

## Simrad SA70 SART and SA70 AIS-SART Search and Rescue Transponders

Designed for use in search and rescue operations, Simrad's SA70 and SA70 AIS-SART will pinpoint the location of a vessel in distress and give the exact location to nearby ships, SAR vessels and aircrafts.

### SA70 AIS-SART

Simrad's SA70 AIS-SART gives the exact location of the distress with GPS precision and position updates every minute. Searching ships or helicopters will receive the position data in an AIS message.

The SA70 AIS-SART has an operating range of up to 10 nautical miles from a vessel and more than 40 nautical miles from an airborne AIS receiver.

The built-in GPS and superior AIS position accuracy of the SA70 AIS-SART ensures a more effective and less time consuming SAR operation.

Both models have an operating battery life of 96 hours and come standard with bulkhead bracket for on board the vessel, and pole or bracket mount options for lifeboat or life raft. These easy mounting options, together with simple release and easy activation in an emergency situation, make these small and compact SART's the obvious choice when safety of life is the number one priority.

### SA70 SART

Simrad's SA70 9GHz search and rescue radar transponder gives the location of the distress on an X-band radar display. When the SART is interrogated (hit) by a radar signal, it will immediately start to transmit and be detected on the radar screens of nearby vessels. The SA70 has an operating range of 10 nautical miles from a vessel and up to 30 nautical miles from an airborne response unit.

### KEY FEATURES

- Easy mounting options: bulkhead bracket on board vessel, pole or bracket mount in a lifeboat or life raft providing flexible installation options
- Equipped with an LED and a built in buzzer to indicate operation for peace of mind
- Non-hazardous battery which can be replaced on board — no transport restrictions
- Easy to release and activate in an emergency situation — easy to operate under stress/in freezing conditions
- Light weight and compact design — one of the smallest on the market
- Mandatory carriage equipment for all ships of 300 gross tonnage and upwards
- IMO/SOLAS/GMDSS compliant
- IMO/MED/FCC approved
- 5 year warranty — global service network to assist wherever you are in the world



Technical specifications overleaf.



# Technical Specifications

► SA70 SART AND SA70 AIS-SART

SPECIFICATIONS	SA70 SART	SA70 AIS-SART
Part number	000-10728-001	000-10729-001
Weight	482 g	450 g
Material housing	Polycarbonate with 10% glass fibre	
Frequency	X-band (3 cm) (9.2 - 9.5 GHz)	161.975 and 162.025 (AIS 1 and 2)
Radiated power	> 400 mW e.i.r.p (+26 dBm)	Minimum 1W ERP (+30 dBm)
Time to GPS fix	N/A	Typically less than 2 minutes when operated in an area with good satellite coverage.
Sweep type	12 sweep sawtooth type Forward 7.5 µs ± 1µs Return 0.4 µs ± 0.1 µs starts with return sweep	N/A
Receive sensitivity	Better than -50 dBm e.r.s	N/A
Position update	N/A	Every minute
Signalling	Automatic on detection of x-band pulse radar	Broadcasts position message on activation 8 bursts every minute. Broadcast safety message is "SART ACTIVE"
Response delay	Max 0.5 µs	
Antenna pattern	Horizontal polarisation Omnidirectional radiation in the horizontal plane Greater than ± 2.5 degrees elevation angle in the vertical plane	Vertical polarization
Antenna height	According to SOLAS IV/8.3.1	Place at least 1m above sea/ground level
Indicators	Visual and audible alarm	Visual and audible alarm Transmitter and GPS system status
Temperature range	Operating: -20°C to +55°C, Storage: -30°C to +65°C	
Battery	Lithium, non hazardous battery for safe and unrestricted transportation 5 Year maintenance kit, serviceable on board	
Operating life	96 hours standby + 8 hours continuous operation when activated by a radar with 1 kHz prf at -20°C.	Minimum 96 hours
Standards	IEC 61097-1 IEC 60945 IMO A.802 (19) IMO A.694 (17)	MSC.246(83) ITU-R M1371 IEC 61097-14 IEC 60945 SOLAS convention
WARRANTY	5 years	
ACCESSORIES (NOT INCLUDED)		
000-10731-001	Lifeboat bracket	
000-10732-001	Life raft mounting pole	



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