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 period 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

### FREQUENCY

<table>
<thead>
<tr>
<th>Band</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>X band</td>
<td>9300-9500 MHz</td>
</tr>
<tr>
<td>S band</td>
<td>2900-3100 MHz</td>
</tr>
</tbody>
</table>

### RECEPTION

- Detected pulse widths: 50 to 2000ns
- Receiver sensitivity: -40dBm, X band / -35dBm, S band (adjustable)
- Response delay: 670ns and < 700ns typical

### EMISSION

- Emitted power: 1W typical
- Response encoding: programmable 13 letters of morse code, compliant with IMO A530 (13)
- Response duration: selected by user according to interrogation pulse width (6 to 60 μsec)

### POWER SUPPLY

- Voltage: 10 to 32 V
- Standby / listening current: < 20mA / <100 mA (12Vdc with 2 bands operation selected)
- Operating current: 700 mA max

### COMMUNICATIONS

- User port: RS 232 serial link for programming and testing
- Logical outputs: 3 dry contacts: default X, default S, default power supply
- Logical input: inhibition for local radars

### ANTENNAS

- Polarisation: horizontal and vertical in S band, horizontal in X band
- Diagram: horizontal ± 2dB / 360° vertical: ± 3dB / ± 15°

### 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 CHARACTERISTICS

- Dimensions: diameter 28cm / height 74cm max. / weight: 9kg
- Material: polyethylene body anti UV