

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