GNSS PERSONAL LOCATOR BEACON
MT620GR

The MT620GR is a super-compact, lightweight PLB, offering an impressive 7-year battery life and a 6-year warranty.

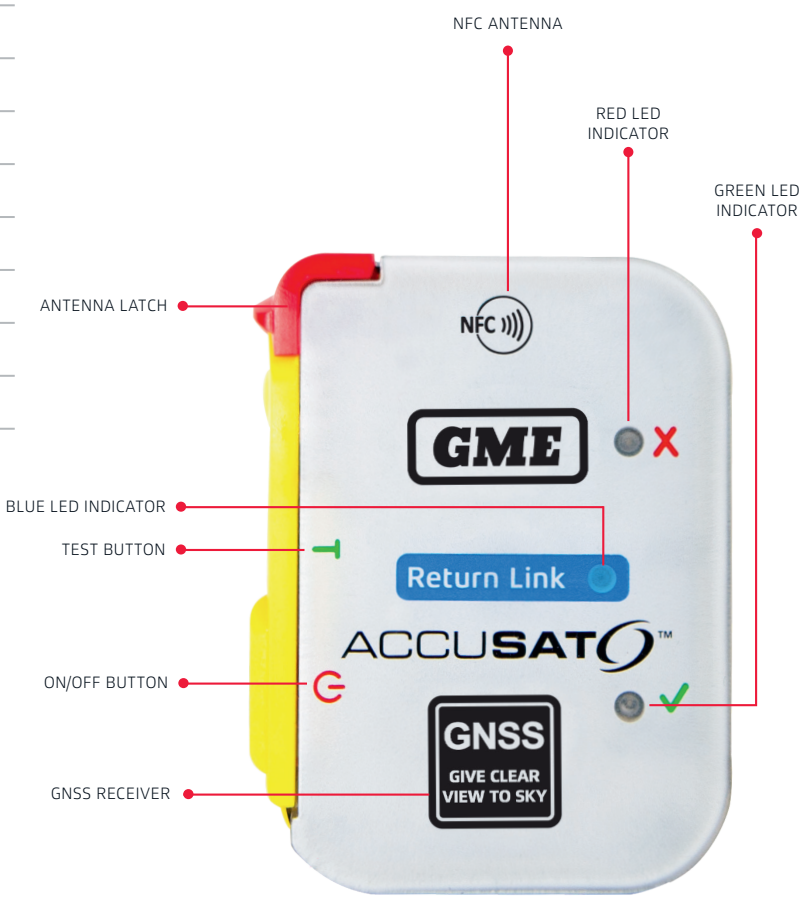
The MT620GR has been designed, engineered, and manufactured in Australia, to provide the outdoor adventurer or lone worker with a GNSS PLB solution that is compact, easy-to-use, and affordable.

Featuring an integrated GNSS receiver, zero warm-up time, high intensity LEDs, IP68 Ingress Protection and an inherently buoyant design, the compact size of the MT620GR has not compromised the safety features included. The MT620GR is designed to meet and exceed the latest international standards and is Cospas-Sarsat Class 2 certified. Effortlessly monitor Battery Status, GNSS and PLB self-tests, and more — all in the ACCUSAT Connect App.

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 countless lives around the world.

FEATURES

- Return Link Service (RLS)
- Compact, Lightweight Design
- IP68 Ingress Protection
- Integrated GNSS Receiver
- 7 Year Battery Life
- 121.5 MHz Homing Transmitter
- Cospas-Sarsat Certified (Class 2)
- Easily Deployed in an Emergency
- Inherently Buoyant
- GME Accusat Connect App (Android and iPhone)
- Near Field Communication (NFC) technology



ACCUSAT CONNECT

AUSTRALIAN MADE

6 YEAR WARRANTY

Technical Specifications*

MODES OF OPERATION	
Activated	UHF (406) and VHF (homer) complete with high intensity light and buzzer.
Self-Test	Comprehensive internal diagnostics with visible and audible operator feed-back. UHF test message (inverted synchronisation compatible with portable beacon testers).
GNSS Self-Test	Comprehensive diagnostics of GNSS circuitry and real-time position acquisition test with visible and audible operator feed-back.
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	406.031 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 Return Link Location protocol.
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 Panasonic cells type CR123A
Battery Pack	P/N 080028
Battery Pack Manufacturer	Orient Technology (S) Pte Ltd

PHYSICAL	
Operating	-20˚C to +55˚C (-4˚F to +131˚F)
Storage	-30˚C to +70˚C (-22˚F to +158˚F)
Weight	160g ± 2g
Compass Safe Distance	1 m (3.3 ft)
Dimensions (mm)	88 (h) x 66 (w) x 37 (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.
GNSS/GALILEO RECEIVER	
Type	Ultra-high sensitivity GPS L1C/A, Galileo E1B/C
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/