Mackay Marine

JOTRON – TRON 60S EPIRB/TRON 60GPS GPIRB
JOTRON – TRON AIS-SART/TRON SART20

JOTRON
TRON 60S EPIRB
TRON 60GPS GPIRB

Tron 60S/GPS is a compact and tamper-proof GMDSS EPIRB. This EPIRB complies to IMO, SOLAS regulation. With a high-intensity LED located at the top of the antenna, Tron 60S/GPS has optimal visibility. The EPIRB is supplied either with manual or float-free bracket.

Technical Specifications

Battery:	Lithium metal, 12V/2900 mAh 5 year service life
Dimensions:	
• Height:	340 mm
• Diameter:	128 mm
Weight:	680 g
Materials:	Glass reinforced Polycarbonate
Compass safe distance:	0.85 m
Temperature range:	-20°C to + 55°C (operating) -30°C to +70°C (storage)
Operating life:	Minimum 48 hours at -20°C
Antenna:	Omnidirectional
Cospas-Sarsat Transmitter	
• Frequency:	406.037 MHz
• Output power:	5W
Homing transmitter	
• Frequency:	121.500 MHz
• Output power:	Up to 100 mW
Protocols:	Maritime, Serialized, Radio Call sign
Navigation device:	56 Channel GPS Receiver (Tron 60GPS)

Accessories

Brackets:	Float-free: FB-60 Manual: MB-60
Battery:	Replacement kit
Hydrostatic release:	HRU kit

Warranty 5 years

JOTRON
TRON AIS-SART/SART20
GMDSS SEARCH AND RESCUE TRANSMITTER

- Adopted by IMO RES MSC. 256 (84) as an alternative to 9GHz SART
- Unique AIS technology contributes to a more effective and less time-consuming SAR operation, due to superior position accuracy
- The AIS-SART is detected on both AIS Class A and B
- Small and compact
- Jotron Tron AIS-SART use the same acessories as the Tron SART20 (Bulkhead bracket, pole, life-boat bracket and neoprene protection bag)
- Proved performance:
- Up to 10 nm from a SOLAS ship with AIS class A transponder
- Up to 40 nm from a SAR helicopter (altitude 1000 ft)
- Up to 130 nm from a SAR aircraft (altitude 20000 ft)

Technical Specifications	AIS-SART	SART20
Weight:	450g (16 oz)	482 g
Height:	251 mm (9 ⅞')	251 mm (9 ⅞')
Material housing:	Glass-reinforced Polycarbonate	Glass-reinforced Polycarbonate
Frequency:	161.975 and 162.025 MHz (AIS 1 and 2)	X-band (3 cm) (9.2 - 9.5 GHz)
Radiated power:	Minimum 1W ERP (+30 dBm)	> 400 mW e.i.r.p (+26 dBm)
Time to GPS fix:	Typically less than 2 min when operated in an area with good satellite coverage.	-
Signaling:	Broadcasts position message, 8 bursts every minute. Broadcast safety message; "SART ACTIVE"	-
Position update:	Every minute	-
Sweep type	-	12 sweep sawtooth type Forward 7.5 µs ± 1µs Return 0.4 µs ± 0.1 µs starts with return sweep
Receive sensitivity	-	Better than -50 dBm e.r.s
Response delay	-	Max 0.5 µs
Antenna pattern:	Vertical polarization	Horizontal polarisation Omnidirectional radiation in the horizontal plane Greater than ± 2.5 degrees elevation angle in the vertical plane
Antenna height:	Place at least 1m (3.3 ft) above sea/ground level	Place at least 1m (3.3 ft) above sea/ground level
Indicators:	Transmitter and GPS system operating	Visual and audible alarm
Temperature range:	Operating: -20°C to +55°C (-4°F to +131°F) Storage: -30°C to +65°C (-22°F to +149°F)	Operating: -20°C to +55°C Storage: -30°C to +65°C
Battery:	Lithium, non hazardous battery for safe and unrestricted transportation	Lithium, non hazardous battery for safe and unrestricted transportation 5 year maintenance kit, serviceable on board
Operating life:	Minimum 96 hours	96 hours standby + 8 hours continuous operation when activated by a radar with 1 kHz prf at -20°C.
Standards:	MSC.246(83), ITU-R M.1371, IEC 61097-14, IEC 60945, SOLAS convention	IEC 61097-1 IEC 60945 IMO A.802 (19) IMO A.694 (17) MSC.247(83)

Accessories

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

Warranty 5 years