



GPS PERSONAL LOCATOR BEACON

MT610G

The MT610G is a super-compact, lightweight PLB, offering an impressive 7-year battery life and a 6-year warranty.

Featuring a 'Non-Hazmat' battery pack for ease of transport, the MT610G ensures you remain safe and connected, wherever life takes you.

The MT610G has been designed, engineered, and manufactured in Australia, to provide the outdoor adventurer or lone worker with a GPS PLB solution that is compact, easy-to-use, and affordable.

Featuring an integrated 72 channel GPS receiver, zero warm-up time, high intensity LEDs, IP68 Ingress Protection and an inherently buoyant design, the compact size of the MT610G has not compromised the safety features included. The MT610G is designed to meet and exceed the latest international standards and is Cospas-Sarsat Class 2 certified.

GME is the only Australian manufacturer of emergency beacons and has been designing, engineering, and manufacturing EPIRBs and PLBs for over 30 years. In that time our beacons have been used to save hundreds of lives around the world.

FEATURES

Compact, Lightweight Design

IP68 Ingress Protection

Integrated 72Ch GPS Receiver

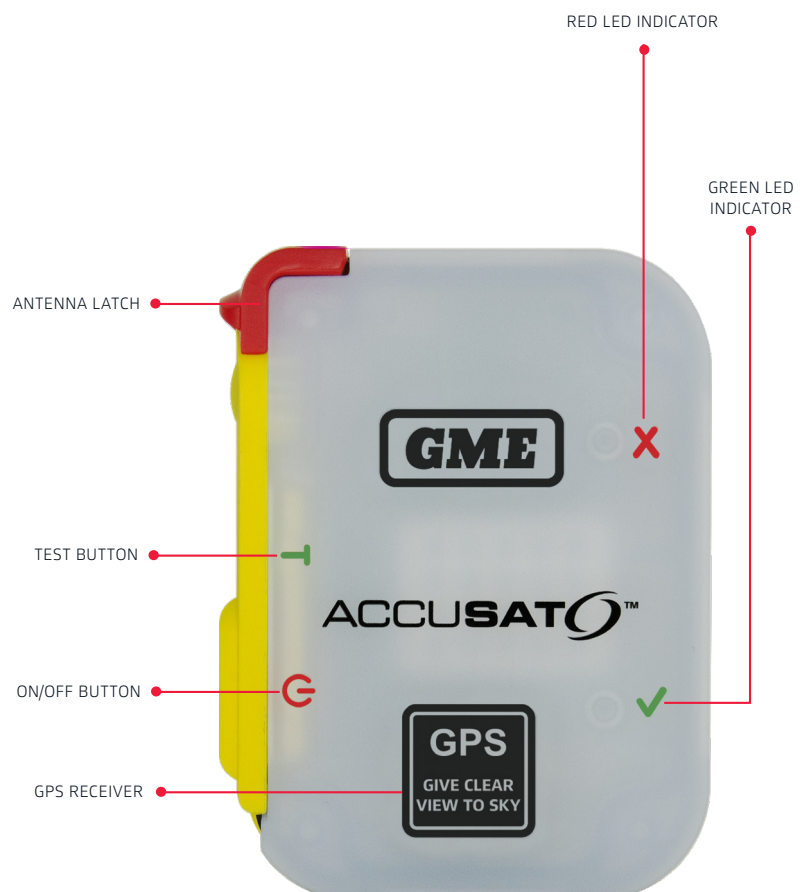
7 Year Battery Life

121.5MHz Homing Transmitter

Cospas-Sarsat Certified (Class 2)

Easily Deployed in an Emergency

Inherently Buoyant



6 YEAR WARRANTY

Technical Specifications

MODES OF OPERATION	
Activated	UHF (406) and VHF (homer) complete with high intensity light.
Self-Test	Comprehensive internal diagnostics with visual operator feed-back. UHF test message (inverted synchronisation compatible with portable beacon testers).
GPS Self-Test	Comprehensive diagnostics of GPS circuitry and real-time position acquisition test with visual operator feedback.
OPERATION	
Activation	2-step activation process.
Duration	In excess of 24 hours at -20°C. Longer at higher ambient temperatures.
Transmission	121.5 MHz and 406 MHz
Delay	50 seconds (+/- 2.5 sec) to deactivate prior to distress transmission.
Warm Up	None required
VHF	121.5 MHz, 50 mW ±3 dB, swept tone AM (analogue)
UHF	406.03 MHz, 5 W ± 2 dB, PSK (digital)
Light	> 20 flashes/minute High intensity white LED
COSPAS-SARSAT	
Certification	Certified to C/S T.001 (Class 2) requirements.
Operation Protocol	Supports Standard Location and National Location operation protocols.
Repetition Period	50 seconds mean, digitally generated randomization.
BATTERY	
Useful Battery Life	7 years**
Replacement Method	By service centre or factory only. Not user-replaceable.
Battery Chemistry	LiMnO ₂ (0.6 g Lithium per cell)
Battery Configuration	2 electronically isolated batteries, each consisting of 2 cells type CR123A

PHYSICAL	
Operating	-20 to +55°C
Storage	-30 to +70°C
Weight	160g ± 2g
Compass Safe Distance	1 m (3.3 ft)
Dimensions (mm)	88 (h) x 66 (w) x 36 (d)
Buoyant	Will float in fresh/salt water. (RTCM Cat 1)
Waterproof	IP68 (10m of salt-water for 1h)
Materials	High visibility yellow chassis with translucent cap. UV stabilised high-impact plastic chassis with energy absorption over-moulded bumpers.
GPS/GALILEO RECEIVER	
Type	Ultra-high sensitivity GPS L1C/A, Galileo E1B/C
Channels	72-channel, GPS/GALILEO Search Engine.
Antenna	Ceramic Patch Antenna.
Acquisition	Cold start 30 seconds typical. Hot start 1 second typical.
OTHER FEATURES	
Transport	Meets UN requirements for transport as non-hazardous cargo onboard passenger aircrafts.
Antenna	SUS631 Hardened Stainless Steel.
Optional Accessories	Protective carry pouch with aluminum carabiner.

* Standard factory setting, subject to national requirements. Distributor re-programmable via optical data interface. Specifications are subject to change without notice or obligation.

** Prolonged storage at temperatures higher than 20°C would result in reduced useful life of the battery.

REFERENCES

- https://www.sarsat.noaa.gov/cospas_sarsat.html
- <https://cospas-sarsat.int/en/>

