



TYPE APPROVAL CERTIFICATE

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

Certificate Number: 394

Manufacturer: GME Pty Ltd, Australia
Beacon Type(s): Non-Float Free EPIRB
Beacon Model(s): MT605G
Test Laboratory: TÜV SÜD, Fareham, UK
Dates of Test: January 2023 – January 2024

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 – Rev. 10, November 2022

C/S T.007 Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard, Issue 5 – Rev. 9, November 2022

Original TAC 394 issued on 9 May 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: MT605G

Manufacturer: GME Pty Ltd, Australia

Operating temperature range: -20°C to +55°C

Battery Details: Lithium Iron Disulfide, Energizer L91, four packs of two “AA”- size cells connected in series, battery pack P/N 080032, battery pack replacement period: 10 years

Operating Lifetime: 48 hours

Transmit Frequency: 406.031 MHz

Beacon Model Features:

- 121.5 MHz auxiliary radio locating device (power of 25 mW, duty cycle of 52%, swept tone duty cycle of 36%);
- Strobe light (brightness of 0.75 cd, flash rate of 20 flashes/minute);
- Internal receiver (GPS/Galileo, uBlox model MAX-M10S, internal passive antenna);
- Encoded position data update interval of 5 minutes;
- Self-test mode, one burst of 520 ms;
- GNSS Self-test mode, one burst of 520 ms;
- Integral transmitting 406 MHz/121.5MHz antenna;
- Manual beacon activation;
- Messages of long format;
- Beacon was tested in test configurations, corresponding to EPIRB floating in water, or on deck or in a safety raft.

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
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	No Standard Location: ELT with 24-bit Address
No EPIRB Non Float Free with Serial Number	No EPIRB Non-Float Free with Serial Number	No Standard Location: ELT with Aircraft Operator Designator
No Radio Call Sign	No Radio Call Sign	No Standard Location: ELT with Serial Number
No Aviation	No Aviation	No 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	No National Location: ELT
No ELT with Aircraft 24-bit Address	No ELT with Aircraft 24-bit Address	No National Location: PLB
No PLB with Serial Number	No PLB with Serial Number	
No National (Short Format Message)		
No National (Long Format Message)		