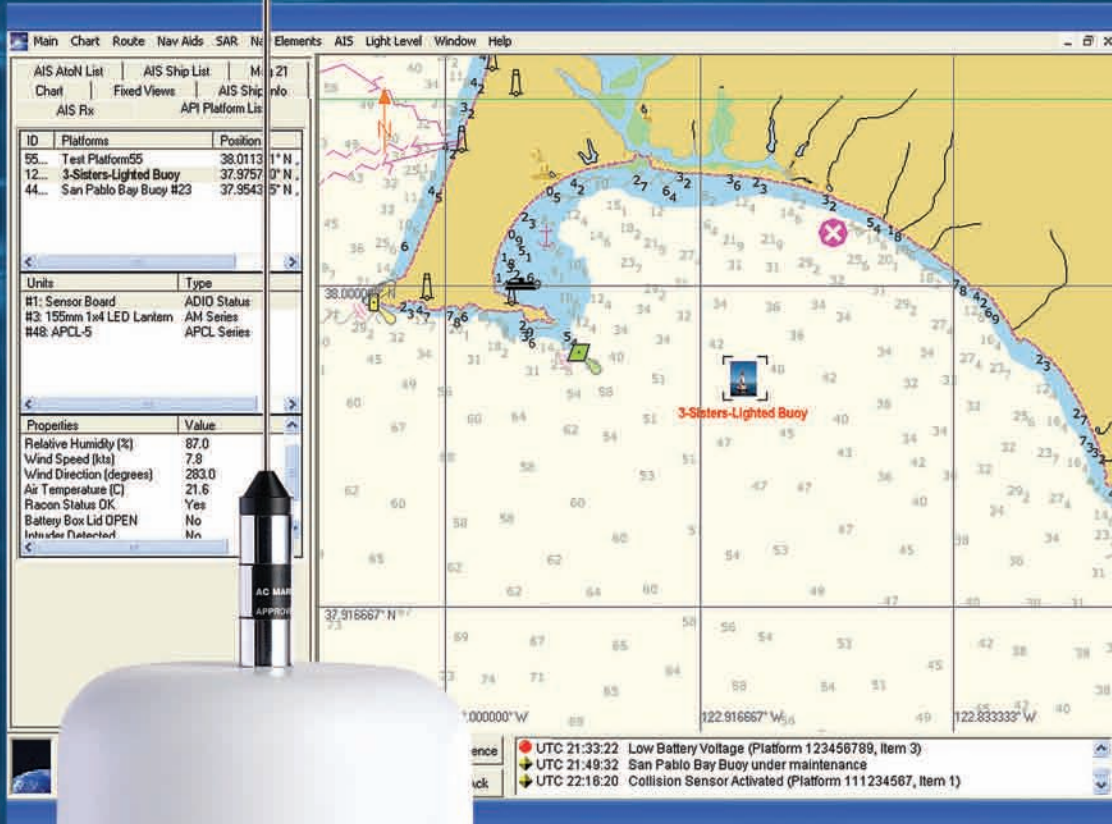


ATONIS

AtoN Transponder

Now AtoNs can interface with AIS to enhance navigational safety.



Pharos Marine 
Automatic Power



Automatic Power/Pharos Marine's ATONIS is the first to offer a low-power, fully compliant transponder—ready for delivery now.

Specifically designed for use on buoys, beacons and lighthouses, ATONIS fully integrates with the AIS network to increase navigation information available to vessels in the area. And the more information you are able to provide mariners about existing navigation conditions, the higher the level of safety you offer them.





Low-power, affordable and IALA compliant

Automatic Power has developed ATONIS to meet or exceed IALA/IMO/IEC standards. It incorporates innovative power saving features and consumes only 0.5 amp hours per day for reporting Message 21 at the IALA recommended reporting rate of once every three minutes. Considering the costs in life and property that could result from a navigation mishap, the detailed information that ATONIS provides to mariners is more than worth the investment.



This electronic module is the core of ATONIS.

A range of options

API teamed with True Heading AB, experts in the AIS field, to develop the most versatile family of AIS Aids-to-Navigation transponders on the market today.

ATONIS		
TYPE	FUNCTION	
I	FATDMA*	Transmits all messages
II	FATDMA*	Same as Type I, Plus: – One control receiver for single function control such as AtoN light on/off
III	FATDMA*/ RATDMA**	Same as Type II, Plus: – Two AIS receivers allowing for fully autonomous AIS interface without base station
AIS Repeater	FATDMA*/ RATDMA** AIS dual mode repeater	Same as Type III, Plus: – Repeater mode relays AIS information from other AtoNs or AIS vessels while simultaneously performing AtoN function

* Fixed Access Time Division Multiple Access
 ** Random Access Time Division Multiple Access

Message Chart

MESSAGE TYPE	MESSAGE CONTENT
21	AtoN identification report
6	AtoN status (light out, on/off station, battery level)
8	AtoN meteorological/hydrological data
14	– Safety broadcast, such as “Buoy Off-station” or “AtoN Failing” – Can be customized for customer-specific safety broadcast

ATONIS allows you to transmit a wide range of messages, and its capabilities are easily scaleable with additional software and add-on circuit boards. ATONIS is also available in a dual-mode, simplex repeater version that complies with IALA recommendation A-124 for repeater operation, and it can also function simultaneously as an AtoN transponder.

Use the AIS system on your AtoNs for maximum safety

With ATONIS integrated into your AIS system, you'll provide the most advanced package of Aids-to-Navigation information services to mariners operating in your area. And when ATONIS is added to other structures in the vicinity, such as wind farms and oil and gas platforms, your area will have the highest level of safety available today. We're ready to deliver your ATONIS now.

ATONIS Features

Low Power

Operates in sleep mode; activates to send scheduled messages.

Repeater Mode

Type 3 ATONIS can function as low-power AIS simplex repeater, while still functioning in AIS AtoN station mode if needed.

Hardware Flexibility

Port options permit user to connect to variety of sensors without upgrading to new hardware.

ATONIS retrofits into existing equipment.

Message Flexibility

In addition to sending normal Messages 21, 6, 8 and 14, ATONIS can automatically transmit Message 14 (Failing AtoN) when AtoN is off-station.

Software Enhancements

Unit has processing capability to allow customer-specific software enhancements, such as automatic activation of lights when vessels come within pre-set range; and storing record of passing ships for later downloading.



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