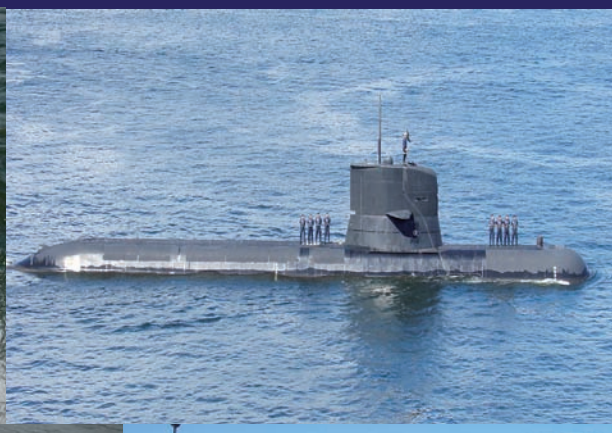
AIS CARBON PRO

Affordable, robust and high performance AIS Class-A Transponder



INCREASE YOUR SAFETY, SEE AND BE SEEN

The AIS CARBON PRO is an Automatic Identification System Class A transponder. AIS CARBON PRO has a graphical LCD display for presentation of target data. An intutitive user interface makes it easy to select functions e.g. easy change of navigational status and dimming of background light.

SOLAS COMPLIANT

The AIS CARBON PRO Class-A transponder is fully approved according to IMO-SOLAS chapter V requirements.

INLAND WATERWAY APPROVED

The AIS CARBON PRO Class-A transponder is fully approved for inland waterway AIS which is now mandatory for many inalnda waterways in Europe.

EASY TO INSTALL

The AIS CARBON PRO is easy to install and is delivered with all neccesary hardware e.g. flush mount- and gimbal bracket. Cables, interface box and GPS antenna w/10m cable is also included.

AIS IS MANDATORY

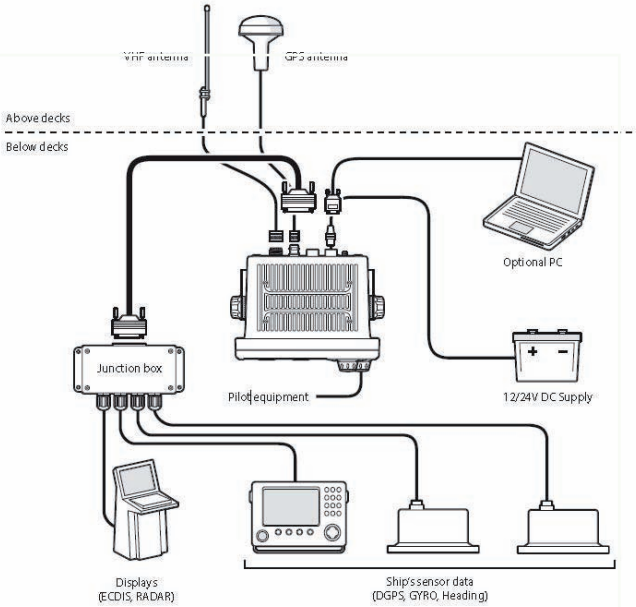
AIS is mandatory for all SOLAS vessels above 300 GT on international voyage. Further, European inland waterways has AIS carriage requirement and fishing vessels above between 15-24 m will be required to install Class A AIS between 2012-2014 (depending on size).

NO ONE KNOWS AIS BETTER

TRUE HEADING

FEATURES:

- Compact single box design w/ interface box
- Approval: FCC and USCG, Wheel Mark, IC (Canada)
- Rotary encoder for quick selection and data entry.
- Easily upgradeable through PC software
- Built in 16 Channel GPS receiver (GPS antenna included)
- High contrast mono-chrome LCD for clear presentation of data
- Dual mode Class A/Inland AIS configurable via built-in menu
- Fully compatible with True Heading GPS Compasses
- Configuration and set up software included
- Data display for MMSI, vessel name, call sign, vessel type, etc.
- Auto configuration for safety related message
- GPS diagnostics
- Key status indicators
- Displays receiver and transmitter statistics
- Displays Class A, Class B, base station and AtoN target data



Technical specifications

Physical

W x H x D:	210 x 105 x 138 (mm) 8.3 x 4.2 x 5.4 (inches)
Weight:	1,6 kg

Electrical

Power supply range:	12-24 VDC
Power consumption:	10 W (average) 4,75 A peak @ 12 VDC

Data Interfaces

RS232:	38.4kbaud bi-directional
RS422 (NMEA)	38.4kbaud bi-directional

Connectors:	VHF Antenna (UHF, SO-239) GPS Antenna (TNC)
Data connector:	9 way D-sub
Power:	LTWBB-04PMMS-LC7001
Interfaces & alarm relay:	Via 50 way D-sub to junction box.
Operating temp.:	-15ºC to +55ºC
Environmental:	IEC 60945 - Cat. C

VHF Transceiver

One transmitter and three receivers

Frequency:	156.025 to 162.025 MHz
Output power:	(41 dBm ± 1.5 dB)
Channel bandwidth:	25 kHz
Sensitivity:	better than -107dBm @ 20% PER

GPS Receiver (AIS internal)

16 Channel (WAAS, EGNOS, MSAT support)

Position accuracy:	< 3 meters CEP (GPS) < 2 meters CEP (DGPS)

Compliance

FCC, USCG, R&TTE, IEC, CE, RoHs

Approval and standards as applicable:

CCNR/ZKR Inland AIS Requirements
IEC60945 ed 4 Environmental requirements
IEC61993-2 Class A Shipborne equipment
IEC61162-1/2 ed 2 Digital interfaces
IEC61108-1 GPS Receiver equipment
ITU-RM.1371-3 Universal AIS Technical Characteristics

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