

## **Beacon Descriptions**

The following pages include copies of the manufacturers' sales materials for the beacons tested by Equipped To Survive Foundation for the Evaluation of 406 MHz Location Protocol Distress Beacons, April, 2004:





## GlobalFix™ 406

**Product No. 2744 Cat II (Manually Deployed)  
406 MHz EPIRB with Integral GPS  
Model No.: RLB-35 Cat II**

- > FastACQ™ GPS engine acquires LAT/LON from a cold start better than normal GPS engines
  - > Patented proprietary electronics package provides greater frequency stability for most accurate position through the LEOSAR satellites
  - > FastACQ™ GPS is on for up to 25 minutes in the first 45 minutes of operation
  - > 100 m (110 yds) GPS position accuracy, optimum allowed by COSPAS-SARSAT
  - > Only EPIRB available that provides a GPS acquisition test, a full functional self test of internal circuitry, and battery voltage test
  - > High-impact polycarbonate case with non-tangling lanyard
- > Universal Low Pro™<sub>2</sub> Category II EPIRB Bracket (P/N 9430) included; bulkhead and rail mounting options
  - > Class 1 battery for colder temperature operation; minimum 48 hrs @ -40°C (-40°F), 5 year replacement
  - > Automatically activated when out of bracket and in the water or manually activated
  - > Transmits on 406 MHz (COSPAS-SARSAT) with your registered, digitally-coded distress signal, and 121.5 MHz (SAR homing frequency)
  - > Audio/visual indicators of active transmission
  - > Floats upright with high visibility built-in strobe

Size: 17.5 x 4.75 x 3.5 in (44.4 x 12.1 x 8.9 cm)

Weight: 2.3 lbs (1.04 kg)

Material: High impact polycarbonate blend case/polyethylene bracket

Color: Hi-Viz Yellow/White bracket

Deployment: Manual

Operation: Lift switch up, slide left, push down fully breaking tab; water activated when out of bracket

Waterproof: 33 ft (10 m)

Accessories: 1096 Battery Replacement Kit

Certification: Approved by COSPAS-SARSAT, FCC, USCG; complies with GMDSS, European MED

Radiated Power: 5 watts ±2dB (406 MHz) 50 mW ±3 dB (121.5 MHz)

Battery Type: Lithium 5-year replacement life (11-year storage life)

Frequency: 406.028 MHz, 121.5 MHz

Carton Weight: 3.5 lbs (1.59 kg)

Carton Dimensions: 18.0 x 7.0 x 6.0 in (45.7 x 17.8 x 15.0 cm)

Units Per Carton: 1

Modulation: AM

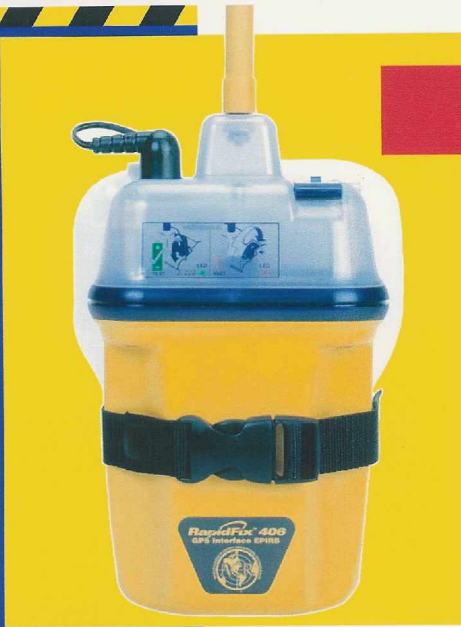
Limited Warranty: 5 years

U.S. Patent No. 6,501,340



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**A Chelton Group Company**



## RapidFix™ 406

**Product No. 2777.5 Cat II (Manually Deployed)  
406 MHz EPIRB with GPS Interface  
Model No.: RLB-33 Cat II**

- > Improved GPS LED Infrared Interface (NMEA 0183) cable, visually confirm GPS download; GPS LAT/LON are sent on the very first burst, no waiting to acquire GPS coordinates
- > Patented proprietary electronics package provides greater frequency stability for most accurate position through the LEOSAR satellites
- > When GPS data is present, 100 m (110 yds) GPS position accuracy, optimum allowed by COSPAS-SARSAT
- > World's smallest 406 MHz EPIRB that meets all regulations and is fully approved worldwide
- > GPS confirmation test; a full functional self test of internal circuitry, and battery voltage test
- > High-impact polycarbonate case with non-tangling lanyard

- > Universal Low Pro™<sub>2</sub> Category II EPIRB Bracket (P/N 9430) included; bulkhead and rail mounting options
- > Class 1 battery for colder temperature operation; minimum 48 hrs @ -40°C (-40°F), 5 year replacement
- > Automatically activated when out of bracket and in the water or manually activated
- > Transmits on 406 MHz (COSPAS-SARSAT) with your registered, digitally-coded distress signal, and 121.5 MHz (SAR homing frequency)
- > Audio/visual indicators of active transmission
- > Floats upright with high visibility built-in strobe

Size: 14.5 x 4.25 x 3.62 in (36.8 x 10.8 x 9.2 cm)

Weight: 1.9 lbs (.861 kg)

Material: High impact polycarbonate blend case/polyethylene bracket

Color: Hi-Viz Yellow/White bracket

Deployment: Manual

Operation: Lift switch up, slide left, push down fully breaking tab; water activated when out of bracket

Waterproof: 33 ft (10 m)

Accessories: 1096 Battery Replacement Kit

Certification: Approved by COSPAS-SARSAT, FCC, USCG; complies with GMDSS, European MED

Radiated Power: 5 watts ±2dB (406 MHz) 50 mW ±3 dB (121.5 MHz)

Battery Type: Lithium 5-year replacement life (11-year storage life)

Frequency: 406.028 MHz, 121.5 MHz

Carton Weight: 3.0 lbs (1.36 kg)

Carton Dimensions: 18.0 x 7.0 x 6.0 in (45.7 x 17.8 x 15.0 cm)

Units Per Carton: 1

Modulation: AM

Limited Warranty: 5 years

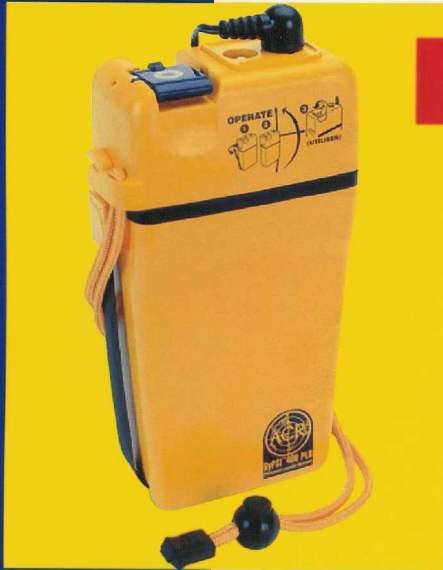
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**A Chelton Group Company**





## GyPSI™ 406 PLB

**NEW**

### 406 MHz Personal Locator Beacon with GPS Interface

Product No. 2793 FCC APPROVED

Product No. 2790 Approved for sale outside the United States

- > Transmits on 406 MHz via the COSPAS- SARSAT satellite system with your registered unique, digitally coded distress signal and 121.5 MHz (SAR homing frequency).
  - > Recessed, waterproof GPS/programming interface (NMEA 0183) transmits GPS data for even faster response.
  - > Small, lightweight unit can be easily carried in a pack or pocket; small enough to wear on deck by racers, crew, solo cruisers, kayakers, climbers, hikers, hunters, pilots or any outdoor enthusiast.
  - > Single, three - position switch for simplicity. Red LED flashing indicates unit is "ON", Yellow LED flashing indicates test sequence in process, steady green LED indicates unit has passed full functional test.
- > Functional test for battery power, 406 MHz transmission, and GPS.
  - > Flat, stainless steel antenna wraps compactly around bottom case for easy stowage; is easily positioned when needed.
  - > Floats to avoid loss if dropped in water, waterproof to 3.3 ft (1 m).
  - > Case and instruction label are oil, water and UV resistant, with non-corroding components.
  - > Wrist lanyard ensures security when hand-held.
  - > Can be stored between -50° C and +70°C (-58°F and +158°F).

<b>Size:</b>	1.9 x 6.5 x 3.8 in (4.8 x 16.5 x 9.5 cm)
<b>Weight:</b>	17.6 oz. (499 g)
<b>Battery:</b>	Lithium 5 year replaceable (11 year storage)
<b>Material:</b>	Fiber reinforced polycarbonate blend with resin tougheners
<b>Color:</b>	Hi-Viz Yellow/Blue
<b>Deployment:</b>	Manual
<b>Operation:</b>	Lift switch up, slide right, push forward breaking tab
<b>Accessories:</b>	RapidDitch-P carrying bag Included (P/N 2267)
<b>Certification:</b>	Approved by COSPAS -SARSAT; FCC approved
<b>Limited Warranty:</b>	5 years
<b>Radiated Power:</b>	5 watts ± 2dB (406 MHz) 50 mW ± 3dB (121.5 MHz)
<b>Operational Life:</b>	In excess of 24 hours @ -40°C (-40°F), longer in higher ambient temperature



RapidDitch-P  
Included



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— A Chelton Group Company —

# PRECISION 406 MHz **GPS** EPIRB

The smallest, lightest,  
most powerful 406MHz  
GPS EPIRB on the  
face of the planet!



Pains-Wessex has broken new ground in developing technically advanced equipment for safety at sea with the new Precision 406 GPS EPIRB. Designed specifically to meet the needs of leisure boaters and commercial ship operators alike, the Precision 406 GPS features an internal 12 channel parallel GPS receiver within a compact 406 EPIRB.

- USCG & FCC approved
- Built-in 12 Channel GPS receiver
- Transmits on the NEW clearer 406.028 MHz frequency (Only GPS EPIRB to do so)
- Long life SIX YEAR battery (12 year useful life)
- Once activated operates up to 60 HOURS (48 hours minimum requirement)
- 121.5MHz homing signal up to 40 Mile range
- Pinpoints global position to within 100 feet
- Alert time to rescue service approximately 3 minutes
- Updates accurate latitude/longitude position every 20 minutes
- Built-in self-test & diagnostic check capabilities
- Smallest, lightest & most powerful GPS EPIRB available. Weight 1.6lbs, Height 8.25"
- Available in Category 1 (Automatic) or Category 2 (Manual) deployment
- 5 year limited warranty

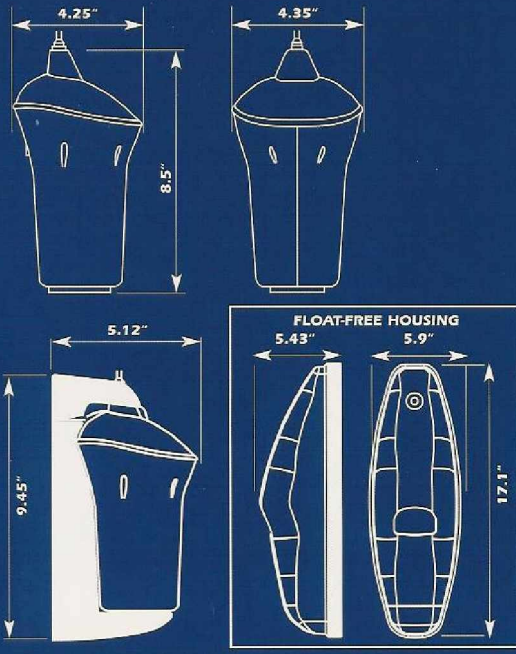
Using the latest Cospas Sarsat geo-stationary constellation, the Precision 406 GPS EPIRB provides an instant alert to the search and rescue services with the vessels details including latitude and longitude.







technical specifications  
**PRECISION  
406 MHz GPS EPIRB**



**General**  
Message formats

EPIRB National, Standard and User Location Protocol as applicable, plus EPIRB user protocols, Serialized, MMSI and radio call sign. Via RS232 light pen and windows based PC. Beacon: Manual deployment  
Operating -4°F to +131°F (Class 2)  
Storage -22°F to +131°F (Class 2)  
Float free mechanism:  
Operating -22°F to +158°F (Class 2)  
Storage -58°F to +158°F  
6 years storage life from date of battery manufacture, then minimum of 48 hours operating time.  
Waterproof to 33'  
1.6lb (730g)  
4.9lb (2.2kg)

Programming  
Temperature

Battery life

Sealing depth  
Weight  
Auto case & EPIRB

**406MHz transmitter**

Frequency 406.028MHz +/-1KHz  
Output power 5 Watts +/-2dB  
Modulation Biphase 1.1 +/-0.1 radians

**121.5MHz transmitter**

Frequency 121.5MHz +/-3kHz  
Output power 50mW ERP  
Modulation AM, up or down swept tone

**Visual location**

Intensity 0.75Cd Xenon discharge light  
Flash rate 23 flashes per minute

**Approvals**

Complies with IMO resolutions A662(16), A694(17), AB10(19)  
IEC 1097-2  
Cospas-Sarsat C.S.T.001 and T.007  
European ETS-300-066  
USA, RTCM, FCC Approved,  
EU MED (Ship's Wheel) Approved, GPS

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**Emergency Position Indicating  
Radio Beacon (EPIRB)**

The Precision 406 GPS EPIRB is the result of extensive research and development which brings together the expertise of McMurdo and the knowledge of Pains-Wessex, utilizing the award-winning design of the Rescue 406 EPIRB.

The Precision 406 GPS EPIRB features an integral 12 channel parallel GPS receiver within a compact 406 EPIRB. The benefits of the Precision's integral GPS is that position information is updated every 20 minutes providing an accurate position even when the EPIRB has been activated and is drifting in the sea.

Using the latest Cospas Sarsat satellite constellation, the McMurdo Pains-Wessex Precision 406 GPS EPIRB provides an instant EPIRB alert to the search and rescue services. The vessels details, together with latitude and longitude, are signalled to rescue services thus avoiding lengthy searches.

As with all McMurdo Pains-Wessex commercial products the Precision 406 GPS EPIRB is fully compliant with international legislation and meets worldwide approval standards.

- High intensity xenon strobe light
- Global coverage with Cospas Sarsat polar orbiting satellites
- Geostationary coverage >75°N - 75°S
- Typical battery life 48 hours at -4°F
- Transmits on new C-S frequency of 406.028MHz
- Comprehensive transmit fault indicator
- Handles all Cospas Sarsat EPIRB message formats (location and user protocols)
- Comprehensive transmit fault indicator
- 121.5 MHz homing transmitter indicator
- 406 MHz Transmit Indicator
- 121.5 MHz fault indicator
- 406 MHz fault indicator
- GPS position acquired indicator
- GPS position transmitted indicator
- Integral 12 channel parallel GPS receiver
- GPS cold start time to fix typically less than 5 minutes
- GPS transmitted position update rate every 20 minutes (as permitted by Cospas Sarsat)
- GPS reacquisition time, typically less than 60 seconds
- Positional accuracy better than  $\pm 197'$  (60m) typically 98.5' (30m)
- Time to alert, less than 5 minutes (via geostationary satellite)

**Ordering information**

Model	Category	Class	Deployment / Description	Part No.
Precision GPS EPIRB	2	2	Manual / c/w Bulkhead Bracket	82-514A
Precision GPS EPIRB	2	2	Manual / c/w Protective Housing	82-524A
Precision GPS EPIRB	1	2	Auto / c/w Float-Free Housing	82-504A
Protective Housing	-	-	Manual / w/o HIRU	82-539A
Float-Free Housing	-	2	Auto / c/w HIRU	82-544A
Bulkhead Bracket	-	-	Manual	82-276B

**Other GMDSS equipment in the McMurdo Pains-Wessex Safety  
Product Range includes Radios and SART**

AUTHORIZED DEALER



**Exclusive US importer for  
McMurdo Pains Wessex Electronics**

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**mcmurdo**  
PAINS WESSEX

# FASTFIND Series

## Personal Location Beacons

The Fastfind and Fastfind Plus series of Personal Location Beacons are the very latest from McMurdo Pains Wessex designed to provide individuals with the highest chance of being found in an emergency.

In the event of an emergency an alert signal is transmitted to COSPAS-SARSAT satellites and forwarded to a rescue coordination center within approximately 3 minutes. The built-in GPS receiver will provide latitude and longitude coordinates to a position of within approximately 100 feet anywhere in the world.

- Built-in GPS receiver
- Global alert to COSPAS-SARSAT satellites
- 121.5MHz homing in frequency
- Alert time typically within 3 minutes
- Positional accuracy to within approximately 100 ft
- Compact & stylish
- Complete with lanyard and carry case
- User replaceable battery packs (-4°F or -40°F)
- Floats with -4F° battery pack
- Accepts serialized or MMSI protocols
- Simple three stage manual activation

The standard 406MHz Personal Location Beacon has all the features of the Fastfind Plus but without GPS. The 406MHz frequency provides an alert signal to rescue services within 90 minutes maximum, depending on satellite passes and gives a positional accuracy to within 3 miles. Once in the vicinity the 121.5MHz transmitter provides a signal for the rescue services to home-in on. This information is more than sufficient to enable rescue services to find an individual in distress.

These latest advanced products from McMurdo Pains Wessex have been designed to provide the very best chance of being found in an emergency for:

- Professional & recreational boaters
- Single handed boaters
- Kayakers
- Fishermen
- Pilots
- Hikers
- Campers
- Mountain climbers
- Skiers
- Hunters
- Divers

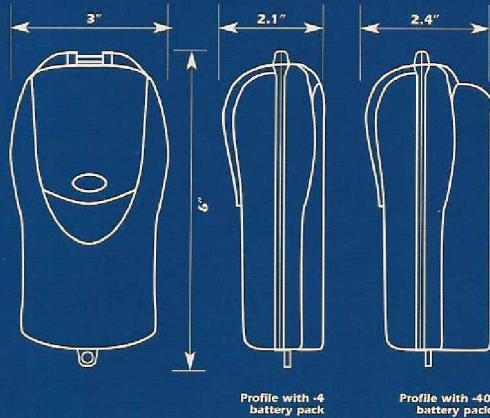
**1** **2** **3**

Three stage activation      Transmitting





**technical specifications**  
**Fastfind and Fastfind Plus**



**General**

Message formats	PLB National, Standard, and User Location Protocol as applicable, plus serial (non-GPS version)
user	
Programming	Via RS232, light pen and windows based PC
Temperature	Storage: -67°F to +158°F (Class 1) Operating: -40°F to +131°F (Class 1) With class 1 battery pack  Storage: -22°F to +158°F (Class 2) Operating: -4°F to +131°F (Class 2) With class 2 battery pack
Battery life	5 years storage then 24 hours operation
Sealing	BSEN 60945 temporary immersion MIL-STD-810F method 500.4 15,000 feet altitude
Weight	Approx. 14oz with -40° battery pack Approx. 9oz with -4° battery pack
<b>406MHz transmitters</b>	
Frequency	406.028MHz +/-1kHz
Output power	5 Watts +/- 2dB
Modulation	Biphase L
<b>121.5MHz transmitter</b>	
Frequency	121.5MHz +/-3kHz
Output power	50mW
Modulation	AM, up or down swept tone

**Approvals**

R & TTE Approved  
International Approvals to follow

**Accessories**



Diver Canister



Direction Finder



Emergency Receiver

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UK00 4/03

**Fastfind and Fastfind Plus  
Personal Location Beacons**

The Fastfind and Fastfind Plus Personal Location Beacons feature the same advanced technology as found in the award winning Rescue and Precision 406 GPS EPIRBs. Designed using miniaturized components to fit into an aesthetically styled compact casing both versions employ a simple three stage manual operation and feature user replaceable battery packs, available in for use in temperatures of -4° and -40° Fahrenheit.

These latest advanced products from McMurdo Pains Wessex have been designed to provide all types of outdoorsmen with the very best chance of being found without delay in an emergency on land, on sea, or in the air.

- **Global coverage with Cospas-Sarsat polar orbiting satellites**
- **Geostationary coverage >75°N - 75°S**
- **Comprehensive indication of operation**
  - 121.5 MHz transmission
  - 406 MHz transmission
  - GPS acquisition and fix status
- **Integral 12 channel parallel GPS receiver**
- **GPS cold start time to fix typically less than 3 minutes**
- **GPS transmitted position update rate every 20 minutes (as permitted by Cospas-Sarsat)**
- **GPS reacquisition time, typically less than 60 seconds**
- **Positional accuracy typically 100 feet**
- **Time to alert, typically three minutes (via geostationary satellite)**



Carry case and lanyard

Carrying the Fastfind could not be simpler, both versions come equipped with a lanyard and carrying case to enable the user to keep the PLB safely attached at all times. A watertight canister is also available for diving.



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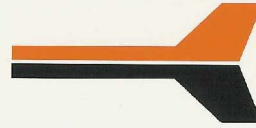
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**Multi Function Personal  
Locator Beacons  
PLUS Embedded GPS**  
**Series 500-27**



**Techtest  
Limited**

Advanced  
test and  
measuring  
equipment





# Multi Function Personal Locator Beacons PLUS Embedded GPS

## Series 500-27

### Features

- Simultaneous Transmissions.
- Beacon and Speech Modes and COSPAS/SARSAT coverage.
- Continuous transmission of GPS lat/long data on COSPAS/SARSAT data burst.
- Unique remotely programmable country code function for 406.025MHz.
- Manual or automatic operation.
- Meets NATO STANAG 7007, latest issue. ED-62 CAA CAP 208 Chapter 10.
- Waterproof to 10 metres.
- Reprogrammable on aircraft.

The Series 500-27 Personal Locator Beacons are simple, compact lightweight units which can be used either manually or automatically via ejection seat harness. A fully embedded 12 channel GPS with data burst transmission on 406.025 MHz. Fully compatible with the majority of search and rescue equipment including the COSPAS/SARSAT satellite based survivor location equipment.

The PLB is a one piece unit with the transmission housed in a yellow pigmented or NATO green moulded thermoplastic case, which is designed such that the replaceable battery pack can be mounted within the overall package to form a smooth but non-slip hand portable unit. The design is such that easy replacement of the battery module (15 seconds) is possible during beacon operation. Full speech capability on 121.5 and 243 MHz together with an audible tone indicating live beacon transmissions with GPS lat/long position. The unit is designed to survive for up to ten years with the only maintenance being battery replacement every five years. The antenna (supplied) is capable of being attached directly to the PLB or remote through a cable assembly for operation in a dinghy.

### Specification

#### Transmitter Signal

##### Frequency

The PLB transmits modulated homing signals on both 121.5 MHz (Civil), and 243.0 MHz (Military) distress frequencies, with characteristics in accordance with STANAG 7007. Together with 406.025 MHz in accordance with COSPAS/SARSAT.

##### Channel

Transmissions and reception on both frequencies are compatible with 25KHz channel spacing.

#### Modulation (121.5 and 243 MHz)

Continuous Swept Tone of at least 700Hz within the Sweep Range.

**Sweep Range** 1.6 K-Hz to 300-Hz (i.e. downwards).

**Sweep Rate** 2-3 Hz

Amplitude Modulated with Rectangular Wave.

Modulation Depth – 67% minimum (80% typical).

#### Modulation (406.025 MHz)

0.5 Secs 5W pulse every 50 secs.

Phase modulation of  $\pm \pi/3$  rad (peak)

Digital modulation to include (see C/S G.005 Iss. Rev 1, Section 3)

Bit Synchronisation

Frame Synchronisation

Protected Field

Emergency-Code/National Use Field

Long Message (optional)

#### GPS Receiver (Embedded)

Snap Start (advanced hot start) 2 sec

Hot Start (avg) < 8 sec

Warm Start (avg) < 40 sec

Cold Start (avg) < 50 sec

Satellite Signal Reacquisition Time 100 ms

No of Channels 12

Correlation Points 960

Min Signal Level Tracked -172 dBw

Power Consumption 110 mA

Receiver L1 C/A Code

Protocols NMEA V2.2, SIRF

#### GPS Antenna

Centre Frequency 1575.42 MHz

Bandwidth 2 MHz min (at -10dB point)

Gain 1 dBi min (elevation 90°)

VSWR (at fo) 2.0 : 1 max

Impedance (at fo) 50 ohm

Polarisation RHCP

#### Power Output (121.5 and 243 MHz)

48 hours min., 100mW (+20dBm) at -20°C.

#### Power Output (406.025 MHz)

24 hours min., 5W (+37dBm +/- 2dBm) at -20°C.

**Activation** Manual or Automatic

**Dimensions** 150 x 87.5 x 37.5 mm

**Weight** 650gm nominal

**Colour** NATO green or yellow

#### Compliance

The PLB is compliant with the following specifications.

##### Civil

BS 33 100 Series for general requirements for use in aircraft.  
 CAP 208 Aircraft Radio Equipment Issue 2 January 1991, Volume 1 Part 10 – Survival (ELTS). EUROCAE ED62 / RTCA DO-204 / RTCA DO-183 EUROCAE ED14C / RTCA DO-160C COSPAS/SARSAT.

##### Military

NATO – STANAG 7007 latest issue Personal Locator Beacon

##### Approvals

TSO C91a and C126, JTSO-2C91a and 2C126.



**DO NOT SCALE**

**ISSUE**  
A. 07-07-00  
TT566

**SPECIFICATION**

PRIMARY MODE FREQUENCIES : 121.5, 243 & 406.025MHz  
 SECONDARY MODE FREQUENCIES : 121.5 & 243MHz  
 RECEPTION OF G.P.S. DATA SIGNALS FOR INCORPORATION INTO THE COSPAS/SARSAT MESSAGE.  
 COSPAS/SARSAT MESSAGE TRANSMISSION FREQUENCY AS ABOVE (406.025MHz)  
 MESSAGE FORMAT : LONG  
 MODULATION : BI-PHASE LEFT. ( ± 1/3rad).  
 VHF MODULATION : SWEEPED TONE & SPEECH (A3E)  
 RECEPTION : AUTOMATIC ON 121.5MHz AND 243MHz.  
 OPERATING TEMP. RANGE : -20° TO +55°C (CLASS 2)  
 BATTERY : LITHIUM MANGANESE DIOXIDE(LiMnO<sub>2</sub>)  
 BATTERY LIFE : 24 hrs IN PRIMARY MODE FOLLOWED BY 24 hrs IN SECONDARY MODE AT 20°C  
 WEIGHT : 1.37lbs (625gms) NOMINAL

**NOTES**

- ANTENNA IS REMOVABLE FOR ALTERNATIVE FIT OF REMOTE ANTENNA FOR APPLICATIONS IN EJECTION SEAT SURVIVAL PACKS.
- UNIT FITTED WITH REMOVABLE BATTERY PACK.
- ORDERING INFORMATION-

PART No.	FINISH	REMARKS
500-277	NATO GREEN	
500-277	HIGH VISIBILITY YELLOW.	

**TECHTEST LTD.**  
Leominster, Herefordshire

**NATO STOCK No.**

**PERSONAL LOCATOR BEACON**

**INSTALLATION DRG. No 500-27 SERIES**

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**SCALE NOTE**

**DIMENSIONS ARE NOMINAL**

**FINISH**  
SEE NOTE 3.

DRAWN	D. LANE	SCALE	NOTE	DIMENSIONS IN INCHES (MM)
DATE	07-07-00			
CHECKED	<i>T. Lane</i>			
DATE	07-07-00			
APPROVED	<i>NBA</i>			
DATE	07-07-00			