The RBM-3 is a latest-generation (frequency-agile) Radar Beacon, which works in the marine X and S radar bands, providing an important information to mariners under whatever meteorological conditions.

The RBM-3 benefits from the latest electronic technologies like field programmable timers.

The Racon actively answers all active radars in the vicinity with a user programmed Morse code which identifies its location by appearing on the radar display.

Designed according to IALA Recommendations and IMO Standards.

**Features:**

- Response on X and S bands.
- Advanced Side-Lobe Suppression system (SLS) to better discriminate the genuine pulses to be responded.
- The length of the Morse code response matches the display range setting by programming the duration of the answer according to the pulse length before installation.
- Transmitter power: 1W in both bands.
- Configurable receiver sensitivity.
- RS-232 communication serial port.
- Configuration via PC.
- Wide power supply range.
- Low power consumption.
- Light weight.
- Maintenance free.
- ATEX version as an optional.
Specifications

Response encoding: 15 nos. Morse codes, according IMO A530. (Others under request).

Output power: Typical 1W (X and S bands).

Response delay: <700 ns (X and S bands).

Speed response (each band): 10 KHz.

Azimuth response: 360°.

Communications and programming: RS-232 serial port.

Programmable activity: 0 to 60 seconds.

Programmable idle mode: 0 to 60 seconds.

Side-Lobe Suppression (SLS): Advanced.

Temperature range: From -40° to +70°C.

Materials: Aluminium and polyamide.

Water tightness degree: IP 67.

Weight: 15 kg.

Fixings: 6 nos. Ø10 drill holes each 60° in a 254mm diameter.

Frequency range

X band: 9,300-9,500 MHz.

S band: 2,900-3,100 MHz.

Receptor sensitivity (adjustable)

X band: -50 dBm.

S band: -50 dBm.

Antenna

Broadcasting uniformity: ±2 dB in X+S bands over 360° (horizontal).

Vertical divergence: ±15°.

Polarisation

X Band: Horizontal.

S Band: Horizontal and vertical.

Accessories

Programming cable.

Power cable.

User manual.

Power supply voltage

Nominal: 12V d.c.

Minimum: 10V d.c.

Maximum: 32V d.c.

Options

Power supply range from 9 to 36V d.c.

ATEX version.

Interface module for remote monitoring.

Power consumption

Average nominal: 100 mA.

Maximum: 700 mA.

Idle: <20 mA.