

Akari-100 - AIS Transponder

An AIS transponder developed specifically for Aids-to-Navigation

Akari-100 is Zeni Lite second generation of AIS transponders for use on buoys, beacons and lighthouses, combining proven AIS technology from Saab TransponderTech with Zeni Lite's aids-to-navigation experience.

Akari-100 broadcasts the aids-to-navigation AIS message, Message 21. It also automatically monitors correct operation of the light and power supply, and tracks buoy position. Serial ports allow other equipment such as weather sensors, or tide gauges, to input data for transfer over the AIS network, using AIS Message 6 or 8.

With the mandatory carriage of AIS by SOLAS vessels, and the smaller bulk and lower power drain of *Akari-100*, it is the logical choice to replace expensive and power-hungry racons on modern aids-to-navigation.



Easily installed

Akari-100 operates with any 12-Volt DC lantern. The unit accepts input voltages ranging from 10VDC ~ 30VDC. It contains special software to minimise power drain, so that in many cases, no extra power system capacity will be needed on the aid-to-navigation. No connections to the inside of the lantern are needed.

Akari-100 simply connects quickly and easily to the 12-Volt DC power supply. Separate antenna units handles GPS and AIS signals. External packaging to IP-68 allows *Akari-100* to be installed on any fixed or floating aid-to-navigation. On a buoy, the main unit may be mounted in any convenient location, with only the GPS and AIS antennas needing to be near the top of the buoy tower.

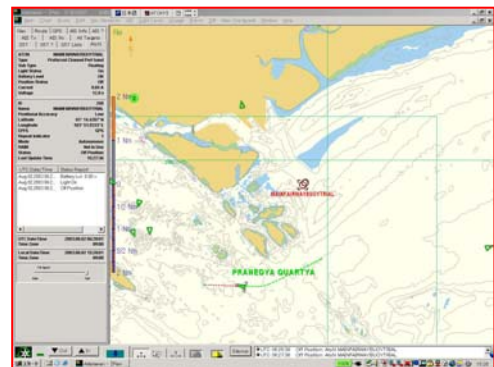
Complies with IALA and ITU requirements

Akari-100 complies with all ITU and IALA requirements for AIS messages from aids-to-navigation.

Aids-to-navigation monitoring software

New software allows the aids-to-navigation authority to monitor the operation and position of aids-to-navigation fitted with *Akari-100*. The software is based on the ICAN "Aldebaran-II" charting software and may be run on a PC under the Microsoft Windows™ operating system. The PC may be linked to an existing AIS base station or base station network, or it may be used with a stand-alone AIS base station unit such as the Saab TransponderTech R30.

In the event of light failure, low battery voltage, or buoy off-station, the software alerts an operator, either directly or via email or cellular phone. It also stores event data for later analysis.



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