



OceanSense Buoy

Multiparameter buoy for comprehensive ocean observation



The OceanSense Buoy is a versatile and robust system designed for real-time ocean observation across a broad range of applications. Available in three tailored models, it supports the precise measurement of essential oceanographic and water quality parameters — including sea surface temperature (SST), salinity, oxygen, chlorophyll, turbidity, and more.

Built for durability and seamless operation in maritime environments, OceanSense ensures continuous and autonomous data collection powered by photovoltaic systems. Real-time transmission via GSM/4G or satellite connectivity makes it an ideal tool not only for scientific research and aquaculture, but also for public authorities and coastal managers seeking to monitor marine conditions, safeguard water quality, and support sustainable coastal management.



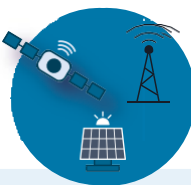
Real-Time monitoring, tailored to diverse needs

Available in three models, OceanSense offers versatile, multiparameter measurement for diverse ocean monitoring applications.



Comprehensive Ocean Data in a single solution

Collects a full range of essential variables – from SST and salinity to oxygen, pH, chlorophyll, and turbidity — all in one solution.



Autonomous and reliable data transmission

Solar-powered and equipped with GSM/4G or satellite transmission to ensure uninterrupted, real-time data delivery.



Engineered for demanding marine environments

Maritime-grade design ensures stability, buoyancy, and minimal maintenance, even in demanding ocean environments.

SAFEGUARDING COASTAL WATERS

OceanSense delivers essential real-time ocean data to support both scientific and operational objectives. A valuable asset for public authorities, environmental agencies, and maritime operators, it plays a key role in safeguarding water quality, sustaining coastal tourism, advancing research, and enhancing day-to-day ocean and coastal management.



Research & scientific monitoring



Environmental Compliance & Water quality



Maritime operations and resource management



Aquaculture & fisheries optimization

OceanSense Specifications – Oceanographic & Water quality parameters

MEASUREMENTS	RANGE	ACCURACY	RESOLUTION	OCEAN-SENSE AQUA	OCEAN-SENSE PLUS	OCEAN-SENSE PRO
Sea Surface Temperature (SST)	-5°C to +50°C	±0.1°C	0.01°C	.	.	.
Conductivity	0 - 5 mS/cm 0 - 100 mS/cm 100 - 275 mS/cm	±0.5% of reading or ±1 mS/cm w.i.g. ±1% of reading ±0.001 mS/cm ±2% of reading mS/cm	0.1 mS/cm 0.001 mS/cm 0.001 mS/cm	.	.	.
Sea salinity ¹	0-70 PSU	±2% of reading PSU	0.01 PSU	.	.	.
Oxygen concentration	0 to 20 mg/l 20 to 30 mg/l 30 to 50 mg/l	±0.1 mg/l ±0.15 mg/l ±5% mg/l of reading	0.01 mg/l	.	.	.
Oxygen saturation	0 to 500%	Corresponds with the accuracy of the concentration	0.1	.	.	.
Sound velocity ¹	-	-	-	.	.	.
Total dissolved solids ¹	0 to 65,000 mg/L	±5% of reading mg/L	0.1 mg/L	.	.	.
Chloride ¹	-	-	-	.	.	.
Chlorophyll (Fluorescence-Fluor-Chlorophyll A)	0 to 500 µg/L	Linearity: 0.99 r ²	0.01 µg/L	.	.	.
pH (max depth 50m)	0-14 pH units	±0.1 within 10°C of calibration or 0.2 units	0.01 pH unit	.	.	.
cdom/FDOM	0 to 1.500 ppb	Linearity: 0.99 r ²	0.01 ppb	.	.	.
Turbidity	0 to 1000 FNU 1000 to 4000 FNU	±0.3 FNU or ±2% of reading w.i.g.±4% FNU of reading	0.01 FNU	.	.	.

1. Computed measurement