

## MSN-10

### Audible range over 2 nautical miles

The Mediterráneo Señales Marítimas foghorn, model MSN-10 automatically provides a 360° beam of sound in the horizontal plane, it is specifically designed to be installed in places with thick fog or in off-shore platforms. Designed as an aid to navigation, it provides an audible range over 2 nautical miles.

### Long-service life under the harshest marine conditions

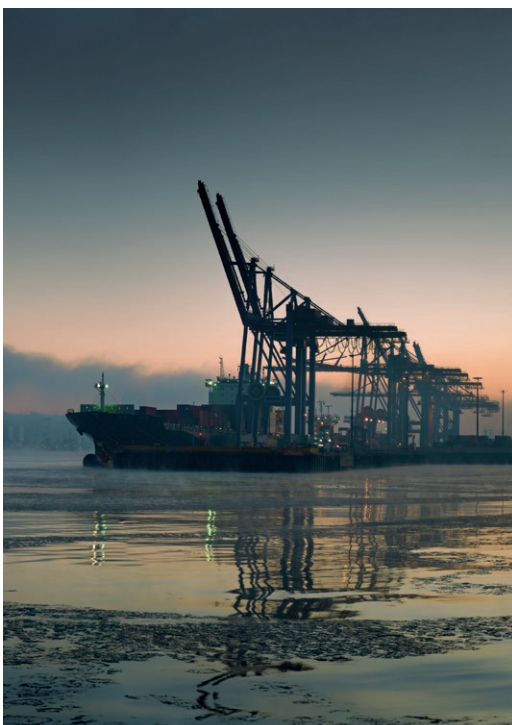
It is manufactured with high-quality and resistant manufacturing materials to achieve a long-service life under the harshest marine conditions.

Due to his modular design, it is easy to increase or reduce the sound intensity at will.

### Low consumption

Ideal for off-shore locations requiring a low consumption, such as isolated solar-powered applications.

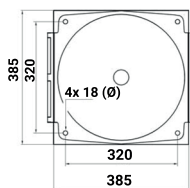
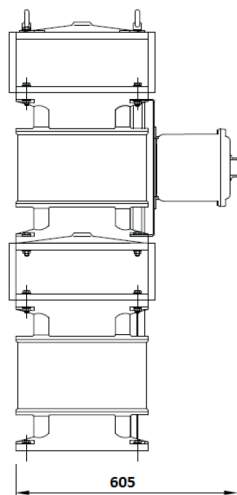
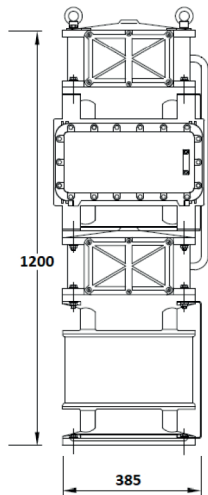
Designed according to IALA Recommendations.



## FEATURES

- Audible range over 2 nautical miles.
- 360° beam of sound in the horizontal plane.
- Emission of 134 dB at 1 meter (2 levels foghorn).
- Off-time current, lower than 0.03 A.
- Frequency: 800 - 850 Hz (accuracy 0.2 Hz).
- IP 66 watertightness degree.
- Protection against corrosion.
- Ready to be charged by solar energy or conventional batteries.
- Configuration by levels (up to 5 units).
- Control unit based on microprocessor.
- Audible signal adjustable by user, Morse code or other programmed code by PC.
- ATEX version under request.

# MSN-10



## Power Supply

<b>Voltage:</b>	24 Vdc or 230 Vac (12V optional).
<b>Operating current (24V):</b>	Up to 7.5 A, average current $\leq$ 1 A
<b>Quiescent current:</b>	Lower than 30 mA.

## Transmission

<b>Frequency range:</b>	800 to 850 Hz (accuracy 0.2Hz).
<b>Nominal range:</b>	Over 2 nm.
<b>Transmission codes:</b>	63 preestablished codes.
<b>Configuration:</b>	By using minidips.

## Materials and environment

<b>Material:</b>	Marine aluminium and stainless steel.
<b>Fixings:</b>	Support with 4 hooks, 4 bolts each.
<b>Weight (only foghorn):</b>	140 kg.
<b>Watertightness degree:</b>	IP 66.
<b>Temperature range:</b>	From $-40^{\circ}$ to $55^{\circ}$ C.

## Levels

Levels	Nominal range
1 level	1 nm
2 levels	2 nm
3 levels	2 nm
4 levels	2 nm
5 levels	2 nm

## Options

Remote monitoring and control system connection.  
 ATEX version.  
 Configurable codes by PC.  
 Possibility to be installed with the MVS-20 visibility sensor.  
 Others specifications available under request.

## Optional MVS-20 visibility sensor specifications

<b>Visibility sensor range:</b>	From 10 m to 40 km.
<b>Power:</b>	From 9 to 36V d.c.
<b>Output frequency (seconds):</b>	From 10 to 300 (selectable).
<b>Serial outputs:</b>	RS-232, RS-422 and RS-485.

**I** Specifications subject to change without previous notice.

