

MSi BUOY

Description

Buoy used for tracking and monitoring of drifting floating objects (FAD's) via satellite. Especially designed for the fishing of tuna.

It includes satellite transceiver with GPS, electronic circuit, easy to open design, pack of rechargeable and alkaline batteries, temperature sensor and magnetic (On/Off) switch.

Equipped with double power supply system: solar panels with rechargeable batteries and alkaline batteries, which provides a theoretically unlimited autonomy and security due to its extra energy reserves.

Operation

Once activated, the MSi buoy transmits a message that includes the GPS data position in latitude / longitude, water temperature in Celsius and the battery level in Volts.

The MSi buoy has possibility of various modes of operation:

- **Low consumption mode:** it transmits 2 messages per day.
- **Approximation mode:** it transmits 4 messages per day (every 3 hours) during 12 hours.
- **Recovery mode:** it transmits a first message almost instantaneously and after that it transmits messages every 15 minutes during 2 hours.
- **Poll mode:** it transmits 1 message a few minutes after request is made (polling).
- **Flash mode:** it continuously activates the flash and transmits messages for one hour.

After installing MSB Software the switching mode is made from the on board terminal automatically and simply (by means of mouse clicks).

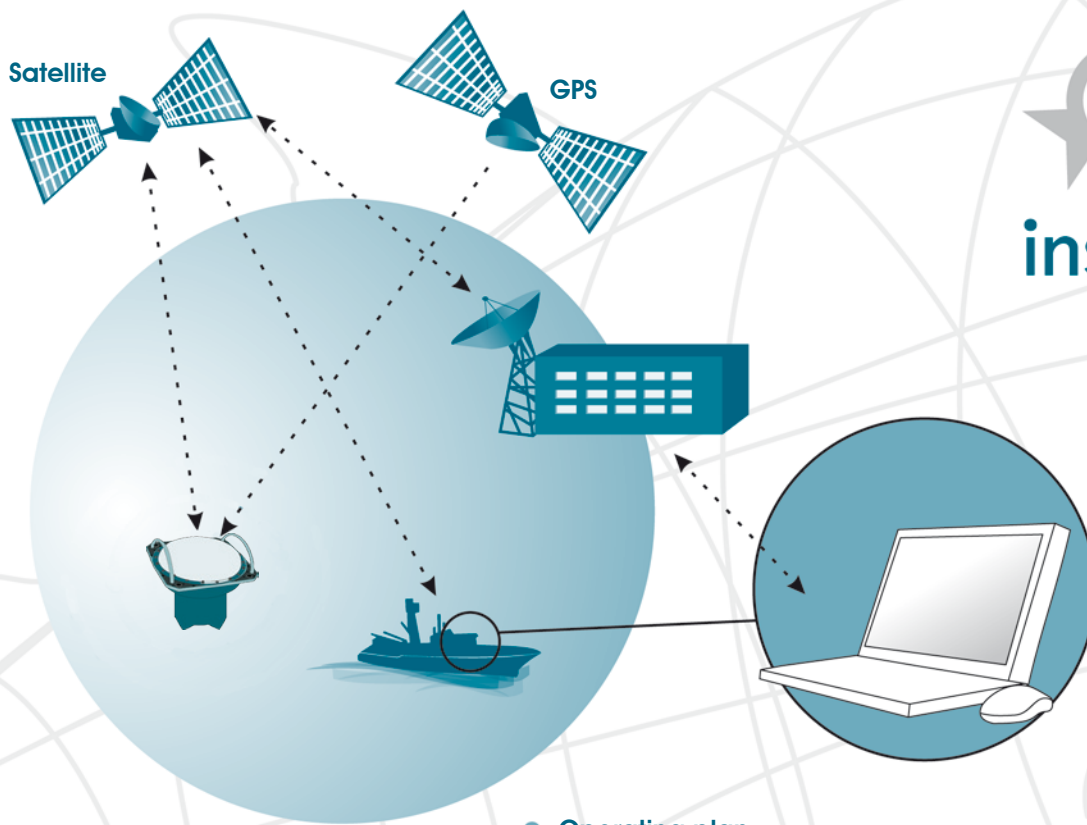
The reception of the messages on board is made by satellite totally automatic.

The data presentation is made on the Reception System screen with C-MAP vectorial cartography.

Advantages

- As all of its transmissions are made by satellite, **the operation coverage is global.**
- **Communications cost are a minimum flat rate.**
- The buoy has not metallic parts nor external antenna. The external casing in small dimensions is transparent and **its reflection-proof finish makes undetectable to both the naked eye and to radar.**
- It has a **flash** for an easy nocturnal location.
- Thanks to modern technology and optimized power consumption, the battery has a theoretically unlimited autonomy. In case of any problems on the solar panels or alkaline batteries it has the battery pack reserves which assures the operation of the buoy.
- The mushroom design assures excellent **stability** in open sea.





Operating plan

The on board data reception is totally automatic. The mode change of the buoy is made with a simple mouse click.

Various menus can be selected. For example: listing of all the buoys, listing of the last positions of a buoy, graphical representation of all the buoys with different colors, graphical representation of one buoy, etc. The position information can be sent to be represented in a MAXSEA plotter.

The communication to the vessel is made by various satellite systems, for example: MSR, Fleet MPDS or e-mail, Iridium, etc.

Technical characteristics

Weight: 8,9 Kg.

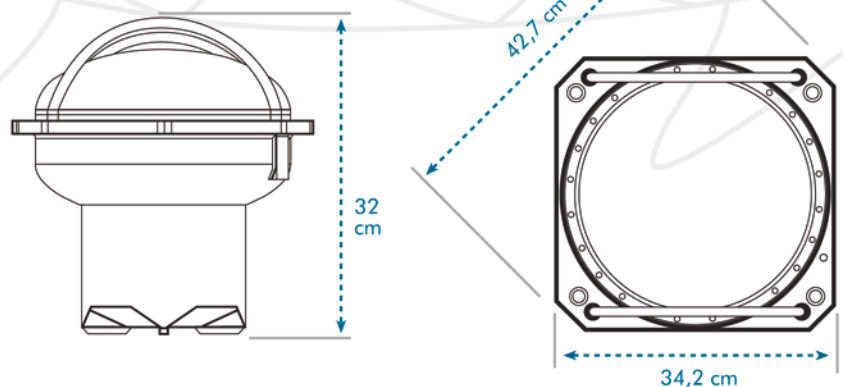
Battery: rechargeable battery with solar panels and a package of alkaline batteries for an emergency.

Floating: 4 litres.

Working temperature: -5°C to +40°C.

Measurements: 32 cm high x 42,3 cm as a maximum wide. According to drawing.

Compatible software: MSB 2.3 or upper.



General Agent