DESIGNED WITH GME'S **PATENTED MICROPROCESSOR TECHNOLOGY**

MT403 SERIES 406 MHz EPIRBs

MT403 manual and water activated class 2 EPIRB
MT403G manual and water activated class 2 EPIRB with GPS
MT403FF auto release (float free) class 2 EPIRB
MT403FG auto release (float free) class 2 EPIRB with GPS

- Unrivalled in technology, reliability and price.
- Ground breaking patent pending microprocessor based design delivers unparalleled performance and value.
- Zero warm-up digital technology, many other beacons can take up to 15 minutes to reach optimum operating temperature.
- High reliability solid state strobe.
- Rugged, lightweight, simple to install compact design.
- Easy, in-built self-test facility with audible alert confirms correct operation.
- **MT403/MT403G** – Automatically activates on immersion in water (when removed from the bracket) or can be manually activated if desired.
  MT403FF/MT40FG – Enclosed in a UV resistant float free housing that automatically deploys and activates the EPIRB when submersed to a depth of 2–4 metres.
- **MT403G and MT403FG** incorporate quick start 16 channel GPS receivers for faster more precise location.
- Antenna releases automatically when the unit is removed from the quick-release bracket or housing.
- 121.5 MHz homer.
- Industry first 6 year warranty, 6 year battery replacement period.

OPERATION MODES	MT403	MT403FF	MT403G	MT403FG
Activated	UHF (406 MHz) and VHF (121.5 MHz Homer) complete with high intensity strobe and audible alert.			
UHF/VHF Self Test	Comprehensive internal diagnostics with visual and audible operator feed-back. UHF test message (inverted synchronisation compatible with portable beacon testers).			
GPS Self Test	N/A	N/A	User selectable GPS signal acquisition test function	
OPERATION				
Activation	Water or manual	Auto release	Water or manual	Auto release
Duration	48 hours minimum			
Transmission	406 MHz and 121.5 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	406.037 MHz, 5 Watts +/- 2 dB, PSK (Digital)			
Strobe	Solid Sate IMO & RTCM Complaint - > 0.75 Candela effective intensity			
GPS				
GPS Receiver	N/A	N/A	16 Channel	16 Channel
GPS Antenna	N/A	N/A	Dielectrically loaded Quadrifiler Helix	
Acquisition - Cold Start	N/A	N/A	w< 90 seconds typically	
Acquisition - Hot Start	N/A	N/A	3.5 seconds typically	
Position	N/A	N/A	< 100 metes typically	
COSPAS-SARSAT				
UHF-Protocol/Data	All approved EPIRB short protocols		All approved EPIRB long protocols	
VHF Homer	Satellite compatible phase content			
APPROVALS *				
COSPAS-SARSAT	C/S T.001/007 Certified to Class 2 Requirements.			
GMDSS Compliance	N/A	IMO A810 (19), as amended	N/A	IMO A810 (19), as amended
Australia and New Zealand	AS/NZ4280.1:2003			
European	MED Wheelmark°			
USA	FCC, USCG	FCC, USCG	FCC, USCG	FCC, USCG
BATTERY				
Replacement	6 years (non-user replaceable)			
Chemistry	$LiMnO_2$ (0.49 g of lithium per cell)			
No./Size	5 parallel packs of 2 series cells			
PHYSICAL				
Operating	-4°F to +131°F (-20°C to +55°C)			
Storage	-22°F to +158°F (-30°C to +70°C)			
Weight (+ bracket)	1.2 (+.22) lbs 545 (+98) grams	1.2 (+2.43) lbs 545 (+1100) grams	1.26 (+.22) lbs 570 (+98) grams	1.26 (+2.43) lbs 570 (+1100) grams
Compass Safe Distance	2.3 ft (0.7 m)			
Dimensions H x W x D inches (mm)	10.2 x 4.7 x 3.3 (260 x 102 x 83)	15.2 x 6.2 x 4 (386 x 158 x 103)	0.2 x 4.7 x 3.3 (260 x 102 x 83)	15.2 x 6.2 x 4 (386 x 158 x 103)
Auto Release Mechanism	N/A	SOLAS approved Hammar H20	N/A	SOLAS approved Hammar H20
OTHER FEATURES				
Retention Lanyard	Buoyant type approximately 18 ft (5.5 m)			
Reflector	SOLAS retro-reflective tape encircling unit above waterline			
Antenna	Flexible self straightening stainless steel tape			
Stowage	Quick release manual bracket		Auto float free	
Transportation	DG Class 9 - Miscellaneous			

Specifications are subject to change without notice or obligation. * Further International approvals pending.

GME revolutionized the Emergency Beacon world with the introduction of the MT400, MT401, MT401FF and the MT410/G PLBs.

Utilizing the same ground breaking Australian technology, the MT403 series is the latest exciting extension to GME's growing family of innovative safety products.

The addition to the range of the GPS equipped MT403G and MT403FG with an integrated 16 channel high sensitivity receiver and quad helix antenna, provides an even faster emergency signal acquisition time and a significantly reduced search area through the geostationary (GEOSAR) satellite constellation.

Advantages of a 406 MHz EPIRB over the older analogue beacons, include worldwide coverage, position accuracy to typically less than 100 metres with GPS equipped beacons (5 kms, with the standard 406 MHz beacon) and a more stable transmitted signal resulting in minimum detection time. Most importantly the addition of a unique digitally encoded message provides Search and Rescue authorities with vital information including the country of beacon registration and the identification of the vessel in distress. Incidences of false alerts are also greatly reduced along with the unnecessary deployment of valuable rescue resources.

An auxiliary 121.5 MHz homing transmitter is included in all GME MT403 series EPIRBs to enable suitably equipped search and Rescue services to home in on the distress beacon.

COSPAS-SARSAT is the international organization that operates search and rescue satellites and ceased monitoring beacons operating in the 121.5/ 243 MHz range since February 2009.

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