

AIS transponder used as 'Aids to Navigation' station to provide location and identification of buoys, beacons or floating objects to nearby vessels on AIS chart displays in real-time



AIS Aids to Navigation (AtoN) Type3 transceiver with low power consumption

The easyAtoN is an AIS transponder used as 'Aids to Navigation' Type 3 station to provide location and identification of buoys, beacons or floating objects to nearby vessels on AIS chart displays in real-time.

The easyAtoN has got a rugged IP67 housing which can be mounted easily on fixed or floating objects, e.g. buoys to prevent collisions by transmitting the identification and position of the mark. The unit is able to create "synthetic", "virtual" as well as "real" electronic navigation marks which appear on AIS capable electronic chart plotters or navigation PC-software.

The easyAtoN is developed for the typical usage at marina or harbor entries, maritime warning signs or any kind of fixed or floating navigational marker buoys.

Function

The easyAtoN is a small VHF based AIS transceiver which can be mounted on a buoy or at a pole. With the integrated AIS receiver the easyAtoN is synchronized with the AIS time-slot-scheme and transmits the navigation information accordingly. The synchronization with the AIS traffic can be done by FATDMA or RATDMA.

The easyAtoN uses the AIS system to broadcast up to 32 AtoN real, synthetic and/or virtual navigation marker positions to all AIS receivers within the vicinity.

- Real AtoN
existing navigation marker with transmitter equipment
- Synthetic AtoN
existing navigation marker without transmitter equipment which become visible within the AIS system on chart plotter
- Virtual AtoN
a position of no existing navigation mark becomes visible within the AIS system on chart plotter

The configuration of the easyAtoN can be done with the programming software installed on a PC or Laptop connected via USB cable with the device.



Highlights

- Capability of generating virtual and synthetic AtoN navigation marks
- Integrated GPS antenna
- AIS FATDMA or RATDMA (by software selectable)
- Waterproof and rigid housing
- Control for external power switch

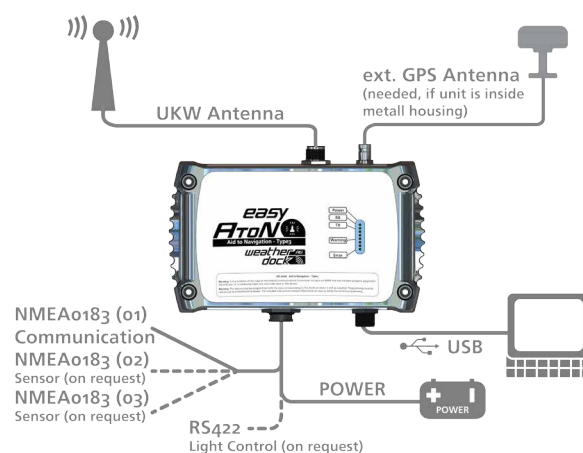
Technical Data

- Dimensions (LxWxH): 180 x 120 x 50 mm
- Weight: 700 g
- Power Supply: 9.6 - 31.2VDC
Consumption: 3-6W@12VDC (depending on configuration level)
Option: Solar panel
- Transmission Power 5 Watt
- IP67 waterproof
- 72-channel GNSS receiver
- Operation temperature: -10°C to +55°C
- Functionality: 5 Status LEDs
- Compliance/Certifications

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|--------------|--------------------------|
| AIS | IEC 62320-2 Ed.2 (2016). |
| Environm. | IEC 60945:2002 |
| GPS | IEC 61108-2003 |
| | EN 301843-1:2004 |
| Prod. Safety | EN 60950-1 |
| | ITU-R M.1371-5 |
- Part #A20004

Used Applications

- Seafarm protection
- Harbour entry marking
- Waterway marking
- Buoy marking



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