

# AIS CARBON IDENTIFIER

## AIS Vessel tracking device

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The AIS Carbon Identifier is the latest Class B AIS transponder.

In the same way as for a "regular" Class B AIS it must be programmed with information about the ship: MMSI number, Call sign, name of the ship/boat, vessel type and its mounting location on board.

The Carbon Identifier is suitable in applications where you would like to be seen but do not need to see other ships/boats/vessels.

The Carbon Identifier is running on battery and comes with a desktop charger and a mounting bracket.

When the Carbon identifier is fully charged the battery will last approx. 4-5 days (depending on the outside temperature and the preprogrammed update rate).

The Carbon Identifier has a built in VHF and GPS antenna which makes the unit very easy to use and "install" on the boat. Just charge the unit, program it and then dock in it the bracket that is fitted on your boat and you are good to go.

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## KEY FEATURES

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- Class B AIS transponder
- Built-in VHF antenna
- Built-in GPS antenna
- Battery powered
- Mounting bracket with ID function

# TECHNICAL FEATURES

## GPS receiver (AIS internal)

- IEC 61108-1 Ed. 2.0 compliant 50 channel receiver
- WAAS / EGNOS enabled for improved position accuracy

## User interface

- Status LED
- SOS button with configurable messaging

## Data interfaces

- Single TTL level serial interface for configuration
- Batch configuration can be performed at manufacture on request

## Connectors

- Charge and configuration contacts are built into the base of the Identifier

## VHF transceiver

- Transmitter x 1
- Receiver x 1
- Frequency: 156.025 to 162.025 MHz in 25kHz steps
- Output power: 1W EIRP
- Channel bandwidth: 25KHz
- Channel step: 25KHz
- Modulation modes: 25KHz GMSK (AIS, transmit only)
- Bit rate: 9600 b/s (GMSK) and 1200 b/s (FSK)
- Receiver sensitivity: <-107dBm (carrier sense only)

## Environmental

- IEC 60945 'Exposed' category
- Waterproof to IPx6 and IPx7
- Operating temperature: -15°C to +55°C

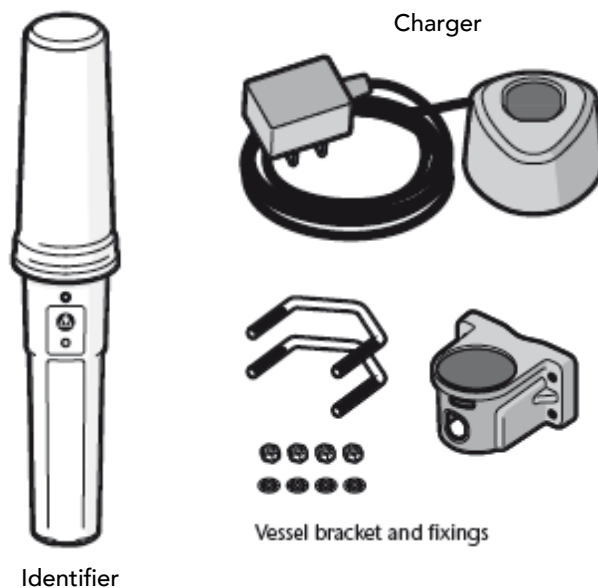
## Physical

- Dimensions: 350mm x 63mm max. (H x D)
- Weight: 250g (Identifier unit only)
- Mounting bracket min / max pole diameter: 25mm to 55mm

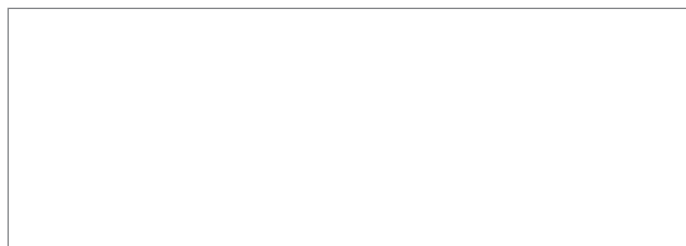
## Power

- Built in 2100mAh Lithium-Ion battery pack
- Up to 5 days operating time (depending on configured reporting rate)
- Charge time: 5 hours
- Charging dock supplied with universal input AC adapter

## What's In The Box



The Identifier has been carefully developed with technology to operate in a Carrier Sense ('CS') manner within the AIS system as envisaged by the International Maritime Organisation defined AIS system. It effectively behaves exactly like a Class B in regard to managing the AIS slot map, therefore ensuring the integrity of the AIS system. However, the Identifier does not conform to any of the specific existing IEC AIS standards and therefore does not carry any international approvals. The Identifier will require local approval by the relevant authorities. True Heading will provide all necessary technical support to assist in this process, and justify the integrity of the Identifier within the AIS system.



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