



AUSTRALIAN ENGINEERED

# WATER-ACTIVATED GPS EPIRB MT603 SERIES

CLASS 2 | 406 MHz



ACCUSATO™

# WATER-ACTIVATED GPS EPIRB MT603 SERIES

The MT603 Series of water-activated, GPS-equipped Emergency Position Indicating Radio Beacons (EPIRBs) from GME are the most advanced MEOSAR-ready 406 MHz digital EPIRBs on the market today.

Designed, engineered and manufactured in Australia, the MT603 Series of EPIRBs have obtained international Cospas-Sarsat approval. Boasting the latest advances in emergency beacon technology, the MT603 Series ensures the safety of your vessel and crew in emergency situations, regardless of your location.

## Why have an EPIRB?

An EPIRB can save your life and the lives of others on board by providing rescue authorities your precise location in the event of an emergency.

GME EPIRBs are self-contained 406 MHz radio transmitters that emit an internationally recognised distress signal on the Cospas-Sarsat satellite system.

The MT603 Series of EPIRBs contain a unique identification number which can be cross referenced to a database of registered 406 MHz beacons, allowing the beacon's owner and vessel to be immediately identified in the event of an emergency.\*

## GPS Equipped

The MT603 Series of EPIRBs feature an integrated 66 channel GPS receiver, delivering greater position accuracy and faster location fix than previous models. Boasting zero warm-up digital technology, MT603 Series EPIRBs acquire and transmit accurate latitude/ longitude and personal identification information to rescue authorities as soon as possible. In combination with a high-intensity, solid state strobe light and auxiliary 121.5 MHz VHF homing transmitter, the MT603 Series is the ultimate in emergency beacon technology.

## Water Activation

The MT603 Series of EPIRBs are able to be activated both manually and automatically upon contact with water. The Category 2 EPIRB model (MT603G) will automatically activate when the unit is removed from the mounting bracket and is deployed in water by the user. The Category 1 EPIRB model (MT603FG) will automatically deploy from the 'Float-Free' housing via a hydrostatic release unit at a depth of 1.5 – 4 metres, with the beacon activating upon contact with water.

### MT603G

Category II Manual Release EPIRB



### MT603FG

Category I Auto Release EPIRB



\* Register your beacon with the local Maritime Authorities [www.Cospas-Sarsat.int](http://www.Cospas-Sarsat.int)

## How do EPIRBs work?

### Cospas-Sarsat Satellite System Diagram

1. A distress beacon is activated.
2. Its signal, with its unique identification number or HEX ID, is transmitted and detected by the nearest satellite.
3. An alert is sent to the nearest Local User Terminal (LUT).
4. The alert is processed by the nearest Mission Control Centre (MCC) and forwarded to the Rescue Coordination Centre (RCC).
5. The RCC is notified and begins to arrange search and rescue operation.

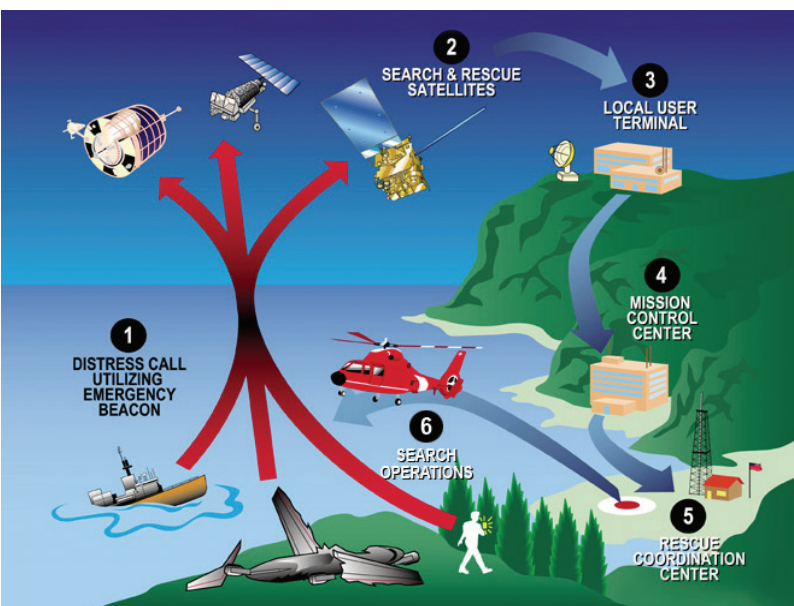
Registration details are provided to the RCC in the country in which the beacon is both activated and registered.

6. Search and rescue authorities commence search operations as soon as they can.

If your beacon is registered with the local maritime authority, Search and Rescue will ring your emergency contacts immediately for information regarding your whereabouts.

It is important to keep your contact details updated in order for search operations to commence as soon as possible.

**Note: Do not turn off your distress beacon until advised by rescue services.**



Source: Australian Maritime Safety Authority, Distress Beacons and MMSI information. 2016

## MT603G

### MT603G Features

Category II Manual Release EPIRB

Channels	66 Channel GPS Receiver Location Accuracy
Specifications	MEOSAR Ready
	Operates with MEOSAR, LEOSAR and GEOSAR Satellite Constellations
Activation	Water & Manual Activation
Operation Time	48 Hours Minimum Operation Time
Warm Up	Zero Warm Up Digital Technology
Certification	Cospas-Sarsat Certified. Internationally Approved For Worldwide Operation (C/S T.001)
Battery Life	6 Years
Warranty	6 Years



## MT603FG

### MT603FG Features

Category I Auto Release EPIRB

Channels	66 Channel GPS Receiver Location Accuracy
Specifications	MEOSAR Ready
	Operates with MEOSAR, LEOSAR and GEOSAR Satellite Constellations
Activation	Float-free - Hydrostatic Release
Operation Time	48 Hours Minimum Operation Time
Warm Up	Zero Warm Up Digital Technology
Certification	Cospas-Sarsat Certified. Internationally Approved For Worldwide Operation (C/S T.001)
Battery Life	6 Years
Warranty	6 Years



# SPECIFICATIONS

Modes Of Operation	
Activated:	UHF (406) and VHF (homer) complete with high intensity strobe and audible activation alert
General Self Test:	Comprehensive internal diagnostics with visual and audible operator feedback. UHF test message (inverted synchronisation compatible with portable beacon testers)
GPS Self Test:	GPS acquisition test with visual and audible operator feedback UHF test message containing GPS coordinates
Operation	
Activation:	Water or Manually by operator
Bracket Type:	Manual Release (MT603G) Auto Release (MT603FG)
Duration:	48 hours minimum
Transmission Delay:	121.5 and 406 MHz distress signals commence – 50 seconds after activation
UHF:	406.040 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 UHF-Protocol/Data: Serial number*, Radio call sign or MMSI
Repetition Period:	50s mean, digitally generated randomisation VHF: 121.5 MHz, 25 mw. Min PERP@25°C
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)
Configuration:	2 'D' type cells

Physical	
Operating Temperature:	-20°C to +55°C
Storage Temperature:	-30°C to +70°C
Weight:	550 g (plus 98 g for bracket) - MT603G 550 g (plus 1100 g for housing) - MT603FG
Compass Safe Distance:	0.8m from magnetic navigational device
Dimensions:	260 mm (H) x 102 mm (W) x 83 mm (D) - MT603G 390 mm (H) x 155 mm (W) x 110 mm (D) - MT603FG
Materials:	UV stabilised plastic chassis
Performance:	AS/NZS 4280.1
Other Features	
GPS:	Internal 66 channel high performance receiver with quadrifilar helix antenna
Retention Lanyard:	Buoyant type approximately 5.5 metres long
Reflector:	SOLAS retro-reflective tape encircling unit above waterline
Solid-state Strobe:	High reliability solid state design exceeds IMO requirements
Antenna:	Flexible self-straightening stainless steel design
Bracket:	Quick release mechanism (manual) Retained by four (4) vessel fixing points - MT603G Automatic release mechanism (float-free) Retained by four (4) vessel fixing points - MT603FG

\*Standard factory setting, subject to National requirements.  
Distributor-reprogrammable via optical data interface.

Specifications are subject to change without notice or obligation.

NOTE: Batteries are not user replaceable. Replace after emergency activation or reaching the marked expiry date, the EPIRB must be returned to GME or its authorised service centre for battery replacement.



[gme.net.au](http://gme.net.au)

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