

# Anteia

Directional Wave Buoy

*Product overview*

**ZUNIBAL** 

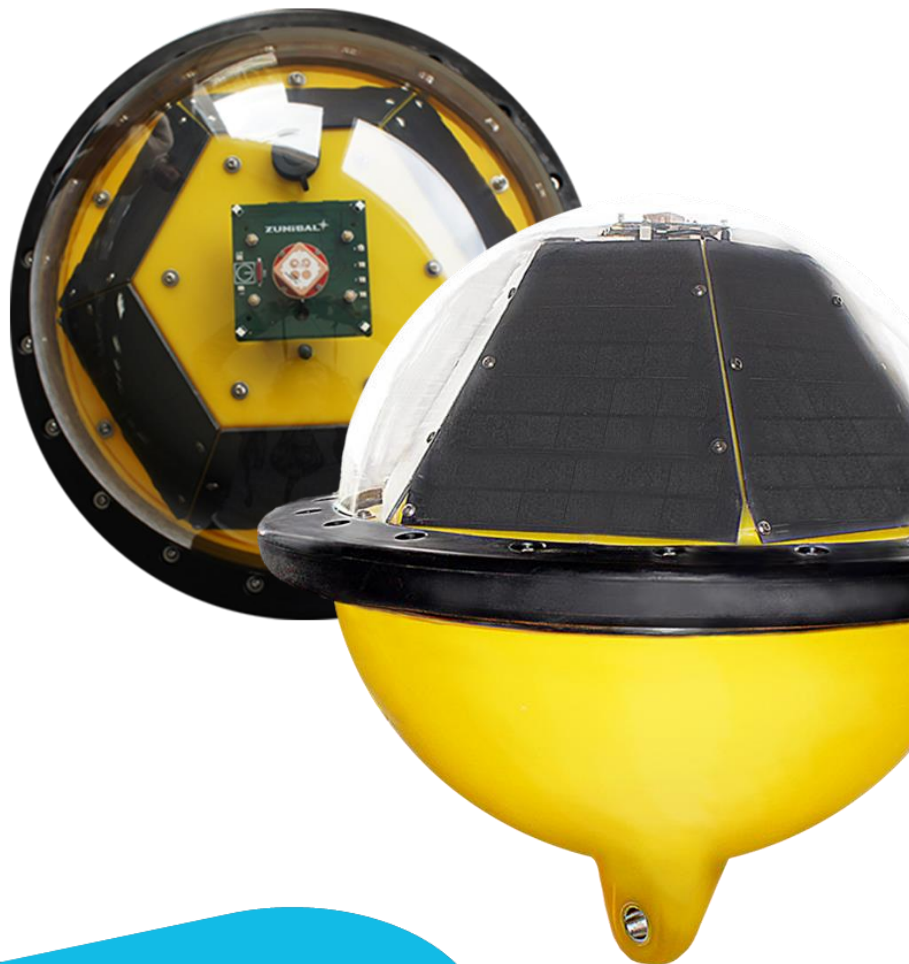


## 1. Advantages

- » Easy to deploy
- » Fully solar powered
- » Rechargeable battery
- » More than 5 years of data storage capacity
- » Statistical and Spectral Parameters Determination
- » Real time data: wave to wave information
- » Remote access for data acquisition and processing
- » Configurable Mooring Design
- » Continuous sampling
- » Web application: Ocean Watcher

## 2. Applications

- » Coastal monitoring application
- » Civil engineering studies
- » Wave energy converters
- » Aquaculture application
- » Research activities



### 3. Technical Specifications

<b>Wave motion sensor</b>	
<i>Sensor</i>	GPS 10Hz
<i>Period</i>	1.6 to 60 sec
<i>Calibration</i>	Not needed
<i>Exclusion</i>	GPS signals do not penetrate through water, occasional data gaps may occur
<b>Wave data</b>	
<i>Data</i>	North, East, Down (Only for special requirements)
<i>Resolution</i>	1cm
<i>Range</i>	± 20m
<i>Rate</i>	1.28Hz
<i>Wave by wave</i>	Each individual wave detected is reported and also sent
<b>Spectral data</b>	
<i>Frequency resolution</i>	0.005Hz
<i>Frequency range</i>	0.005 to 1.275Hz
<i>Direction resolution</i>	1°
<i>Direction range</i>	0-360°
<b>Standard features</b>	
<i>LED flashing</i>	4 leds, with IALA pattern
<i>GPS position</i>	From 1 to 15 minutes (configurable with steps of 0.5 minutes)
<i>Water temperature</i>	-1°C to 40°C, resolution 0.1°C, accuracy: ± 0.5°C
<b>Options</b>	
<i>Radio transmitter</i>	868MHz. Up to 4Km
<i>Iridium</i>	Satellite communication
<i>GSM</i>	Internet communication
<b>General</b>	
<i>Hull diameter</i>	0.6m (with fender)
<i>Material</i>	Plastic
<i>Weight</i>	26Kg
<i>Batteries</i>	Rechargeable Li-Ion
<i>Solar panel</i>	6 solar panels. Ensure the battery charging (power enough for long term survivability)
<i>Power switch</i>	magnet
<b>Data access</b>	
<i>Web page</i>	Data management/visualization, data downloading
<b>Mooring system</b>	
<i>Customized mooring line</i>	Designed for each location

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[zunibal@zunibal.com](mailto:zunibal@zunibal.com)

[www.zunibal.com](http://www.zunibal.com)

Idorsolo, 1

48160 Derio

Bizkaia - Spain