



# ATONIS PRO ZONE 1

*Aids to Navigation AIS Transponder*

BROCHURE



## OVERVIEW

AtonisPro Zone 1 is an Aids to Navigation AIS Transponder for use on Offshore Production Facilities to alert vessels to the location of offshore structures.

AtonisPRO is available in Type 1 or 3 models and has the capability to transmit all standard AIS AtoN, Weather and Hydrological messages, as well as monitoring the AtoN equipment installed on offshore platforms. ATONISPro is also software configurable to transmit an addressed safety-related Message 12 to an AIS-transmitting vessel when it comes within a user configurable, pre-set range to the facility and can transmit Message 21 for synthetic or virtual buoys in proximity to the platform.

ATONIS PRO configuration is accomplished via RS-232 or an optional Bluetooth™ connection for in-field servicing without having to go aboard or lift a buoy to access the transponder.

## CERTIFICATES

- BSH, CE, R&TTE Directive (EC/1999/5)

## KEY FEATURES

- ATEX certified Ex 'd' Zone 1 Enclosure
- BSH Approved
- Compliant with IALA A-126; IEC 60945 and IEC 62320-2; ITU-R M.1371
- Transmit standard AIS Aton Message 21
- Transmits Msg 21 for up to 4 virtual or synthetic buoys (e.g., mooring buoys or marker buoys)

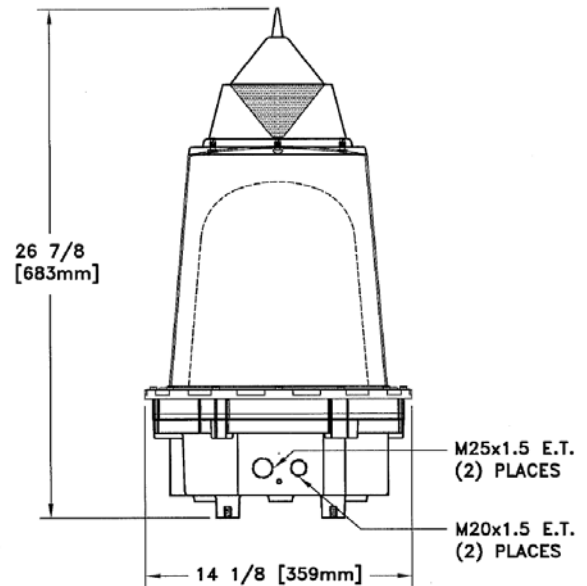
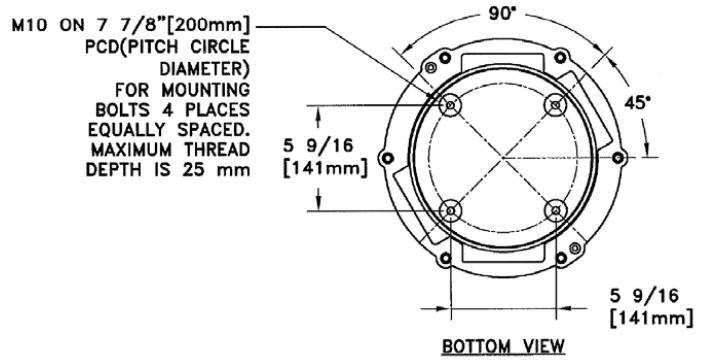
## PHYSICAL SPECIFICATIONS

Height	683 mm (26 7/8")
Weight	20 kg (44 lbs.)
Input Voltage	9-32 VDC; Overcurrent and Reverse Polarity Protection
Power Consumption	
Continuous Mode <sup>1</sup>	250 -500 mW (0.5 - 1 Ah per 24 hour period)
Lean Operation Mode	25 - 50 mW (50 mAh - 100 mAh per 24 hour period)
Transmit Power (ERP)	<ul style="list-style-type: none"> <li>• 1 watt for Zone 1 applications<sup>3</sup></li> <li>• Non-Zone 1 installations power is configurable for 1, 5 or 12.5 watts</li> </ul>
Monitoring	2 digital and 2 analog inputs; additional 4 digital and 4 analog inputs with use of optional interface board
AIS Messages	21, 6, 8, 12, and 14
Frequency Range	155 – 163 MHz, 25kHz bandwidth, Configurable
Receiver Sensitivity	Better than -112 dBm PER 20%
VHF and GPS Antennas	Internal
Operating Temperature	-15 ° to +50°C
Ingress Rating	IP-67

<sup>1</sup>AIS AtoN report every three minutes IAW ITU-R M.1371.

<sup>2</sup> Monitoring of AtoN status, position, and AIS reporting once every 10 minutes. Lower duty cycles will result in lower power consumption.

<sup>3</sup> EIRP limited to 3.5W for IIC atmosphere; maximum permissible antenna gain of 5.4 dBi.



\*All values are subject to change without notice.

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