

mcmurdo
EMERGENCY LOCATION BEACONS

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mcmurdo
EMERGENCY LOCATION BEACONS

Distributors and agents throughout the world



Dealer:



The Company

McMurdo, acquired by Signature Industries Ltd in April 2007, was established in 1937 and leads the way in the development and manufacture of emergency location beacons and NAVTEX technology.

Based in Portsmouth England, McMurdo was the first to produce a COSPAS-SARSAT approved EPIRB in July 1989. McMurdo further galvanised its position as the leader in safety equipment technology in 1992 with the release of the first GMDSS approved Search And Rescue Transponder (SART). Since that date we have continually led the way in the functionality and accuracy of emergency location beacons launching a PLB (Personal Locator Beacon) for use on land, sea or air in 2000. Also in that year GPS technology was introduced to both the EPIRB and the PLB.

The McMurdo name stands for high quality products using the latest technology. Organisations such as the Royal Navy and the US Coastguard understand the importance of ultra-reliable high quality equipment which is why they have chosen McMurdo products for their vessels and their crew.

McMurdo products are used around the world, on land, sea and in the air. Where safety is important you will find McMurdo.



Service and Spares

McMurdo has a complete customer services operation that handles the repair and servicing of our full range of products. From scheduled beacon battery changes to the service and repair of Navtex and VHF equipment our team is here to help.

Our in-house service department operates in support of our worldwide service agents who are fully trained and certified to service and repair McMurdo equipment. For your nearest service agent please visit www.mcmurdo.co.uk.

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How does an EPIRB work?

An Emergency Position Indicating Radio Beacon (EPIRB) or Personal Locator Beacon (PLB) is used to alert search and rescue services in the event of an emergency. They do this by transmitting a coded message on the 406 MHz distress frequency. This message is relayed via satellite and earth station to the nearest rescue co-ordination centre.

406 MHz EPIRBs and PLBs work with the Cospas-Sarsat polar orbiting satellite system which provides true global coverage. The system has an alert delay of typically 45 minutes dependant on when the satellites come into view on the horizon.



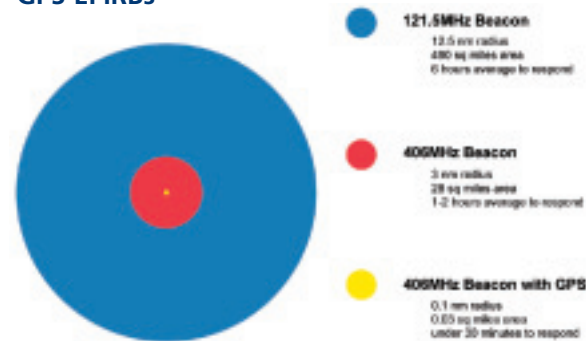
The satellite can determine the position of your Smartfind E5 EPIRB or Fastfind PLB to within 5km (3 miles). The coded message identifies the exact vessel to which the E5 is registered or the person the Fastfind PLB is registered to. This information allows the rescue services to eliminate false alerts and launch an appropriate rescue.

The GPS enabled Smartfind Plus G5 406 MHz EPIRB and Fastfind Plus PLB have built-in transmitters that will typically alert the rescue services within 3 minutes. Smartfind Plus is capable of providing typical positional accuracy of +/- 50 Metres and position updates every 20 minutes, given a clear view skyward.

Both the Smartfind EPIRBs and Fastfind PLBs also have a secondary distress transmitter. This transmits on 121.5 MHz and is used for "homing" purposes. When the rescue services get close, this allows them to direction find on the signal. To cater for searches at night, the Smartfind EPIRBs have a high brightness LED flashing light that aids final visual location.

Since its inception in 1982 the Cospas-Sarsat System has provided distress alert information which has assisted in the rescue of over 18,865 persons in 5,317 distress situations. The Cospas-Sarsat Programme assists search and rescue (SAR) activities on a worldwide basis by providing accurate, timely, and reliable distress alert and location data to the international community on a non-discriminatory basis.

GPS EPIRBs



The GPS EPIRB and PLB have been designed to enhance further the lifesaving capabilities of conventional beacons. The standard Global Positioning System (GPS) uses an array of 27 satellites and provides continuous positional information with a typical accuracy of around 50m. A 406MHz EPIRB such as the Smartfind Plus or PLB such as the Fastfind Plus has a built in GPS, when the beacon is activated in an emergency, positional information is incorporated into the distress message which it transmits.

This incorporation of positional information overcomes the location problem when using geostationary satellites and can greatly reduce the time it takes for the SAR authorities to arrive on the scene. When speed of response and accuracy of location are important considerations, then the GPS EPIRB offers the best performance.

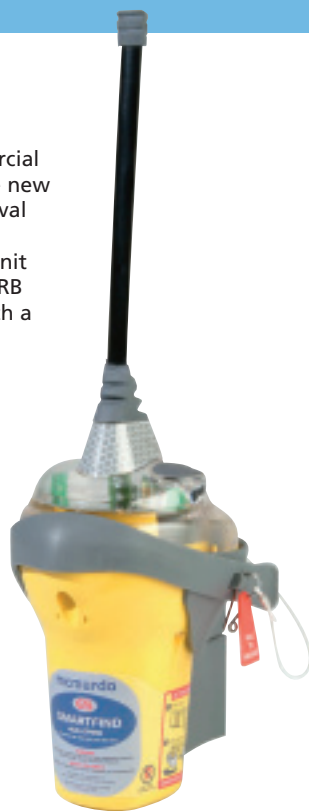


Smartfind

Meeting the demands of both commercial mariners and recreational boaters, the new McMurdo SMARTFIND heralds the arrival of the next generation in EPIRB technology. This compact and stylish unit is available as a standard 406 MHz EPIRB or, for enhanced position location, with a built in high accuracy GPS.

The key features are:

- Internationally Approved
- Non hazardous battery for safe and easy transportation
- Unique CARRYSAFE bracket for safe transportation
- High brightness LED flashing locator lights
- Integrated 12 channel GPS (PLUS version)
- Comprehensive diagnostic and self-test facilities
- Once activated, will transmit for a minimum of 48 hours
- 5 year warranty*
- 5 year battery life*



SMARTFIND Manual EPIRB
with Carrysafe bracket

The SMARTFIND Series consists of two base models;

E5 SMARTFIND is a 406 MHz EPIRB designed to operate with the COSPAS-SARSAT international search and rescue system. Once removed from its CARRYSAFE mounting bracket the unit can be activated automatically by immersion in water, or manually by following the activation instructions printed on the unit.

The G5 SMARTFIND PLUS has all the advanced features of the standard E5 SMARTFIND with the addition of an integral 12 channel GPS receiver. The addition of a GPS receiver to the EPIRB ensures that the exact position of a casualty is relayed to the rescue services. This can in turn improve the speed of recovery by updating the position of the beacon at regular intervals.



A float free automatic housing is available for both versions of the SMARTFIND.

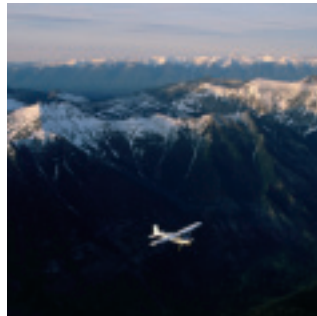


Fastfind PLB Range

The Fastfind range of PLB's are designed to be carried by individuals as a last resort safeguard against any life threatening incidents that may occur anywhere in the world. Whether alone or within a group of people, on holiday, at work, carrying out your sport or hobby, if you ever find yourself in a remote area, land, sea or air, without any other form of communication, the Fastfind PLB comes into its own. Once activated it transmits a unique identification signal along with your current position via the international search and rescue satellite system operated by COSPAS SARSAT on 406 MHz. The signal is then quickly passed to regional search and rescue authorities who can rapidly get to the scene.

There are now four models within the Fastfind PLB range, the original Fastfind and Fastfind Plus, which can be used in colder climates (down to temperatures of -40°C) and the New Fastfind Max and Fastfind MaxG, which have a 48 hour battery operation life.

Fastfind PLB's use the same advanced technology as McMurdo EPRIB's, miniaturised into a compact and rugged, palm sized unit. They are designed to withstand the harshest of environments while still being extremely easy to operate and small enough to carry with you at all times.



Fastfind MaxG

- Inbuilt 12 channel GPS
- Typical alert to rescue services: 3 minutes
- Visual indication of GPS position acquisition
- 48 hour battery



New Fastfind MaxG – with integral 12 channel GPS – and Max.

The latest additions to the popular Fastfind range of McMurdo Personal Location Beacons (PLBs).

Fastfind MaxG
with inbuilt GPS
48 hour operation

NEW

Fastfind Max
48 hour operation

Fastfind PLB Range

- Compact and lightweight
- Waterproof to 10 metres
- Buoyant (with -20°C battery)
- Global emergency alerting via COSPAS-SARSAT satellites
- High accuracy 406 MHz alert transmitter
- 121.5 MHz homing signal
- Simple three stage activation
- Automatic discrete antenna deployment
- User replaceable battery packs
- Country serialised or maritime MMSI coding
- 5 year battery storage life
- Internationally type approved
- Carry pouch and lanyard included

The new Fastfind Max brings added dimensions to safety with 48 hour operational battery life at temperatures as low as -20°C. And for use in extreme cold climates, the Fastfind PLUS and Fastfind have battery options to give a minimum of 24 hours operation in temperatures as low as -40°C.

Fastfind battery packs have a five year storage life and are easily user replaceable.



Fastfind Plus
with inbuilt GPS 24 hour operation

Fastfind Plus

- Inbuilt 12 channel GPS
- Typical alert to rescue services: 3 minutes
- Visual indication of GPS position acquisition
- 24 hour battery
- -40°C extreme climate option

All Fastfind models have our unique discreet antenna deployment system with simple three-stage, manual operation to prevent any risk of accidental or false activation.

In its stored state, the antenna is completely hidden from view and fully protected against rough handling.

Once deployed, the antenna automatically springs into the optimum position ready for use.



Fastfind
24 hour operation

The Fastfind MaxG and Fastfind Plus's integral 12 channel GPS navigation receiver gives a typical positional accuracy of +/- 62 metres and new position updates every 20 minutes, significantly reducing the normal search area down from a 28sq nm area, when given a clear view skyward. They also have visual indication of GPS position acquisition.

Carrying the Fastfind could not be simpler. Supplied with a strong but flexible lanyard cord and a smart carry pouch, the PLB is easy and convenient to carry with you at all times.



Fastfind Range of PLB's

Intuitive, easy three-stage operation



Fastfind PLB range consists of the following models:

	Operation life at minimum temperature			
	GPS	-20°C 48 hour	-20°C 24 hour	-40°C 24 hour
Fastfind MaxG PLB	•	•		
Fastfind Max PLB		•		
Fastfind Plus PLB	•		•	• (option)
Fastfind PLB			•	• (option)

The Fastfind range of PLB products from McMurdo provide professional and recreational mariners, fishermen, light aircraft pilots and those involved in outdoor adventure activities with the very best chance of being found without delay in the event of an emergency.

PLB's are intended for use within the maritime, aviation and land environments where permitted by national administrations.

The Fastfind PLB Dive Canister

This waterproof Aluminium housing enables a diver to carry the Fastfind PLB (-20°C battery only) to depths of 150m (500ft), with the knowledge that once they have returned to the surface they have the security of having access to the Fastfind PLB if there are any threats to their safety.



- Dimensions – 162mm x 93.5mm
- Weight – 900g

Accessories

Grab Bag

Designed for marine and aviation use, this waterproof and buoyant Grab Bag is perfect for holding emergency equipment.



- High visibility
- Buoyant
- Waterproof
- Dimensions – 35cm x 15cm x 24cm

Grab Bag XL

Made from high quality material the Grab Bag XL has an external EPIRB pouch and flare storage pockets.

- Buoyant
- Waterproof
- Watertight zip and Velcro closure
- Carry handles and shoulder strap
- Large capacity – 44cm x 22cm x 30cm



⚙️ R1 Waterproof Handheld VHF Radio

The R1 VHF radio is designed specifically to meet worldwide legislation, and exceeds the demanding IMO requirements for GMDSS survival craft radios. It is 100% waterproof and designed to cope with the toughest marine environments making it an ideal "Fit and Forget" item.

- Tough, reliable 100% waterproof and drop proof
- Exceeds GMDSS specification for use in Survival Craft
- Easy to use
- Three channels: 6, 13 and 16
- Floats
- Long life lithium battery
- Test battery available



⚙️ R2 Handheld GMDSS VHF Radio

The McMurdo R2 GMDSS fully featured 19 channel VHF radio fits securely and comfortably in the palm of the hand. The R2 GMDSS has been built to meet the latest stringent IMO, GMDSS and ETSI standards. This reliable and easy to use radio is 100% waterproof and drop tested to cope with the toughest marine environments.

- Fully featured all 19 Simplex channels as permitted by GMDSS legislation
- Superior voice quality and fully waterproof
- 2.5 watts RF output
- Selectable dual/tri watch function
- Priority channel
- All channel memory scan
- 8 hour battery life at -20°C
- Variable LCD display illumination
- Approved to latest GMDSS, IMO, ETSI Resolutions



S4 SART

The S4 Rescue SART offers proven reliability. Extremely simple to use the S4 Rescue can be operated even with gloved or wet hands. Its compact design makes it ideally suited for packing in liferafts or as a carry off device according to SOLAS regulations.

The S4 Rescue is a 9GHz X-band Radar transceiver and has been designed for assisting air/sea ship or survival craft rescue operations in accordance with IMO, GMDSS requirements.

When a radar signal is received from a ship or aircraft, the S4 Rescue automatically transmits a response signal, which clearly identifies the survival craft on the radar screen by means of a stream of 12 in-line dots. Once activated the S4 will remain in standby mode for over 96 hours.



The S4 Rescue has been designed for reliable operation in the toughest of marine environments, in accordance with IMO/GMDSS requirements.

- Ship or survival craft options
- Waterproof to 10mtrs
- Buoyant
- Compact and lightweight
- Replaceable, 5 year** battery pack
- Audio/visual indication of operation
- Built-in test facility
- Integral lanyard
- Mounting options – internal/external



NAVTEX

NAVTEX technology is an area where McMurdo has considerable expertise, developing and manufacturing NAVTEX receivers for both SOLAS and non-SOLAS vessels.

McMurdo NAVTEX receivers are in widespread use by the world's merchant ships, navies and recreational boaters.

What is NAVTEX?

NAVTEX is a system for the broadcast and automatic reception of maritime safety and weather information. NAVTEX provides shipping with navigational and meteorological warnings and urgent information through either on screen display or automatic printouts from a dedicated receiver.

NAVTEX is a component of the IMO/IHO Worldwide Navigational Warning Service (WWNWS) defined by the IMO. It has also been included as an element of the Global Maritime Distress and Safety System (GMDSS).

How does it Work?

NAVTEX transmissions are sent from localised transmitting stations situated worldwide. The power of each transmission is regulated so as to avoid the possibility of interference between transmitters. Users can set their NAVTEX receivers to receive specific message types and reject others. Messages such as navigational and meteorological warnings and search and rescue information are non-rejectable to ensure that ships equipped with NAVTEX always receive the most vital information. Users can choose to receive information from the single transmitter that serves the sea area around their position, or from a number of transmitters.

NAVTEX Coverage

NAVTEX messages are transmitted worldwide from local stations, the number of stations grows month by month. Information about all known NAVTEX stations can be found on our website (www.mcmurdo.co.uk), details including name, position, range, and operational status.



NAV-7 Tri Channel Professional Colour NAVTEX

The McMurdo NAV-7 supports reception of all three NAVTEX frequencies by providing simultaneous tri channel monitoring; The 518 KHz English language service, 490 KHz national language and 4209.5 KHz long range services can all be viewed together within a single list of NAVTEX messages.

Message text is clearly displayed on a large daylight viewable colour LCD screen. This offers paper white message presentation and very high clarity under all light conditions thanks to the adjustable backlight. The unit is simple to use; coloured headings clearly identify message category types and give quick and easy identification of the message content. The powerful automatic sorting feature allows messages to be viewed on screen and sorted by channel, station ID, message category or age. An indexed message listing page allows for quick searching and direct access to full message text.

McMurdo NAV-7 supports interface connection to Integrated Navigation System (INS) or Electronic Chart Display and Information Systems (ECDIS) and the connection of a printer. Antenna options optimised to include an active antenna.

- Large 6" colour display
- Simple and intuitive to use
- Easy to read extra large font
- Tri channel monitoring
- 12V DC to 24V DC operating voltage
- Soft key options
- Printer output



NAV6dual, NAV6plus NAVTEX and NAV6repeater Systems

The NAV6 is the world's first NAVTEX system to offer dual channel (518 kHz and 490 kHz) reception as standard. Information is presented on a large and easy LCD display rivaling paper print-out for legibility.

NAVTEX is part of the Global Maritime Distress and Safety System (GMDSS). It broadcasts weather and navigation warnings, in English on 518 kHz every four hours from transmitters around the world. Increasingly, local language and small craft information is also transmitted on 490 kHz. The NAV6dual and NAV6plus can monitor both channels simultaneously.

- Splash proof construction
 - Panel or (optional) bracket mount
 - Dual channel NAVTEX sensor fits standard antenna mount
 - Sun cover available
 - Never needs to be out of date.
- Software and database are user upgradeable



NAV6plus
333-NAV6+



NAVTEX Sensor
supplied as standard with
NAV6dual / NAV6plus

Feature	NAV6 dual	NAV6 plus	NAV6A plus*	NAV6 repeater
Dual Receiver	•	•	•	
NMEA Auto Station		•	•	•
NMEA GPS Display		•	•	•
NMEA Instrument Display		•	•	•
NMEA Logging		•	•	•
Display Backlight	•	•	•	•
Data Output		•	•	•
NAVTEX Sensor and 10m cable	•	•		

* NAV6Aplus – Special version available for use with RR and other active antennas

Technical Specifications

Smartfind & Smartfind Plus

406 Beacon Specification: Meets the requirements of international standards: COSPAS-SARSAT T.001 class 2, RTCM SC110-STD Version 2 class 2, IEC 61097-2, EN 60945, Part 80 of FCC regulations.

EPIRB temperature range:
Operating -20°C to +55°C (Class 2),
Storage -30°C to +70°C

SOLAS Float-Free Housing -30°C to +65°C (Class 2)

EPIRB sealing depth: Waterproof to 10 m
EPIRB Weight: 657g (1.5 lb)

Float-Free Housing & EPIRB: 2130 g (4.7 lb)
406 MHz transmitter Frequency:
406.028MHz

Output power: 5W + 2dB

121.5MHz homing transmitter

Output power: 50mW + 3dB PERP

GPS receiver (SMARTFIND Plus)

Maximum number of satellites tracked: 12
Transmit Antenna Type: Blade vertically polarised, omni-directional

GPS Receive Antenna Type: Ceramic dielectric patch

Type: Flashing white LED lamp

Light output: > 0.75 candela over 75% of the horizontal plane

Message formats: EPIRB National, Standard and User Location Protocol as applicable, plus EPIRB user protocols. Serialised, MMSI and radio call sign.

Controls: Manual activation, Self TEST switches

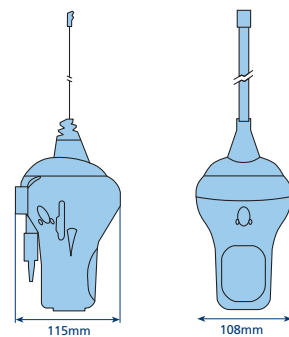
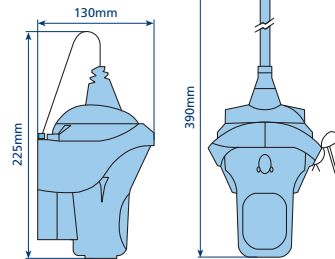
Beacon operation: Automatic activation by seawater switch within 5 seconds of immersion. Manual activation by sealed switch.

Battery Classed as non-hazardous for transportation

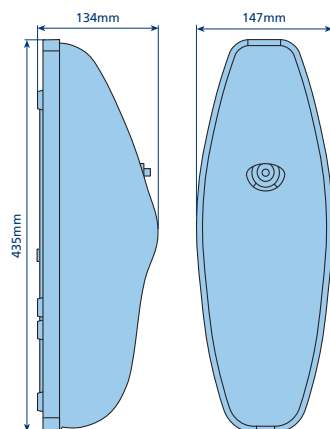
Operational life: 48 hours minimum at -20°C

Battery replacement interval: 5 years

Smartfind in CARRYSAFE Bracket



Auto FLOAT FREE housing for Smartfind



Fastfind MaxG & Max PLB

Message formats PLB National, Standard, and User Location Protocol as applicable, plus serial user (non-GPS version)
PLB temperature range: Operating: -20°C to + 55°C
Storage: -30°C to +70°C

Battery life 5 years storage from date of manufacture

Operating life 48 hours (minimum)

Weight Approx. 0.3 kg (10 oz)

Approvals: COSPAS-SARSAT, R&TTE

406 MHz transmitter

Frequency 406.037 MHz

Output power 5 Watts +/- 2 dB

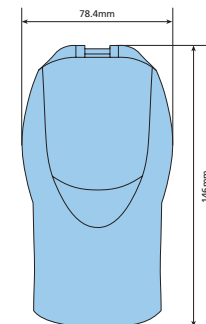
Modulation Biphase L 1.1 +/- 0.1 radians

121.5 MHz transmitter

Output power 62mW +/- 3db PERP

Modulation AM, up or down swept tone

Programming interface: Infra-red diode



Fastfind Plus & Fastfind PLB

Message formats PLB National, Standard, and User Location Protocol as applicable, plus serial user (non-GPS version)

PLB temperature range:
Operating: -20°C to + 55°C (class 2 battery)

-40°C to + 55°C (class 1 battery option)

Storage: -40°C to +70°C

Battery life 5 years storage from date of manufacture

Operating life 24 hours (minimum)

Weight Approx. 0.3 kg (10 oz) with -20 battery pack

Approvals: COSPAS-SARSAT, R&TTE, FCC

406 MHz transmitter

Frequency 406.028 MHz

Output power 5 Watts +/- 2 dB

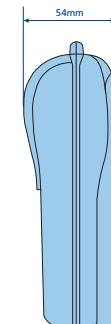
Modulation Biphase L 1.1 +/- 0.1 radians

121.5 MHz transmitter

Output power 50mW +/- 3db PERP

Modulation AM, up or down swept tone

Programming interface: Infra-red diode



Profile with standard battery pack

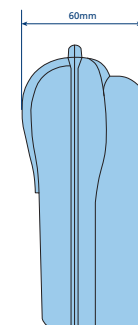
Inbuilt GPS (MaxG and Plus versions)

Number of satellites tracked: 12

Typical accuracy +/- 62m

20 min. position updates

GPS Antenna: Ceramic dielectric patch

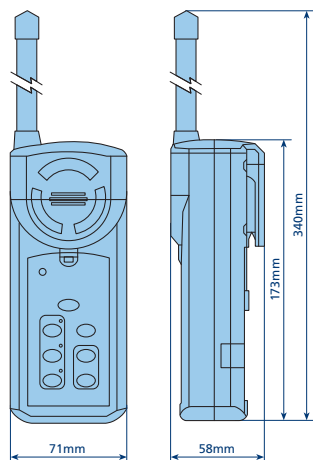


Profile with -40°C battery pack (Fastfind & Fastfind Plus)

Technical Specifications

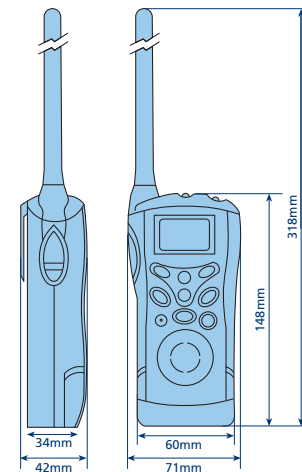
R1 VHF Radio

Approved to ETS300-225/A1: 1997 plus relevant section IMO, ITU, SOLAS
 FCC part 80, (CFR47) GMDSS rules EU MED (Ship's Wheel) approved
 EMC Standard EN 300 828: 1998
 Weight less than 400 g
 Temperature -20°C to +55°C working, -30°C to +70°C storage
 Battery Primary (lithium)
 Battery storage life 4 years
 Battery life 12 hours (10%/10%/80% duty cycle-transmit/receive/squelched)
 Channels Ch 6, 13 and 16
 Water resistance Waterproof to a depth of 1m
 Buoyancy Unit will float
TRANSMIT
 Output Power 0.5 watts ERP
 Current Consumption 350mA
RECEIVE
 Audio Output Power 0.4 watts (1kHz tone, 3kHz deviation)
 Current Consumption 150mA at rated audio power 10mA squelched



R2 VHF Radio

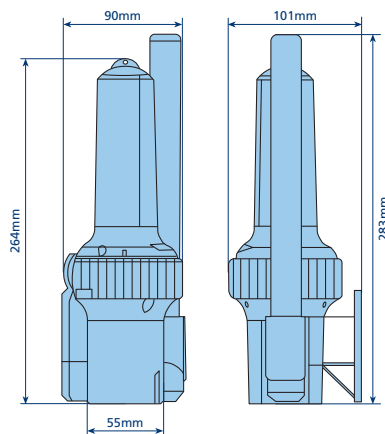
General Performance and Approvals: in accordance with the minimum requirements of ETS300-225. IMO Resolutions A 694(17) and A809 (19) ITU regulations appendices 18 and 19
 SOLAS 1974 and amendments
 EN 60945 (EMC)
 EU Marine Equipment Directive (Ship's Wheel)
 FCC Part 80 GMDSS Rules (CFR47)
 RF output power: 2 settings 2.5 Watts/1 Watt
 Number of channels 19 Simplex channels
 (6,8,9,10,11,12,13,14,15,16,17,67,68,69, 71,72,73,74,77) as permitted by GMDSS legislation
 Frequency range: 155-163MHz
 Receiver A.F output power: 0.4 Watts
 Operational function: Dual watch. Scan memory. Squelch. Volume. Scan all (with delete). Scan Priority. Tri-watch (16, priority, working channel). All the above subject to requirements of national regulatory authorities. Illumination: Channel up/down, on/off, high/low power
 Display: LCD indication of channel and other operational parameters.
 Antenna: Removable - stud mounted for strength
 Weight: Radio with Lithium battery 370g
 Operating temperature -20°C to +55°C
 Storage temperature -30°C to +70°C
 Waterproof: Fully submersible to a depth of 1m including a 45°C thermal shock
 Drop resistance: Will withstand a 1m drop on any face onto a hard surface
 Environment: Corrosion proof, UV resistant, oil resistant
 Battery life: Lithium 8 hours minimum at -20°C (10% high power transmit, 10% receive, 80% squelched)
 Lithium battery storage life
 4 years
 NiCad battery option



Technical Specifications

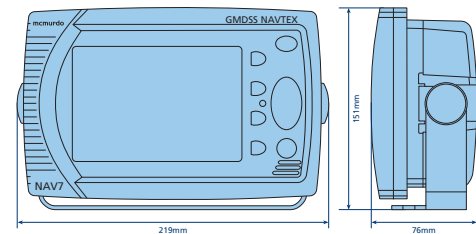
S4 SART

Receiver Response: 9.2–9.5 GHz, sensitivity better than -50 dBm
 Transmitter Response: 12 forward and return sweeps through the range 9.2–9.5 GHz.
 Nominal sweep times 7.5 μ s forward and 0.4 μ s return.
 Radiated Power (ERP): Not less than 400 mW (+26 dBm)
 Duration of Operation: 96 hours in standby condition followed by a minimum 8 hours of transmission while being continually interrogated with a pulse repetition frequency of 1 kHz.
 Temperature Range: -20°C to +55°C operational -30°C to +65°C storage
 Effective Antenna Height: 1 metre or greater.
 Weight: 360g (without mast or bracket)
 510g (with mast)
 530g (with mast & bracket)
 Dimensions: 264mm long x 90mm diameter
 Battery replacement interval: 5 years



NAV-7

Frequencies: 490 kHz, 518 kHz, 4209.5 kHz
 Antenna Input: 50 ohms
 Antenna voltage: 12 VDC @ 100 mA(auto sensing)
 Display: 1/2 VGA (480 x 320 pixels) Daylight viewable colour STN Variable backlight
 Controls: Backlight level / contrast, 4 key 2 axis navigation pad, enter key, 4 menu soft keys
 Connection
 Antenna: TNC
 Power/NMEA 0183 (GPS) 15 way D-type
 Alarm: 9 way D-type
 Data output: Printer: RS232, INS Port: IEC61162-2 (RS422)
 Alarm output: Relay contact: 1A @120VAC/24VDC (max)
 Power: Voltage range: 9-32 VDC, Power Consumption: 5 W (max)
 Technical Standards: IMO Resolutions MSC.148(77) A.2.1, A694 (17), SOLAS Regulation IV/7.1.4, ITU-R M.540-2, ITU-R M.625-3, IEC60945-4.0, IEC61162-1,-2, IEC61097-6 CDV
 Operating Temperature: -15 °C to +55 °C
 Storage Temperature: -20 °C to +70 °C
 Humidity: 0 to 95% non-condensing
 Mounting: Desk-top, bulkhead or flush panel
 Dimensions: 219W x 151H x 76D mm (excluding connectors)
 Weight: 1kg



Technical Specifications

NAV-6

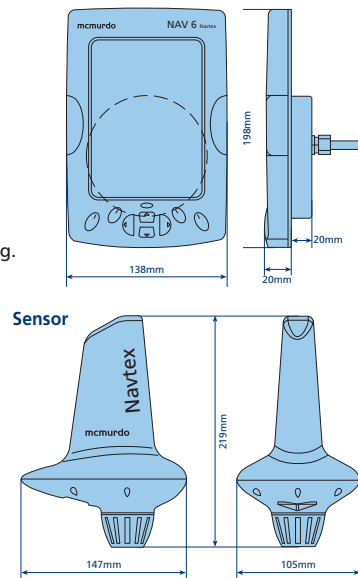
NAVTEX SENSOR

Waterproof to IEC 60945.
 Frequency Stability: +/-10 Hz.
 RS485 serial data I/O port.
 Data decoding in accordance with ITU-R 540-2.
 Operating Temperature Range: -10 to +50°C.
 Humidity: 0 to 95% non-condensing.
 Weight (without cable): 420 g (approx.).
 Industry standard 1" 14tpi threaded base.

Extension Whip (option), length 45 cm/ 3/8" x 24tpi thread.

NAV6 DISPLAY UNIT

Operating Temperature Range: 0 to +50°C.
 Humidity: 0 to 95%.
 Weight (without cable): 445 g.
 Display type: 1/2vga (480 x 320 pixels) 6" monochrome LCD with 4 grey levels and CFL backlight.
 Controls: 4 x function keys, 4 x navigation keys. With LED backlight.
 Alarm: Programmable Vital message reception acoustic alarm.
 Message Storage: Sufficient non-volatile storage for more than 3 days of NAVTEX transmissions under normal operating conditions.
 Connection: 1 metre cable with screw terminal block.
 Environmental: Inside/outside mounting.
 Waterproof to IEC945 (exposed category), IEC 945 (EMC), CE marked.
 Power requirements: Voltage range 10.8V to 15.6V.
 Consumption: (Typical)
 Backlight: full 310 mA (3.8 W at 12V).
 Backlight: off 165 mA (2.0 W at 12V).
 Sleep mode: 115 mA (1.4 W at 12V).
 Data input: NMEA input port, meets the electrical requirements of NMEA 0183. NMEA GPS/Instrument system interface supports NMEA 0183 V2.0 or higher.
 Input/output Interface Specification: Preferred NMEA sentences: RMC, HDT, HDG, VBW, MWV, VLW, DPT, ROT, VDR, RMB and BWC. Minimum recommended NMEA sentences: RMC and RMB.
 Data output: RS232 serial data, supports the printing of vessel 'Log reports' and NAVTEX message text to NAV6 printer or a computer system running compatible software.



Glossary

Automatic Activation

An EPIRB that is activated when it comes in contact with water.

Automatic Deployment

An EPIRB that is automatically released from its housing when the integral HRU is submerged.

Category 1 EPIRB

An EPIRB that is automatically deployed and activated when in contact with water. The EPIRB may also be manually deployed and activated.

Category 2 EPIRB

A manually deployed EPIRB. Once removed from its bracket this EPIRB will be automatically activated when in contact with water or can be manually activated.

Class 1 EPIRB or PLB

Rated to operate down to -40 degrees Celsius.

Class 2 EPIRB or PLB

Rated to operate down to -20 degrees Celsius.

COSPAS-SARSAT

International satellite system for search and rescue. A joint operation between France, Canada, Russia and the USA who monitor the 406 MHz satellite system.

ELT

Emergency Locator Transmitter. Aviation equivalent of an EPIRB.

EPIRB

Emergency Position Indicating Radio Beacon.

FAA

Federal Aviation Administration (USA).

FCC

Federal Communications Commission (USA).

GEOSAR

Geostationary Search And Rescue system. Part of the COSPAS-SARSAT satellite system.

GMDSS

Global Maritime Distress and Safety System.

HRU

Hydrostatic Release Unit. A release mechanism activated by water pressure.

IMO

International Maritime Organisation.

LEOSAR

Low-altitude Earth Orbiting Search And Rescue system.

Glossary

LUT

Local User Terminal. A ground receiving station that picks up the initial EPIRB signal and relays it to the Mission Control Centre. The LUT also calculates the position the signal was transmitted from.

Manual Activation

An EPIRB that is activated by the user.

Manual Deployment

An EPIRB that is released from its bracket by hand. McMurdo EPIRBs are available with either a manual "Carrysafe" bracket or an Auto Housing.

MCA

Maritime and Coastguard Agency (UK).

MCC

Mission Control Centre. The MCC manages satellite information from the LUT and sends an alert to the Rescue Coordination Centre for the region.

MED

Marine Equipment Directive. European certification for equipment that meets the standards required by the IMO and SOLAS.

MOB

Man Overboard.

NAVTEX

A system used for the automatic reception of localised maritime safety and weather information.

NOAA

National Oceanic and Atmospheric Administration (USA).

PLB

Personal Locator Beacon.

RDF

Radio Direction Finder.

RNLI

Royal National Lifeboat Institute.

SAR

Search And Rescue.

SOLAS

Safety Of Life At Sea. Minimum standards of safety set out by the International Maritime Organisation.

S-VDR

Simplified Voyage Data Recorder.

UIN

Unique Identifier Number programmed into an EPIRB or PLB.

USCG

United States Coast Guard.

Wheelmark

Awarded to products that conform to International Maritime Organisation (IMO) type approval.