of reliable operation in even the most extreme environments. This is supported by our best in class global warranty program with 24/7 customer support.

## OUR CUSTOMERS



SOLAS



INLAND WATERWAY



WORK BOATS



COMMERCIAL FISHING



SAILING



RECREATIONAL



TENDER & JET SKIS



EMERGENCY SERVICES

## A200 SERIES | Class A

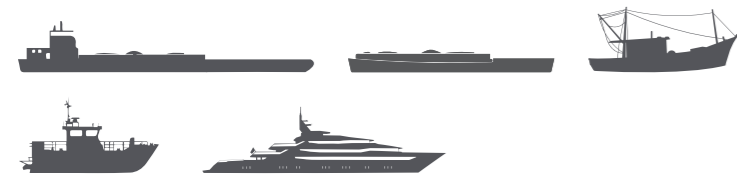
Product code: 425-0012

The A200 is a SOLAS and Inland Waterway Certified AIS Class A transceiver compliant with all national and international (IMO) commercial vessel regulations. As a single integrated unit with high definition colour display and IPx7 weather and water proofing, the A200 is easy to configure, install, operate and connect to all bridge systems. A200 incorporates a range of enhanced functionality, which includes vessel display filters, colour ENC, MOB and SART alerts.

### Key features

- | IMO-SOLAS & EU Inland Waterway Certified
- | Waterproof & Ruggedized
- | Full Colour Display With Night Mode & C-MAP ENC
- | Extensive AIS Functionality
- | Plug & Play Connectivity (WiFi)
- | NMEA0183 & 2000

### Suitable for



TRANSMIT & RECEIVE



12W/50



WIFI



NMEA0183 & 2000

## B400 SERIES | Class B

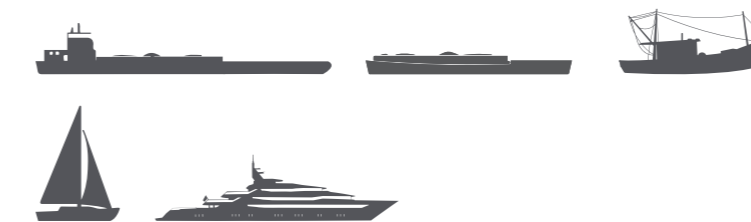
Product code: 427-0003

The B400 is a certified high powered, priority transmission, Class B AIS transceiver. As a single integrated unit with high definition colour display and IPx7 weather and water proofing, the B400 can be permanently installed in any external or internal location and is easy to configure, install, operate and connect to your existing navigation displays. B400 incorporates a range of enhanced functionality which includes vessel display filters, colour ENC (C-MAP), MOB and SART alerts.

### Key features

- | Certified Class B AIS Transceiver – High Transmit Power (5W SOTDMA)
- | Waterproof & Ruggedized
- | Full Colour Display With Night Mode & C-MAP ENC
- | Extensive AIS functionality
- | Plug & Play Connectivity (WiFi)
- | NMEA0183 & 2000

### Suitable for



TRANSMIT & RECEIVE



5W/50



WIFI



NMEA0183 & 2000

## B200 SERIES | Class B

The B200 is a high transmit power (5W & 12W) priority AIS Class B with internal emergency battery power back-up that enables continuous operation for up to 12 hours and emergency transmit only operation for up to 120 hours, providing critical safety in the event of vessel power loss. Waterproof and ruggedized to operate continuously and reliably for years in the most extreme marine environments; combined with WiFi and Bluetooth functionality for quick and easy connection to any display system or navigation app.

### Key features

- | Certified Class B AIS Transceiver - High Transmit Power
- | Waterproof & Ruggedized - IPx6 & IPx7
- | Internal 120hr Back-up Battery
- | Plug & Play Connectivity (WiFi & Bluetooth)
- | NMEA0183 & 2000

### Suitable for



BLUETOOTH



WIFI



BATTERY



NMEA0183 & 2000

## B200 SERIES | The full range



B200



B212

TRANSMIT POWER	5W	12W
WiFi	✓	✓
BLUETOOTH	✓	✓
USB	✓	✓
NMEA0183 & 2000	✓	✓
PRODUCT CODE	429-0007	429-0009

## B900 SERIES | Class B

The B900 series are a range of standard and high transmit power (2W CSTDMA and 5W SOTDMA) AIS Class B transceivers. Small and lightweight, they deliver the very best AIS receive and transmit performance so you see more AIS information and targets at maximum range – all achieved with the least power consumption. With built-in intelligent connectivity, integrated next generation GPS and the unique FLEXI-FIX™ bracket system, safe and secure installation could not be easier.

### Key features

- | Certified AIS Class B - 2W CSTDMA / 5W SOTDMA
- | Integrated Next Generation GPS Receiver & Antenna
- | Waterproof & Ruggedized
- | Small & Lightweight
- | Ultra Low Power Consumption
- | NMEA0183 & 2000
- | FLEXI-FIT™ Bracket System
- | Ultimate Connectivity - WiFi, Bluetooth & USB Options

### Suitable for



SPLITTER



BLUETOOTH



WIFI



GPS



NMEA0183 & 2000

## B900 SERIES | The full range



B921



B922



B923



B924



B951



B952



B953



B954

	B921	B922	B923	B924	B951	B952	B953	B954
WATTAGE	2W	2W	2W	2W	5W	5W	5W	5W
WiFi	-	✓	-	✓	-	✓	-	✓
BLUETOOTH	-	✓	-	✓	-	✓	-	✓
VHF ANTENNA SPLITTER	-	-	✓	✓	-	-	✓	✓
INTERNAL GPS RECEIVER & ANTENNA	✓	✓	✓	✓	✓	✓	✓	✓
NMEA0183 & 2000	✓	✓	✓	✓	✓	✓	✓	✓
PRODUCT CODE	430-0001	430-0003	430-0005	430-0007	430-0009	430-0011	430-0013	430-0015

# I100 SERIES | AIS Transceiver

Product code: 417-0001

The I100 Identifier is a fully integrated Transceiver. All VHF & GPS antennas, along with all electronics and batteries are integrated within a security sealed, IPx8 waterproof ruggedized shell. I100 operates from its own rechargeable battery which gives up to 5 days of continuous operation between charges. The Identifier is supplied as a complete kit with vessel mounting bracket and mains rapid charging dock.

## Key features

- | Small & Lightweight
- | Easy To Use & Install
- | Internal 5 Days Rechargeable Battery
- | IPx8 Ruggedized

## Suitable for



# BT100 SERIES | AIS Fishing Buoy Tracker

Product code: 418-0069

BUOY-Tracker is a purpose designed and certified AIS transponder for marking and locating buoys. It enables you to precisely track, locate and protect your buoys and gear using your existing onboard AIS equipment by transmitting a special AIS message, which is displayed as a buoy icon on all navigation displays. BUOY-Tracker is ruggedized for continuous commercial use and powered by its own internal battery, which is easily recharged using a charging dock, and will operate continuously for 5 days between charges.

## Key features

- | Certified AIS Type 1 AtoN
- | Small & Lightweight
- | Easy To Use & Install
- | Internal 5 days Rechargeable Battery
- | IPx8 Ruggedized
- | Simple To Install On Any Buoy

## Suitable for



# SART100 SERIES | AIS Search & Rescue Transponder

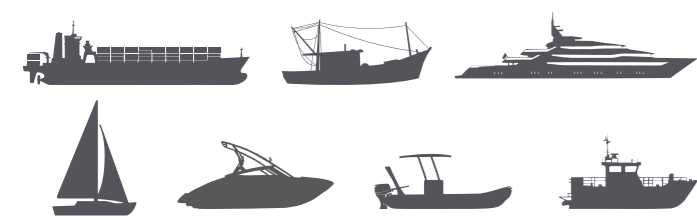
Product code: 409-0018

The SART100 is a IMO-SOLAS certified AIS Search & Rescue Transponder. Engineered for complete reliability, SART100 can be stored for years and when needed instantly activated to transmit an emergency transmission, which all AIS equipped vessels and aircraft will receive and pin-point your exact location. SART100 is ruggedized and supplied with its own grab bag and quick release vessel bracket.

## Key features

- | IMO-SOLAS Certified & Approved AIS SART
- | Easy To Use In Emergency
- | Ruggedized
- | Weather & Waterproof To IPx8 Rating
- | Complete Kit Inclusive Of Quick Release Mounting Bracket And Grab Bag

## Suitable for



TRANSMIT



WATERPROOF



BATTERY



GPS

## Notes

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## Dealer Info



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