

E3/ Rescue 406 EPIRB Technical Specification

General

Approved to	COSPAS-SARSAT T.001 class1 RTCM SC110-STD Version 2 class 1 ETS 300 066 IEC 1097-2
Complies with	EN 60945 Part 80 of FCC regulations
Operating temperature range	-40°C to +55°C
Storage temperature range	-50°C to +70°C
Operational life	48 hours minimum at -40°C
Battery type	9V lithium sulphur dioxide
Battery expiry	6 years from date of manufacture

Electrical

406.025MHz transmitter

Frequency	406.025MHz \pm 5KHz
Output power	5W \pm 2dB
Data encoding	Bi-phase L
Modulation	Phase modulation: 1.1 rads \pm 0.1 rads
Transmission time	440ms \pm 1%
Repetition period	50 secs \pm 2.5 secs

121.5MHz homing transmitter

Frequency	121.5MHz \pm 3KHz
Output power	50mW \pm 3dB PERP
Transmit duty cycle	Continuous
Modulation format	3K20A3X
Modulation frequency sweep	1300Hz to 350Hz
Modulation duty cycle	38% \pm 5%
Sweep repetition rate	3Hz \pm 1Hz
Sweep direction	Programmable UP or DOWN

Antenna

Type	Flexible, vertical whip
Characteristics	Vertically polarised, omni-directional

Optical Homer

Type	Xenon discharge tube
Flash rate	20 to 23 flashes per minute
Light output	> 0.75 candela over \geq 75% of the horizontal plane

External Interfaces

Programming interface
Manual activation

Automatic activation

Self test

Infra-red link via RS232 port on a PC.
Sealed membrane switch. Protected by sliding cover.

Sea water switch contacts. Activation within 5 seconds of immersion.

Sealed membrane switch. Press and hold to activate self test. Confirmation of successful self test by 3 flashes of strobe light.

Physical characteristics

Weight
Height
Width

730 grams nominal
210mm to base of antenna.
110.5mm at maximum