

AIS for Aids to Navigation

The AIS unit for floating or fixed Aids to Navigation.

The unit can either just transmit message 21 with AtoN status or it can together with LightGuard send and receive message 6 with monitoring and control information.

- Fully compliant with IEC 62320-2, IALA A126 and IEC 60945 (exposed)
- BSH Approved
- Low power consumption less than 0.4 Ah/day
- For use on floating or fixed AtoN's
- Supports VDL configuration and monitoring
- Provides reference points on a ship's RADAR and ECDIS
- Provides status of the AtoN device, including battery life and light status
- Designed to support chaining and RATDMA (Type 3 configuration only)
- Capable of supporting synthetic and virtual transmissions
- Type 3 unit supports message 7 and message 13
- Also available in Type 1 configuration



Main Technical Specification

PHYSICAL DIMENSION	
Height	134 mm
Width	127 mm
Depth	127 mm
Weight	1.6 kg
POWER CONSUMPTION	
Continuous Mode*	At 12 VDC: 170 mW (0.340 Ah per hour period)
DATA I/O	
Bi-directional I/O	(1) RS232 38.4K BAUD
Diagnostic I/O	(1) RS232 38.4K BAUD
TRANSMITTER PERFORMANCE	
TX Frequency Range	156.025 – 162.025 MHz
Tuning Resolution	25 KHz
Modulation	GMSK
TX Power Control	1 – 12.5 W
TX Power Accuracy	± 0.7 dB
TX Frequency Drift	± 500 Hz
Nominal Impedance	500 Ω
Antenna Connection	Type N
RECEIVER PERFORMANCE	
Number of Receivers	2
RX Frequency Range	156.025 – 162.025 MHz
Tuning Resolution	25 KHz
Dynamic Range	≥ 1000 dB
Co-Channel Rejection	≥ 10 dB
Adj. Channel Rejection	≥ 72 dB
Intermod. Rejection	≥ 65 dB
In-Band Blocking	≥ 86 dB
Noise Figure	≤ 5 dB
Nominal Impedance	50 Ω
Max Input	+ 10 dBm (no damage)
Minimum Sensitivity	≤ - 107 dBm
GPS Receiver	16 Channel
ENVIRONMENTAL	
Operating Temp Range	-25 to + 55 °C
Relative Humidity	0 to 95 %
*Note: All Specifications Tested @ 25°C	
TECHNICAL STANDARDS	
IEC 60945 (exposed)	
ITU 1371-3	
IEC 62320-2	
REGULATORY Approvals	
BSH	

*Continuous Mode: AIS AtoN reports Message 21 every 3 minutes in accordance with ITU-R M.1371