TYPE APPROVAL CERTIFICATE

for a 406-MHz Distress Beacon for use with the Cospas-Sarsat Satellite System

Certificate Number: 392

Manufacturer:	GME Pty Ltd, Australia
Beacon Type:	PLB
Beacon Model:	MT610G
Test Laboratory:	TÜV SÜD, Fareham, UK
Dates of Test:	August 2019 – December 2020

Details of the beacon features and battery type are provided overleaf.

The Cospas-Sarsat Council hereby certifies that the 406 MHz Distress Beacon Model identified above is compatible with the Cospas-Sarsat System as defined in documents:

C/S T.001   Specification for Cospas-Sarsat 406 MHz Distress Beacon, Issue 4 – Revision 4, February 2019

C/S T.007   Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard, Issue 5 – Revision 3, February 2019

Original **TAC 340** issued on **12 April 2021**   **TAC 340** amended on **5 August 2021**
First extension **TAC 368** issued on **31 October 2022**
Second extension **TAC 392** issued on **19 February 2024**

Steven W. Lett,
Head of Cospas-Sarsat Secretariat

NOTE, HOWEVER:

1. This certificate does not authorize the operation or sale of any 406 MHz distress beacon. Such authorization may require type acceptance by national administrations in countries where the beacon will be distributed and may also be subject to national licensing requirements.

2. This certificate is intended only as a formal notification to the above identified manufacturer that the Cospas-Sarsat Council has determined, on the basis of test data of a beacon submitted by the manufacturer, that 406 MHz distress beacons of the type identified herein meet the standards for use with the Cospas-Sarsat System.

3. Although the manufacturer has formally stated that all beacons identified with the above model name(s) will meet the Cospas-Sarsat specification referenced above, this certificate is not a warranty and Cospas-Sarsat hereby expressly disclaims any and all liability arising out of or in connection with the issuance, use or misuse of the certificate.

4. This certificate is subject to revocation by the Cospas-Sarsat Council should the beacon type for which it is issued cease to meet the Cospas-Sarsat specification. A new certificate may be issued after satisfactory corrective action has been taken and correct performance demonstrated in accordance with the Cospas-Sarsat Type Approval Standard.

5. Cospas-Sarsat type approval testing requirements only address the electrical performance of the beacon at 406 MHz. Conformance of the beacon to operational and environmental requirements is the responsibility of national administrations.

6. This certificate authorizes the use of the registered name mark "Cospas-Sarsat" and of registered trademarks for the Programme's logos, for labelling, instruction materials, and marketing of the 406-MHz beacon model identified, but not for other marketing or sales purposes (i.e., not for general uses beyond this specific beacon model).

Beacon Model:	MT610G
Manufacturer:	GME Pty Ltd, Australia
Operating temperature range:	-20°C to +55°C (Class 2)
Battery Details:	Lithium Manganese Dioxide, Panasonic CR-123A, 2 packs each comprising two 2/3 "A"- size cells, battery pack P/N: 080028, battery pack replacement: 7 years
Operating Lifetime:	24 hours
Transmit Frequency:	406.031 MHz

Beacon Model Features:

- 121.5 MHz homer-transmitter (power 14 dBm, homer duty cycle 96%, swept-tone duty cycle 36%);
- Strobe light (duty cycle - 20 flashes/minute);
- Internal GPS/Galileo receiver, Ublox model MAX-M8C;
- Self-test mode, one burst of 520 ms;
- GNSS Self-test mode;
- Integrated antenna;
- Manual beacon activation;
- Messages of long format;
- Beacon was tested in PLB configurations.

Approved Beacon Message Protocols: Beacon is approved for encoding with the message protocols indicated with "Yes" and black text below:

USER PROTOCOLS		USER-LOCATION PROTOCOLS		LOCATION PROTOCOLS [2]	
No	Maritime with MMSI	No	Maritime with MMSI	Yes	Standard Location: EPIRB with MMSI
No	Maritime with Radio Call Sign	No	Maritime with Radio Call Sign	Yes	Standard Location: EPIRB with Serial Number
No	EPIRB Float Free with Serial Number	No	EPIRB Float Free with Serial Number	Yes	Standard Location: ELT with 24-bit Address
No	EPIRB Non-Float Free with Serial Number	No	EPIRB Non-Float Free with Serial Number	Yes	Standard Location: ELT with Aircraft Operator Designator
No	Radio Call Sign	No	Radio Call Sign	Yes	Standard Location: ELT with Serial Number
No	Aviation	No	Aviation	Yes	Standard Location: PLB with Serial Number
No	ELT with Serial Number	No	ELT with Serial Number	Yes	National Location: EPIRB
No	ELT with Aircraft Operator and Serial Number	No	ELT with Aircraft Operator and Serial Number	Yes	National Location: ELT
No	ELT with Aircraft 24-bit Address	No	ELT with Aircraft 24-bit Address	Yes	National Location: PLB
No	PLB with Serial Number	No	PLB with Serial Number	No	RLS Location: EPIRB/ELT/PLB
No	National (Short Format Message)			No	ELT(DT) Location with Serial Number
No	National (Long Format Message)			No	ELT(DT) Location with Aircraft Operator and Serial Number (S/N)
				No	ELT(DT) Location with Aircraft 24-bit Address
				No	ELT(DT) Location with Serial Number and 3LD in PDF-2
				No	ELT(DT) Location with 24-bit Address and 3LD in PDF-2