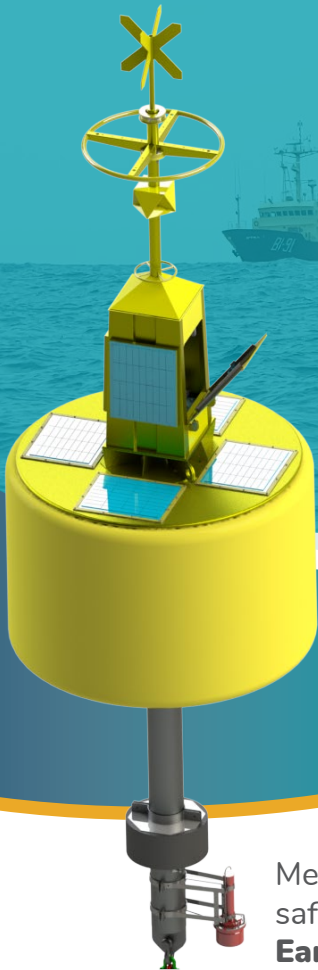


# TSUNAMI BUOY

## TSUNAMI EARLY DETECTION



Mediterráneo Señales Marítimas, aware of the increasing concern on safety and security of human lives, has developed a complete **Tsunami Early Detection and Warning System**.

## FEATURES

This system of advanced technology detects the event, processes and sends the information to a Control Centre with WEB platform.

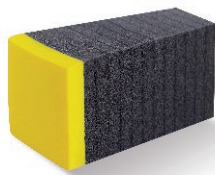
A pressure sensor deployed in a water depth of up to 7,000 meters detects height variations of the water surface.

This buoy has been especially designed to be deployed in deep waters and hold the complex control and communication systems. The float is made from shock-resistant elastomer.

This buoy complies with all IALA Recommendations and safety Standards.



ANTI-VANDAL  
SECURITY



ELASTOMER  
FLOAT

## ADVANTAGES

- Reaction time less than 1 minute (detection, processing and warning sending).
- Able to measure variations of the sea water column of 1 mm.
- Message structure compatible with the NOAA Tsunami Warning System.
- Redundant communications via satellite (permanently monitored from the control centre and the buoy CPU).
- Positioning by GPS.
- AIS AtoN transponder as an option.
- Float manufactured with closed-cell polyethylene foam sheet (no water absorption) projected with a layer of coloured polyurethane elastomer.
- Double solar power system.
- Marine LED lantern of high vertical divergence, with a luminous range of 5.5 nm.
- Radar reflector and top mark.
- Web-based Tsunami Warning Control Centre available.

# BOYA TSUNAMI

## TSUNAMI EARLY DETECTION

### SUPERSTRUCTURE

<b>Material:</b>	Marine aluminium.
<b>Coating:</b>	Marine paint highly resistant to corrosion and UV radiation, according to chromatic IALA Recommendations.
<b>Top mark:</b>	According to IALA Recommendations.
<b>Radar reflector:</b>	10 m <sup>2</sup> (X Band) to improve radar echo of the buoy.
<b>Solar modules capacity:</b>	Up to 4 nos. vertical solar modules + 4 nos. horizontal solar modules.
<b>Batteries capacity:</b>	Up to 400 Ah, CPU control unit and communication system, into a watertight cabinet with safety lock.
<b>Accessories:</b>	Security and protection ring for maintenance works.
<b>Lifting eyes:</b>	2 nos.
<b>Hardware:</b>	Stainless steel.

### FLOAT

<b>Diámetro:</b>	2.4 metres.
<b>Material:</b>	Closed-cell polyethylene solid foam sheet.
<b>Coating:</b>	UV protected self-coloured polyurethane elastomer, high elasticity against impacts.
<b>Top surface:</b>	Anti-sliding, to increase security during maintenance.

### TAIL

<b>Material:</b>	Stainless steel.
<b>Ballast weights:</b>	Treated steel, detachable.
<b>Mooring eye:</b>	1 no.
<b>Protection:</b>	Sacrifice anodes, to increase service life.

### BUOY ALARMS

- Battery voltage alarm.
- Excess of consumption alarm.
- Satellite communication failure alarm.
- Tamper alarm.
- Positioning alarm.
- Modem alarm.

### SENSOR SIGNALS

- Sensor battery alarm.
- Percentage of sensor used.
- Sensor temperature.
- Sensor communication alarm.
- Sensor hibernation alarm.
- Sensor inclination alarm.

Specifications subject to change without previous notice.

Para mayor información, consultar fichas técnicas del datalogger y de los sensores disponibles.

Posibilidad de realizar configuraciones especiales para requerimientos técnicos particulares del cliente bajo pedido especial.

