

# 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.

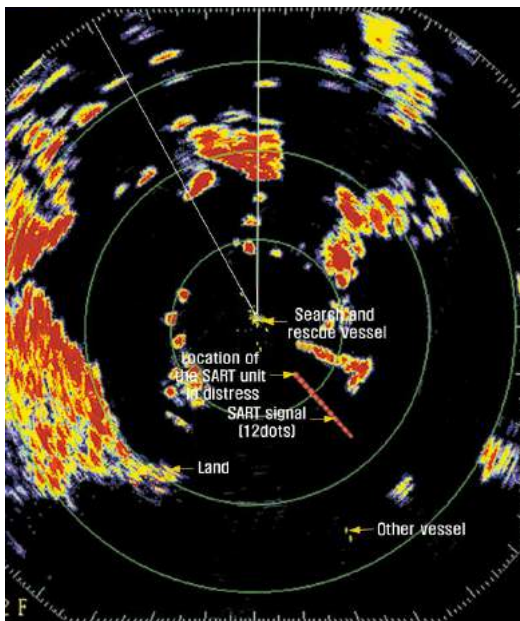
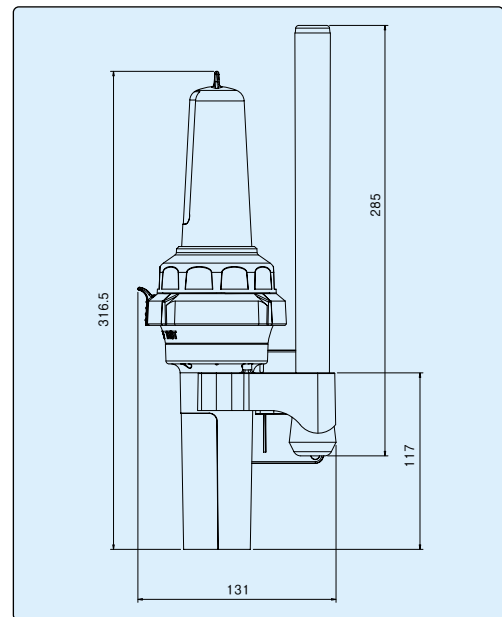
## FEATURES

- 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 :  $> 400\text{mW}$  (+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  $-50\text{dBm}$
- 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

**SAMYUNG ENC Co.,Ltd.**

Head Office : 1123-17, Dongsam-Dong, Youngdo-Gu, Busan, Korea, 606-083  
 Tel : 82-51-601-5532(Rep.) Fax : 82-51-413-4446  
 A/S Center : 65-20, 2-Ga Namhang-Dong, Yungdo-Gu, Busan, Korea, 606-032  
 Tel : 82-51-601-5570~4(Rep.) Fax : 82-51-416-5515  
 Http : //www.samyungenc.com



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