

AIS ATON CARBON TRT1

TYPE 1 and TYPE 3 AIS AtoN



Carbon AtoN is a certified Type 1 and Type 3 AIS AtoN. Offering a full range of features, including transmission of virtual AtoN targets, simple integration with lanterns and external sensors, plus over the air configuration and chaining.

The toughened enclosure is designed for continuous, long term use in the even the most extreme environments from the equator to the poles.

KEY FEATURES

- Certified Type 1 and Type 3
- Proven operational reliability
- Ultra low power consumption in all operating modes
- Multiple flexible sensor interfaces
- Integrated GPS antenna with optional external input
- Designed and manufactured for the toughest of environments

TECHNICAL SPECIFICATIONS

Physical Specification

Dimensions: 284x188mm, 11.2"x7.4" (H x D)
 Weight: 1.2kg, 2lb 10.3oz

Electrical Specification

Power supply: 12-24VDC
 Power consumpt.
 Type 1 AtoN: Less than 0.09Ah/day
 (with 3 minute position reporting rate)
 Type 3 AtoN: Less than 0.8Ah/day
 (with 3 minute position reporting rate)

Interfaces - basic AtoN.

USB: For Configuration.
 IEC61162-1 ports: 2 x NMEA0183 at 38400 baud
 Logic level IO lines: 5 configurable

Interfaces - via optional sensor interface

Five isolated digital inputs: Yes
 Two isolated analogue inputs – 0 to 36VDC.: Yes
 Three non-isolated analogue inputs: Yes
 Two relay drive outputs: Yes
 Analogue current sense (up to 5A): Yes
 Five non-isolated logic level input/Output Ch: Yes
 NMEA0183 (IEC61162-1/2) port: Yes
 Two RS232 ports – configurable baud rates: Yes
 SDI-12 interface: Yes

Standards Compliance

AIS Standard: IEC62320-2:2008
 Environmental: IEC60945:2002-08
 GPS Performance: IEC61108-1:2002-07
 Safety: EN60950-1:2006, +A11:2009
 +A1:2010, +A12:2011
 IALA: A126

VHF Transceiver

Transmitter: 1
 Receiver: 2
 Frequency: 156.025 to 162.025MHz
 in 25kHz steps
 Output power: 1W, 2W, 5W or 12.5W
 Channel bandwidth: 25kHz
 Channel step: 25kHz
 Modulation modes: 25kHz GMSK (AIS, tx and rx)
 Bit rate: 9600 b/s (GMSK)
 Receiver sensitivity: < -110dBm @ 20%
 Adj. ch. selectivity: 70dB

GPS Receiver & Antenna

Channels: 50
 IEC 61108-1: Compliant
 GPS antenna: Internal or external option
 Glonass: Option available
 Spurious response rejection: 70dB

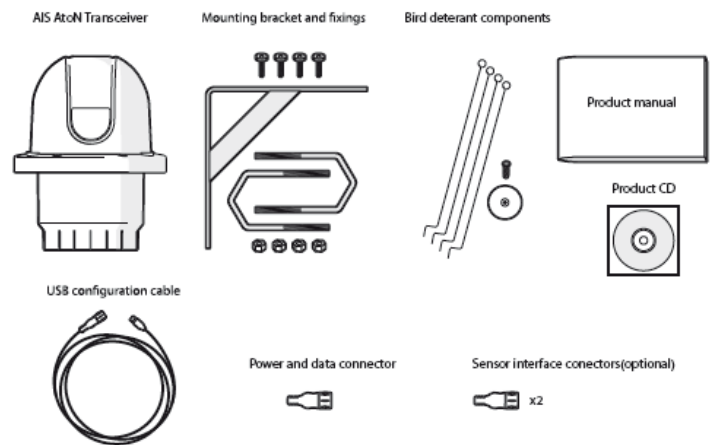
AtoN Function

- Type 1 and Type 3 versions available
- Supports configuration by VDL command
- Chaining option available
- Customisable sensor interfacing
- Virtual AtoN support

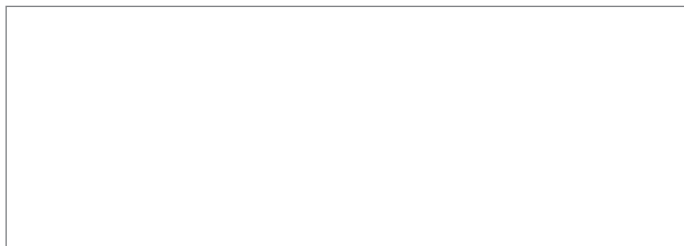
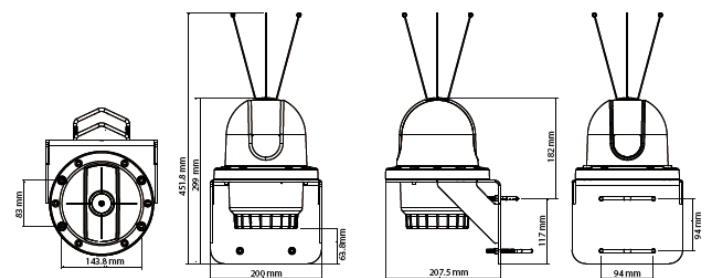
Environmental

Waterproof: P_x6 and IP_x7 rated for water ingress
 IEC 60945: 'Exposed' category
 Operating temp.: -25°C to +55°C

What's In The Box



Dimensions



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