



Tron SART20

RADAR TRANSPONDER



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▶ Tron SART20 RADAR TRANSPONDER

Tron SART20 is designed for use in search and rescue (SAR) operations. A radar transponder gives the location for any nearby vessel and aircraft with X-band radar. Radar transponder is designed for use in lifeboats and liferafts. Easy mounting in bulkhead bracket onboard the vessel, easy to release and activate in an emergency situation. Various installation devices available as options. MED and other approvals available. Mandatory carriage equipment for all ships of 300 gross tonnage and upwards, according to SOLAS III/6.2.2, III/26.2.5 and IV/7.1.3.

SPECIFICATIONS TRANSPONDER

Weight	450 g
Material housing	Polycarbonate with 10% glass fibre
Frequency	X-band (3 cm) (9.2 - 9.5 GHz)
Radiated power	> 400 mW e.i.r.p (+26 dBm)
Sweep type	12 sweep sawtooth type
	Forward 7.5 $\mu\text{s} \pm 1\mu\text{s}$
	Return 0.4 $\mu\text{s} \pm 0.1 \mu\text{s}$ starts with return sweep
Receive sensitivity	Better than -50 dBm e.r.s
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
Antenna height	According to SOLAS IV/8.3.1
Indication	Visual and audible alarm
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.
Standards	IEC 61097-1 IEC 61097-1 IEC 60945 IMO A.802 (19)

ACCESSORIES

Brackets	Bulkhead bracket Lifeboat bracket
For life raft	Life raft mounting pole Neoprene bag and strengthened lanyard

WARRANTY

5 years



Agent/Distributor:

Jotron AS reserves the right to change the design and/or specifications at any time without prior notice.

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