

Racon Hekleo-SX

Hekleo-SX is a frequency agile Racon operating on both S and X bands. This Aids to Navigation equipment provides the indispensable service to the mariners in all weather conditions.

- Answers all active radars in the vicinity with a user programmed morse code which identify its location by appearing on the radar display
- Enters into a quiescent periode where only the waking circuits are on duty
- Programmable answer length
- Fitted with a standard common user interface which can use without any dedicated terminal
- A standard laptop can be connected to the user port to check and reprogram the Racon
- Fitted with a built-in-test which permanently scans the system
- Automatic calibration performed periodically
- Low consumption performances
- Lightweight equipment, easy to install and maintain



Design features

FREQUENCY	X band (9300-9500 MHz) / S band (2900-3100 MHz)
RECEPTION Detected pulse widths Receiver sensitivity Response delay	S and X bands 50 to 2000ns -40dBm, X band / -35dBm, S band (adjustable) 670ns and < 700ns typical
EMISSION Emitted power Response encoding Response duration	S and X bands 1W typical Programmable: 13 letters of morse code, compliant with IMO A530 (13) Selected by user according to interrogation pulse width (6 to 60 µsec)
POWER SUPPLY Voltage Standby / listening current Operating current	10 to 32 V < 20mA / <100 mA (12Vdc with 2 bands operation selected) 700 mA max
COMMUNICATIONS User port Logical outputs Logical input	RS 232 serial link for programming and testing 3 dry contacts: default X, default S, default power supply Inhibition for local radars
ANTENNAS Polarisation Diagram	Horiz. and vertical in S band / Horiz. in X band Horizontal: ± 2dB / 360° / Vertical: ± 3dB / ± 15°C
FUNCTIONALITY	Response to several interlaced radars; Suppression of sidelobes interrogations (SLS) in X and S bands; Programming of active and idle periods. Cycle time programmable : active from 0 to 60 sec. and idle from 0 to 60 sec. Quiescent cycle when no interrogation.
ENVIRONMENTAL CHARACTERISTICS	Operation temperature (2 versions): -20°C at +60°C and -40°C at +60°C Water and dust protection: IP 67
MECHANICAL CHARATERISTICS	Dimensions: diameter 28cm, height 74cm max. / Weight: 9kg Material: polyethylene body anti UV