

SOLAS & 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 & RECEIVE



12W/50



WIFI



WATERPROOF



NMEA 0183 & 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

