

GME**EPIRB**

MT400



406 MHz Emergency Position Indicating Radio Beacon

MANUALLY ACTIVATED

Special
Mention in the
'Life Saving and
Safety Equipment'
category at METS 2003,
Amsterdam



- Ground breaking, Patent Pending microprocessor based design delivering unparalleled performance and value.
- Zero warm-up Digital Technology, many other beacons can take 15 minutes to reach optimum operating temperature.
- High reliability solid state strobe replacing old fashioned xenon tubes.
- Rugged, lightweight, easy-to-mount compact design.
- Quick and easy test facility with Audio Alert.
- Includes quick release mounting bracket.
- 5 Year Warranty



www.gme.net.au



MT400

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The GME MT400 406 MHz EPIRB is the culmination of three years extensive research and development by GME engineers. The end result being a radical new design concept that is not only a significant improvement on existing beacon performance, but dramatically slashes the cost of 406 MHz EPIRB ownership.

Advantages of a 406 MHz EPIRB over the older analogue EPIRBs include worldwide coverage, position location accuracy to within 5 kms, and a more stable transmitted signal resulting in minimum detection time. Most importantly the addition of a unique digitally encoded message, which provides Search and Rescue authorities with vital information including the country of beacon registration and the identification of the vessel in distress, thus greatly reducing the incidence of false alerts and the unnecessary deployment of valuable rescue resources. An auxiliary homing transmitter is included in the MT400 to enable suitably equipped search and Rescue forces to home in on the distress beacon.



COSPAS-SARSAT is the international organisation that operates a series of satellites in

low altitude and geostationary orbits for search and rescue. The Council of the COSPAS-SARSAT announced in 2000 that it would be phasing out satellite processing of emergency beacons operating in the 121.5/243 MHz range and encouraging users to adopt 406 MHz beacons.

Users of the 121.5/243 MHz beacons will have until February 2009 to complete the switch over. The use of 400 MHz distress beacons will minimise the problems with false alerts being received by rescue coordination centres around the world.

MANUALLY ACTIVATED 406/121.5 MHz BEACON

SPECIFICATIONS

MODES OF OPERATION

Activated: UHF (406) and VHF (homer) complete with high intensity strobe and audible activation alert.

Self test: Comprehensive internal diagnostics with visual and audible operator feedback. UHF test message (inverted synchronisation compatible with portable beacon testers).

OPERATION

Activation: Manually by operator.

Duration: 48 hours minimum.

Transmission: 121.5 and 406 MHz

Delay: Signals commence ~ 60 seconds after activation.

Warm Up: None required (due to digital frequency generation).

VHF: 121.5 MHz, 50 mW ± 3 dB, swept tone AM.

UHF: 406.028 MHz*, 5 W ± 2 dB, PSK (digital)

Strobe: 20 flashes/minute at greater than 0.75 cd effective intensity.

COSPAS-SARSAT: Certified to C/S T.001 (Class 2) requirements.

Aus/NZ Standard: AS/NZS 4280 approved.

UHF-Protocol/Data: Serial User*.

Repetition Period: 50 s mean, digitally generated randomization.

VHF: Satellite compatible phase coherent.

*Standard factory setting. Dealer programmable via external interface to operate over 406.000 MHz to 406.100 MHz. Other protocols available.

BATTERY

Replacement Period: Prior to expiry date marked on case.

Replacement Method: Service centre, or factory only (non-user replaceable).

Chemistry: LiSO₂ (2.4 g Lithium per cell).

No./Size: 2 D size cells.

PHYSICAL

Operating: -20°C to +55°C.

Storage: -30°C to +70°C.

Weight: 535 g (plus 98 g for bracket).

Compass Safe Distance: 0.1 m min. from magnetic navigational device.

Dimensions: 260 mm (H) x 102 mm (W) x 83 mm (D) max. when stowed in bracket.

Materials: UV stabilized plastic chassis.

Performance: IEC 61097; IEC 60945; AS/NZS 4280.1; ETSI EN 300 066

OTHER FEATURES

Retention Lanyard: Buoyant type approximately 5.5 metres.

Reflector: SOLAS retro-reflective tape encircling unit above waterline.

Solid-state Strobe: High reliability solid state 3 emitter design exceeds IMO requirements.

Antenna: Flexible self straightening stainless steel design.

Bracket: Quick release mechanism (manual). Retained by four (4) vessel fixing points.

Specifications are subject to change without notice or obligation.

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