

SAILOR® SART II

9 GHz Search And Rescue Transponder

2014 Product Sheet

COBHAM

The most important thing we build is trust

All products from the SAILOR product programme are designed for the rough conditions at sea and the SAILOR SART II is no exception. The SAILOR SART II is small and easy to use, offering safety in critical situations.

The SAILOR SART II is a 9 GHz X-band self contained, waterproof radar transponder intended for emergency use at sea. It has been designed for assisting rescue operations in accordance with IMO, SOLAS requirements.

SAILOR SART II is used to locate a survival craft or distressed vessel by creating a series of dots on a rescuing ship's radar display.

When in standby mode the SAILOR SART II is triggered by any X-band radar within a range of approximately 8 nautical miles. The SAILOR SART II automatically transmits a response signal which is swept across the complete radar frequency band, and clearly identifies the survival craft.

The signal is made up of a stream of 12 in-line dots. At some point in each sweep, the SAILOR SART II frequency will match that of the interrogating radar and will produce a response on the radar display, thus a line of 12 dots equally spaced by about 0.64 nautical mile will be shown.

Once activated, the SAILOR SART II will remain in standby mode for over 96 hours.

A SART will only respond to a 9 GHz X-band (3 cm wavelength) radar. It will not be seen on S-band (10 cm) or other radar.

Features include:

- Ship or survival craft options
- Waterproof to 10 m
- Maintenance free
- Replaceable, 5 year battery pack
- Audio/visual indication of operation
- Built-in test facility
- Integral lanyard
- Mounting options – internal/external

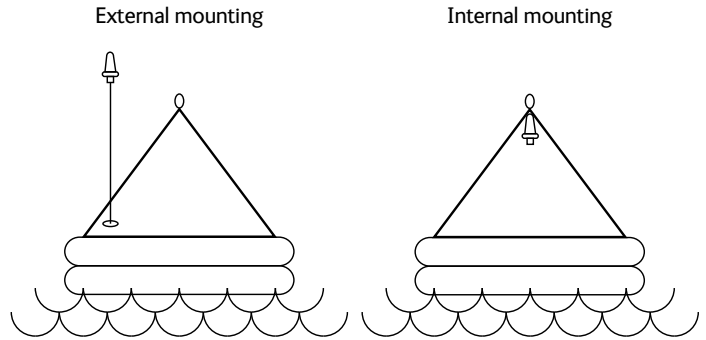
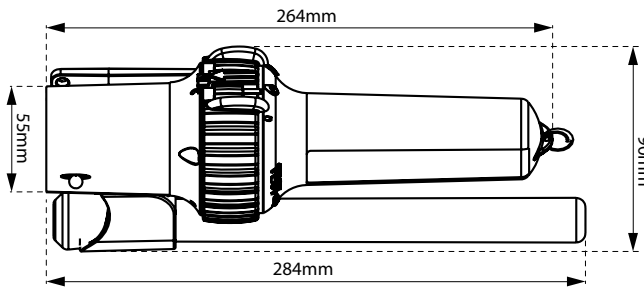
**Please note:*

The SAILOR SART II can under most flags be exchange with the SAILOR 5051 AIS-SART as the mandatory SOLAS carriage product. For detailed information, see the dedicated Product Sheet for SAILOR 5051 AIS-SART.



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GENERAL SPECIFICATIONS

Receiver Response	9.2-9.5GHz, sensitivity better than -50dBm
Transmitter Response	12 forward and return sweeps through the range 9.2-9.5GHz Nominal sweep times 7.5µs forward and 0.4µs return Minimum recovery time following excitation, less than 10µs Response reply to receiver signal less than 0.5µs
Radiated Power (ERP)	Not less than 400mW (+26dBm)
Duration of Operation	96 hours in standby condition followed by a minimum 8 hours of transmission while being continually interrogated with a pulse repetition frequency of 1kHz
Temperature Range	-20° C to +55° C operational -30° C to +65° C storage
Antenna Characteristics	Vertical beamwidth at least +/- 12.5 degree relative to the horizontal plane of the radar transponder. Azimuthal beamwidth omni-directional to +/- 2dB
Effective Antenna Height	1 meter or greater
Weight	530g (with mast and bracket)
Dimensions	264 mm long x 90 mm diameter Depth with bracket 101 mm

TRANSPORTATION

UN 3091 Class 9 hazard restrictions apply.

For further information please contact:

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