

SOLAS &amp; INLAND WATERWAY CERTIFIED

# A200 CLASS A | Transceiver



## DESCRIPTION

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 IPx6 and IPx7 weather and waterproofing, 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.

## FEATURES

- | IMO SOLAS certified AIS Class A
- | EU Inland Waterway certified ruggedized and impervious to extreme environments - water (IPx6, IPx7), damp, shock, vibration and temperatures
- | High performance latest generation GPS
- | Suitable internal or permanent external installation
- | Robust ergonomic button and rotary-knob user interfaces with configurable multi-lingual menu options
- | Integrated high definition colour display with night mode
- | ENC chart (C-Map) with configurable AIS target overlay
- | Silent mode - AIS transmissions are stopped, all AIS messages continue to be received
- | Integrated WiFi
- | Pilot plug cable and junction box accessory options



TRANSMIT &amp; RECEIVE



12W/50



WIFI



WATERPROOF



NMEA 0183 &amp; 2000

## PHYSICAL & ENVIRONMENTAL SPECIFICATION

Size (H x W x D)	152 x 165 x 95mm
Weight	1.1kg
Operating temperature	-25°C to +55°C
Storage temperature	-25°C to +70°C
Ingress protection	IPx6 and IPx7

## ELECTRICAL SPECIFICATION

Supply voltage	12V or 24V DC
Supply voltage range	9.6V - 31.2V DC
Average current (at 12V)	520mA
Peak current	6A
Average power consumption (at 12V)	6.2W
Galvanic isolation	NMEA 0183, NMEA 2000, power supply, VHF antenna port

## CONNECTORS

VHF antenna	SO-239
GNSS	TNC
Power	2 way circular multipole
NMEA 0183/silent mode/blue sign	14 way circular multipole
NMEA 0183/alarm relay	18 way circular multipole
NMEA 2000	5 way Micro-C connector

## DATA INTERFACES

NMEA 0183	3 x input ports 3 x bi-directional ports
NMEA 2000	NMEA 2000 Ed 3.101, LEN=1
WiFi	IEEE 802.11 (a/b/g), client mode and access point mode supported. (5 connections in access point mode)

## STANDARDS COMPLIANCE

AIS standards	IEC 61993-2 Ed. 3
Product safety standards	EN60950-1 2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013
Environmental standards	IEC 60945 Ed. 4
Serial data interface standards	IEC 61162-1 Ed 5.0 IEC 61162-2 Ed 1.0
NMEA 2000	NMEA 2000 Ed 3.101
GNSS performance standards	IEC 61108-1 Ed 2.0 IEC 61108-02 Ed 1.0

## GNSS

Systems supported	GPS, GLONASS, BeiDou, Galileo (two of any combination, three including GPS, Galileo)
Channels	72
Internal/external antenna	External only
Time to first fix from cold start	26s

## VHF TRANSCEIVER

VDL access scheme	SOTDMA
Operating frequency	156.025MHz - 162.025MHz
Channel bandwidth	25kHz
Receivers/transmitters	3 x receivers, 1 x transmitter
AIS receiver sensitivity (20% PER)	-111dBm
AIS transmitter power	12W (+41dBm)

## USER INTERFACE

Screen	5" 800 x 480 full colour LCD
Buttons	Rotary encoder for selection and entry, 4 menu keys and 4 direction keys
SD card interface	Micro SD card interface for logging and chart cards (not available from em-trak)

## GNSS ANTENNA

Size	85 x 70mm
Weight	470g
Ingress protection	IPx6 and IPx7
Mounting	1 inch 14 TPI pole mount required
GNSS systems supported	GPS, GLONASS, Galileo, BeiDou

## IN THE BOX

1 x AIS transceiver	1 x Power cable
1 x Mounting bracket & fixings pack	1 x 14 Way data cable
1 x Product manual and document pack	1 x 18 Way data cable

## WARRANTY

With em-trak you can buy with confidence. If you are unhappy with your new product for any reason, within two days of receipt and subject to the product and packaging being complete and undamaged, you may return it to us for a full refund. We are sorry, but we cannot accept the return of any product if you have not advised us in writing within 48 hours of receiving your em-trak product, or if it has been used and/or damaged or if any of the package is incomplete. All em-trak products benefit from our three year global warranty. In the unlikely event of a problem, please contact our Customer Support department (24/7) at support@em-trak.com and one of our experts will work with you to resolve your issue or arrange the repair or replacement of your em-trak product. The warranty is invalidated if the product has been incorrectly used, damaged or tampered.

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A200 CLASS A | AIS TRANSCEIVER  
INSTALLATION GUIDE

