

# Musson-502 SART

The Search and Rescue Radar Transponder (SART) is designed for operation within the Global Maritime Distress and Safety System (GMDSS) and provides the exact location of the survival craft or its mother ship in distress.

Many commercial ships are required by IMO regulations to carry at least 2 SARTs, which must be carried to the lifecrafts when ship abandoning.

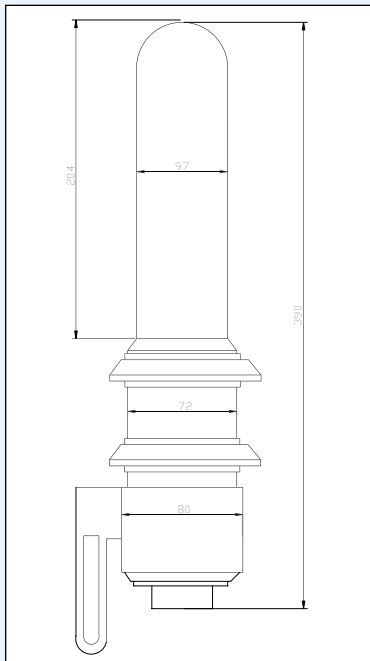
When any rescue vessel with a marine X-band radar (9.2 to 9.5GHz) comes within 7 miles of the lifecraft, the SART generates a line of 12 radial dots on its radar display, clearly indicating a distress situation and the position of the lifecraft.

The SART operates in the band of 9-Ghz and begins to transmit the emergency signal when it interrogated by a 9-GHz radar from an approaching vessel or aircraft . It is intended for use in lifecrafts, lifeboats, on vessel bulkheads etc.

Musson-502 has certificate of Russian Marine Register of Shipping and fully meets GMDSS requirement and IMO resolutions.

The SART has a visual indication of the radar signals reception . It operates for a minimum period of 96 hours in the stand-by mode plus 8 hours of continuous operation when interrogated by a radar





### Environments

- wind speed up to 100 knots
- temperature range from -20C to +50C
- temperature difference up to 45C
- ice formation

### Specifications

- Frequency range , MHz 9200 - 9500;
- Receiver sensitivity, dbm: -50;
- Power of emitted signal, mW - not less 400;
- Quantity of frequency tuning in emitted signal - 12;
- Impulse frequency, Hz - 400 ...4000
- Response duration, mseconds - 80 ... 120

### Charateristics

The SART:

- provides location by vessel radar stations within 15 miles range and by aircraft radar stations within 30 miles range.
- provides continuous operation during 96 hours in safe mode and 8 hours in response mode.
- has light indication of all operation modes;
- can be stored in -30C...+50C temperature range;
- has the console for installation in rescue vessel.

The set of the device includes:

Musson-502 SART with bracket	1
Power supply elements	1
Logbook	1

Available from



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