

# Samyung SART

GMDSS  
9 GHz SEARCH & RESCUE  
RADAR TRANSPONDER  
**SAR-9**

**NEW**



Complied with related  
IMO/GMDSS requirements.



**SAMYUNG ENC Co.,Ltd.**



# SAMYUNG SART(SAR-9) GMDSS 9 GHz RADAR TRANSPONDER

Samyung SAR-9 is a Radar Transponder, which is operated in 9.2~9.5 GHz(3cm) marine radar band. When a radar signal is received from a SAR craft, the SAR-9 automatically starts to transmit a response signal echoing to that Radar.

SAR craft can identify SART's location on the radar screen with 12 in-line dots.

Once activated, the SAR-9 will remain in stand-by condition for 96 hours followed by minimum 8 hours transmission.

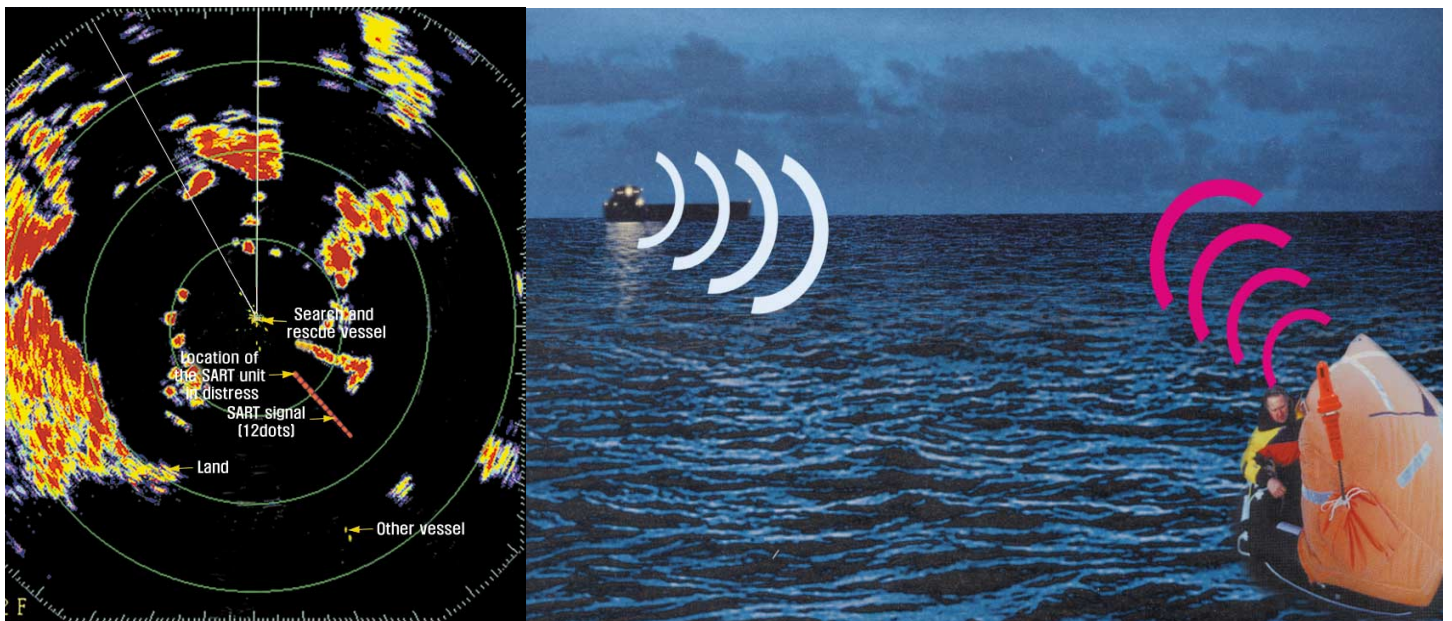
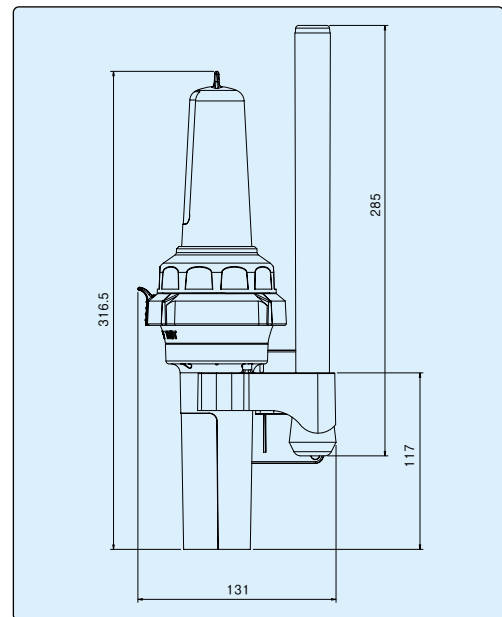
## FEATURES

- Complied with related IMO/GMDSS requirements
- Designed for reliable operation in the roughest of marine environments
- Lightweight and rugged construction is suitable for placing at liferafts.
- Complete set with a liferaft mounting kit
- Efficiently assisting ship or survival craft rescue operations

## SPECIFICATIONS

- Frequency : 9.2 ~9.5 GHz
- Polarization : Horizontal
- Vertical beam width : +12.5 Degrees
- Azimuthal beam width : Omnidirectional to  $\pm 2\text{dB}$
- Radiated power : > 400mW (+26dBm)
- Form of sweep : Sawtooth(12 sweeps)
- Pulse emission : < 100 $\mu\text{s}$
- Forward sweep time : 7.5 $\mu\text{s} \pm 1 \mu\text{s}$
- Return sweep time : 0.4 $\mu\text{s} \pm 0.1 \mu\text{s}$
- Recovery time : < 10 $\mu\text{s}$
- Response time : < 0.5 $\mu\text{s}$
- Effective sensitivity : better than -50dBm
- Duration of operation : 96 hours in standby condition followed by a minimum 8 hours of transmission while being continuously interrogated by an X-band radar with a pulse repetition frequency of 1KHz at extreme temperatures
- Battery life : 5 years
- Temperature range : Operating -20 $^{\circ}\text{C}$  to 55 $^{\circ}\text{C}$ , Storage -30 $^{\circ}\text{C}$  to 65 $^{\circ}\text{C}$

## DIMENSION



\* Specification is subject to change without pre-notice

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