



Search and Rescue Transponder Features, requirements and IEC standards



SARTs use Pre Announced Time Division Multiple Access (PATDMA) as they continuously transmit but don't receive.

Once activated, the SART sends its position and heading eight times in a minute. The device sends the information this often to ensure that the life raft is at the peak of the wave on at least one of the transmissions, maximising range. SARTS also send the SART safety message 'SART ACTIVE' every four minutes.

SARTs do not receive any form of data, but keep transmitting data. They are designed to work in an emergency situation.

Requirements

- Storage life - 5 years
- Operating life - 96 hours minimum
- 1 LED indicating activation and test modes
- Break off cover protects activation button
- 8 times per minute reporting rate once activated
- Safety message transmitted every 4 minutes
- 1 transmitter
- 1W output power
- 1m pole
- 10m of buoyant rope
- mounting bracket
- Optional bag

Standards

IEC61097-14 Edition 1 IEC standard, AIS search and rescue transmitter
IEC60945 Edition 4 IEC standard, environmental requirements
ITU-R M.1371-4 Universal AIS Technical Characteristics
IEC61108-1 IEC standard, GPS receiver equipment