EBM22OC-3SAS

OCEANOGRAPHIC BUOY

The **EBM-OC buoys** have been designed to measure various meteorological, oceanographic and environmental parameters through different combinations of sensors and integrate a data acquisition, processing and transmission system.

FEATURES

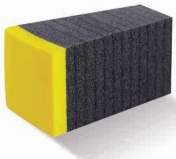
The EBM-OC-SAS buoys incorporate a light and elastic float, manufactured with a solid core of closed-cell polyethylene foam sheet (no water absorption) covered with polyurethane elastomer. Through the SAS (Sensor Access from Surface) system, sensors can be installed and protected in a dedicated compartment, allowing in-situ maintenance without the need to remove the buoy from the water or to use special vessels.

Thanks to the materials used, the buoy offers high resistance to impacts and collisions and is virtually unsinkable, ensuring the protection and integrity of the equipment (sensors and electronics) integrated into the buoy.

Using high-quality and resistant materials, they provide a long service life under the harshest marine conditions and are environmentally friendly as all the materials are recyclable.

Designed according to IALA Recommendations.

ANTI-VANDAL SECURITY



ELASTOMER FLOAT

ADVANTAGES

- Integrates marine lantern, radar reflector, day mark and top mark so that they are conspicuous and highly visible to vessels.
- Watertight superstructure to house all electronic equipment and batteries.
- The buoy incorporates a Surface Access System (SAS) for subsea sensors, enabling easy access, maintenance and replacement of the sensors installed below the buoy's waterline.
- Integration of any commercially available sensor (weather stations, wave sensor, multiparameter water probes, ADCP and/or others).
- Datalogger designed for a complete management of the sensors and ability to interact with them individually through remote connection.
- Total control on operational and navigation parameters of the buoy with settings by the user.
- Solar power system adapted based on the energy balance of the equipment for sufficient autonomy of the buoy without solar radiation.
- Anti-vandal protection and safety systems.

MSM OCEAN

EBM22OC-3SAS

OCEANOGRAPHIC BUOY

SUPERSTRUCTURE

Material:	Marine aluminium.
Coating:	Polyurethane marine paint resistant to UV light, colour according to IALA Recommendations.
Top mark:	According to IALA Recommendations.
Radar reflector:	10 m^2 RCS (X Band).
Marine lantern:	Integrated in the mast with 360° luminous output and up to 8 nm luminous range (T=0.74).
Solar modules:	Integrated with capacity up to 455 W.
Batteries:	Integrated with capacity up to 260 Ah.
Supports:	Antennas and sensors.
Transponder:	AIS AtoN Transponder (optional).

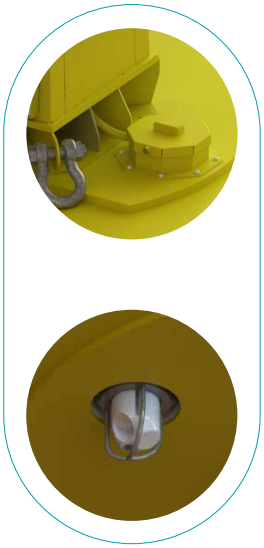
FLOAT

Diameter:	2.2 m.
Material:	Closed-cell polyethylene foam.
Coating:	UV protected pigmented polyurethane elastomer.
Top surface:	Anti-sliding, to increase security during maintenance.

TAIL

Material:	Stainless steel.
Ballast weights:	Treated steel, detachable.
Mooring eye:	1 no.
Supports:	Underwater sensors.
Protection:	Sacrifice anodes, to increase service life.
Options:	Skirt tail available on request.

SAS SYSTEM



DATALOGGER MODULE

- Allows the connection, setting, control and management in transparent mode of any type of sensor.
- All data is processed with quality controls and stored locally as well as transmitted through telemetry modules (Satellite, GSM/GPRS, radio, AIS, and others) to the Control Centre.
- Systems failures and alarms transmitted in real to the Control Centre.

MONITORING AND DATA MANAGEMENT SOFTWARE

- Monitoring of operational status and alarms of the buoy.
- Remote management of sensors.
- Management and display of collected oceanographic data.

Specifications subject to change without previous notice. Other sizes available.
For more information, refer to datasheet for datalogger and sensors.
Possibility of implementing special configurations based on customer's requirements.

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