



**WamBlee**

Committed to Excellence

# W750

scientific and  
oceanographic

## **TRANSPONDER AtoN**

- AVAILABLE IN Type 1 and Type 3.
- LOW OPERATING CONSUMPTION.
- REMOTELY CONTROLLABLE.
- INTEGRABLE WITH IRIDIUM® SATELLITE SYSTEM.



Powered by  
 **iridium**®  
Everywhere

The W750 device is a maritime and river navigation aid (AtoN) system. Adapted to maritime signage, it provides significant advantages in navigation aids. In particular, it allows:

- Radar/ECDIS displays on vessels to obtain reliable data in all weather conditions regarding the identification of an AtoN
- AtoN identification data (MMSI, position, etc.) available to vessel traffic.
- Monitoring the status of the AtoN (status of lights, sound devices, etc.)
- Real-time alerts when buoys move from their position.
- Reducing the risk of collision with AtoN.
- Virtual and synthetic navigation aids.

**Environmental protection:**

Equipped with integrated communication capabilities, the W750 transponder used on coastal or marine structures and associated with sensors, allow the processing and saving of meteorological and hydrological data, providing valuable environmental data.

**Offshore Structure Reporting and Collision Prevention:**

The W750 transponder enables you to mark offshore structures, such as instrumented buoys, wind and wave energy farms, oil and gas

platforms, offshore docks, pipelines and more, to improve navigation safety and prevent collisions.

**Navigation study and analysis tool:**

Thanks to the information obtained, the W750 transponder can be used as a navigation study and analysis tool.

- Analysis of the impact of ships on navigation aids and the probable causes of the impact
- Study of the lateral distribution of vessels navigating in a crossing area in different situations of waterways
- Study of the behavior of ships in waterways based on the speed of the ship
- Determination of the effectiveness of lengths and widths of crossing areas in waterways
- Traffic optimization at port and waterway access points

The W750 device is equipped with various interfaces for connecting external sensors, control and monitoring systems and can be customized according to needs.

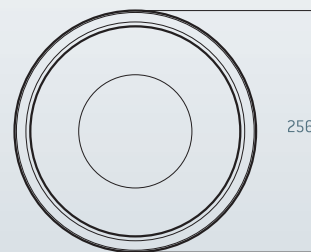
Furthermore, the extremely low consumption allows for easy installation with low environmental impact power systems, such as solar panels or wind turbines.

## CARATTERISTICHE TECNICHE

- Operating temperature: -20 to -60 °C
- Operating voltage: 10 to 36 V, with polarity protection
- Operating current:
  - < 1 mA in sleep mode
  - < 50 mA in operation
  - < 2.5 A in transmission
- Consumption
  - [message 21 every 3 min] type 1: < 0.15 AH/day
  - [message 21 every 3 min] type 3: < 1 AH/day
- GPS Receiver: GPS L1 C/A code SPS 60 channels
- Acquisition time:
  - Cold start: 36 s
  - Warm start: 4 s
- Sensitivity:
  - In acquisition [cold]: -143 dBm
  - Acquisition [hot, cold]: -151 dBm
  - Tracking: -157 dBm
- Supports WAAS/EGNOS
- VHF antenna connector: N female
- Power/Input/Output Connector: Amphenol C16-1
- AIS Frequency: AIS1 161.975 MHz, AIS2 162.025 MHz
- Power: 2W or 12.5W
- Transmission mode: FATDMA (RATDMA)
- Inputs/Outputs:
  - 4 optocoupler -isolated inputs (to read data related to light faults, lights on and Racon fault information)
- Characteristics:
  - Isolation voltage 6000 Vrms
  - Protection voltage 24 V 600 W for 1 ms
  - Operating voltage from 24V to 3.3V
- 1 relay output (for remote control of Racon deactivation)
- Characteristics:
  - Isolation voltage 6000 Vrms
  - Maximum current 200 mA at max 24 V.
- Communication ports:
  - TX and RX in RS232 for configuration and reception of technical data
  - RX in RS422 for receiving meteorological data
- Power indicator: Via LED

- Dimensions: diameter 250 mm - height 85 mm
- Weight 1.2 kg
- Housing material: ASA plastic with AntiUV treatment
- Casing color: white
- Protection: IP67
- Accessories:
  - 1 VHF antenna
  - 2 x 7-wire shielded cables with
  - Amphenol C16-1 connector, length 5 m
  - RG213 coaxial cable with male N connector, length 5 m
- RED Directive, IEC 62320-2 Standard, UN 60945, ITU-R M1371, IALA A-126
- 1 year warranty

Code	Description	Quantity per package
P20043	W750 Trasponder AtoN	1



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