USE ONLY IN SITUTIONS OF GRAVE AND IMMINENT DANGER **IN CASE OF EMERGENCY**



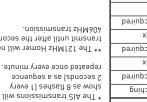
- Raise the red safety cover breaking the tape seal. Press the ON/OFF () Key down for 1 to 2 seconds until the green () LED (blue () if RLS is enabled) illuminates for 1 second and starts flashing. Release the key. RMS sturn off the GlobalFix V5 immediately after you have been rescued to avoid interfer-synce users.
- To turn off the beacon press and hold the ON/OFF 🧿 key until the LED flashes red twice. ence with other users.
- Following activation ensure the antenna is free and the unit has the best possible view of $\overline{\mathbb{V}}$ then release.
- the sky for optimal performance.

LED Indications with RLS Enabled

ราช	SSNO	timenerT	nənW	гер
	Searching		Every 5 s	🌔 (L×)
	Fix acquired		Once	(×3)
RLS Request sent	xiə oN	ZHW907	timenent tA	(x2)
RLS Request sent	Fix acquired	ZHW907	timenent tA	(SX)
	xi7 oN	SIA	*timenent tA) (8x)
	Fix acquired	SIA	*timenent tA	(8x)
RLS Reply not received		ZHMISI	**s č.S very 2.5	🌔 (L×)
RLS Reply received		ZHMISI	**s č.S very 2.5	🌔 (L×)
			s č.S very 2.5 s	[[x]

I ED Indications for units configured with non-RLS Protocol

	SSNO	Transmit	nədW	ГЕD
oys 41 *	Searching		Every 5 s	(LX)
əs Z	Fix acquired		Once	(×3)
Leb	xi7 oN	ZHW907	timenent tA	(SX)
L **	Fix acquired	ZHW907	timenent tA	(Sx)
409 trar	Xi7 oN	SIA	*timenent tA) (8x)
00+	Fix acquired	SIA	*timenent tA	(8x)
		ZHMISI	**s č.S very 2.5	(L×)
			s č.S very 2.5 s	([x]

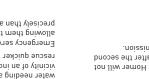


.noissiment zHM004
transmit until after the second
<pre>ton Jliw nameH zHMfSf adT **</pre>
repeated once every minute.
Sseconds a se (sbroce

** The 12MALS Homer will not transmit until after the second 4MAD transmission.
repeated once every minute.



.noissimenert zHMð04
transmit until after the second
ton Jliw nemoH zHMISI edT **
repeated once every minute.



1.3

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รววพ

radio beacons

anoitentis searteib

Emergency service craft are fitted with AIS receivers rescue quicker than the emergency services. water needing assistance. Often it is a vessel in the close vicinity of an incident that is able to react and effect a will activate an alarm on all AIS equipped vessels within VHF range alerting them to the fact that a person is in the

majaya ala

the Galileo Navigation Signal in Space.

Return Link Service

orbit (MEO) which will form the MEOSAR System.

The Cospas-Sarsat System includes two types of satellites:

αφιθοί της ειθηλική τη απόματα αναικό από τη από tionary and low-altitude Earth orbits which -steoge ni satellites breod no stnamurtani

personal use) which transmit signals during use, EPIKBs for maritime use, and PLBs for distress radio beacons (ELTs for aviation adjacent rigure. The System is composed of: The basic Cospas-Sarsat concept is illustrated in the

m9fzy2 TA2AA2\2A9203

BAIGE SIA AUOY TUOBA

precisely than any other system. allowing them to pinpoint a casualty in the water more

an ever growing number of recreational vessels globally. On activation an AIS Man Over Board device

bue pringing the state of the s

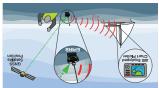
RLS compatible beacons. The new functionality, currently offered uniquely by Galiteo, enables a communication link that relays Return Link Messages (RLM) back to the originating beacon through The Galileo Return Link Service (RLS) is a free-of-charge global service available to Cospas-Sarsat

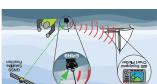
satellites in geostationary Earth orbit (GE0) which form the GEOSAR System The future Cospas-Sarsat System will include a new type of satellite in the medium-altitude Earth

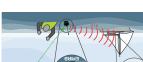
Mission Control Centers (MCCs) which receive alerts produced by LUTs and forward them to Rescue Coordination Centers (RCCs), Search and Rescue Points Of Contacts (SPOCs) or other MCCe ground receiving stations, referred to as Local Users Terminals [LUTs], which receive and process the satellite downlink signal to generate distress alerts

mater SARSORA for the tearth orbit (LEO) which form the LEOSAR System

bd.DD2-AA2-o9li6s/s9fie/36/s9fie/s RLS is an optional function and may not be permitted in all countries. The full RLS specification can to the appropriate SAR agencies. The RLS aims to send an acknowledgment to the beacon within 30 minutes following activation (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the beacon for signification (the response may not be received by the re ARR authorities. It does NOT mean that a search and rescue mission has been launched, but only contirms that the distress alert has been received by the Cospas-Sarsat system and is being routed from the GlobalFix V5 has been localised by the Cospac-Sarsat system and is being sent to the The RLS feature is an the double start of that continue to the User that the distress signal







912S-04073 v01.01

Weight (Inc. EPIRB) IEC60945 Category Operating Temperature Storage Temperature Waterproof (EPIRB) Auto Release Depth

Satellite Channels Sensitivity Cold Start / Re-acquisition GNSS Antenna General Dimensions of EPIRB (Inc. antenna)

Weight Dimensions of Auto Release Housing

Operating Time Battery Replacement Period **GNSS** Receiver

Battery Туре

Strobe and Night Vision Lights Light Type Light Colour Average Intensity Visible Average Intensity Night Vision Light Flash Rate

121.5MHz Transmitter Transmit Power (PERP) Frequency Modulation Duty Cycle Modulation Factor Frequency Stability Duty Cycle

AIS Transmitter Transmit Power (EIRP) Synchronisation Messages Repetition interval

Encoding Rate Frequency Baud rate

406MHz Transmitter Transmit Power (EIRP) Frequency Modulation

5.



1,912grams (4.25lbs Portable Class 2 -20C to +55C Class 2 -30C to +70C 10m depth for 1 hou 4m maximum

18.5 x 4.3 x 4.36 in. (470 x 109 x 111 mm) 1.78 lbs (810g) 6.2 x 15.75 x 5.9 in. (157 x 400 x 150 mm) 1.910 x 150 mm)

72 acquisition -167dBm -148dBm / -160dBm Microstrip Patch

Lithium Iron Disulphide (LiFeS2) >48Hours @ -20°C 10 years

High Intensity LED & Infrared (IR) White and IR >1 candela 15mW/s 24 per minute (nom.)

50mW±3dB 121.5 MHz >35% 0.85 to1.00 ±50ppm >98%

Message 1 (Position), Message 14 (Status) 8 messages/minute Message 14 sent twice every 4 minutes

1Watt±3dB 161.975/162.025MHz ±500Hz 9600baud UTC

Biphase L . 400 bps

406.031 MHz ±1KHz Phase ±1.1 Radians (16K0G1D)

Specifications

2. **OPERATION**

Æ WARNING: Use only in situations of grave and imminent danger. Deliberate misuse may result in a severe penalty.

Ensure that your beacon is always fitted with an unused battery that is within the marked expiry date. Failure to do so may result in reduced operating time when used in a real emergency. Please observe the recommendations on testing in section 9 of the User Manual.

- Category 1 beacons are designed to be automatically deployed and activated in the event of a vessel sinking. The beacon may also be manually taken out of the Category 1 bracket and activated manually or immersed in water to activate automatically. ⚠
- ⚠ Category 2 beacons are designed to be manually deployed from the Category 2 bracket and then activated manually or placed in the water to activate automatically.
- ∕∕∖ To prevent loss always secure the beacon to your person or life raft using the attached lanyard.
- ⚠ When active the beacon is designed to operate while floating in the water. For best operation do not take the beacon into a life raft or obstruct the upper case.

2.1 **Optical Indications on activation**

- The green 💓 LED will illuminate (blue 💓 if RLS is enabled) for 1 second.
- The strobe light will start flashing.
- Within 1 minute of activation, the indicator LED will flash a quick burst of 5 indicating 406MHz transmission*
- AIS transmission will be indicated by the LED flashing 8 times at 2 second intervals (green if a GNSS fix has been acquired or red 🤎 if there is no fix). This will not happen until after the first 406MHz transmission.

2.2 Deactivation

To deactivate your beacon after use or if it is accidentally activated, press the ON/OFF Key for 1 to 2 seconds until the LED flashes red twice, then release.

2.3 **Category 1 Automatic Activation**

When correctly installed in the Category 1 housing the beacon will automatically deploy before the housing sinks to a depth of 4m. As the beacon is released from the housing it will float to the surface, activating automatically.

For installation details see the full User Manual:



www.acrartex.com/products/globalfix-v5-ais-epirb

* The first 406MHz transmission is made between 48 and 52 seconds after activation.

3. TESTING

Routine testing of your beacon once a month is highly recommended to ensure it is in good working order. Follow the guidance notes in the User Manual for the frequency that tests should be carried out. Each test reduces operation time of your beacon in an emergency.

3.1 Functional test

To test your beacon is functioning correctly, press and hold the TEST key for 1 to 2 seconds. The LED will illuminate red of to indicate the key has been pressed, then start flashing. Release the TEST Key now. After a short pause the strobe will flash and the indicator LED will produce a flash sequence.

A passed test flash sequence indicates the total number of hours that the battery has already been in use, up to the time that the test was initiated.

LED Indications with RLS Enabled 3.1.1

No. of Flashes	Functional Test Pass	Fail
1	0 to 1hr 59min 💓	121.5MHz homer 💓
2	2hrs to 3hrs 59min 🂓	406MHz power ě
3	4hrs to 5hrs 59min 🂓	AIS signal 🂓
4	6hrs to 7hrs 59min 🂓	AIS Power 🌺
5	8hrs to 9hrs 59min 🂓	Battery failure 🥘
6	10hrs + 鯅	No GNSS 🍎

3.1.2 LED Indications for units configured with non-RLS Protocol

No. of Flashes	Functional Test Pass	Fail
1	0 to 1hr 59min 🂓	121.5MHz homer 💓
2	2hrs to 3hrs 59min 🌞	406MHz power 🤎
3	4hrs to 5hrs 59min 🤎	AIS signal 🧶
4	6hrs to 7hrs 59min 🔴	AIS Power 🌺
5	8hrs to 9hrs 59min 🌞	Battery failure 💓
6	10hrs + 🤎	No GNSS 🔴

Because this test transmits a short burst on the aircraft distress frequency of 121.5MHz, please only carry out this test in the first 5 minutes of each hour.

The battery must be replaced either prior to the expiry date shown on the rear label or after the GlobalFix V5 has been activated.

If, during a self test, the LED flashes magenta 💓 or amber 🔴 the GlobalFix V5 may not have sufficient energy to operate for the specified 48-hour period. Battery replacement is recommended.

> More information regarding test results is available using the Mobile App.

2.4 **Category 1 Manual Activation**

Rotate the blue knob on the front of the housing counter clockwise

⚠

- Pull the front of the housing free and allow to fall free
- Pull the beacon with steady pressure from the bracket



2.5 **Category 2 Manual Activation**

> Press the tab marked PUSH and pull the GlobalFix V5 EPIRB away from the bracket

Release the lanyard and attach it securely to

DO NOT ATTACH THE BEACON TO THE VESSEL AS THIS MAY SINK SUBMERGING THE BEACON OR YOU MAY DRIFT AWAY FROM THE VESSEL

Place the beacon in the water where it will

⚠ Should the beacon not activate raise the red safety cover and press the ON/OFF (key

for 1 to 2 seconds (Until the green LED starts

yourself or the life raft

activate automatically

to flash).

Release the lanvard from under the rubber cover and attach it securely to yourself or the life raft

DO NOT ATTACH THE BEACON TO THE VESSEL AS THIS MAY SINK SUBMERGING THE BEACON OR YOU MAY DRIFT AWAY FROM THE VESSEL

Place the beacon in the water where it will activate automatically

Should the beacon not activate raise the red safety cover and press the ON/OFF 🥘 key for 1 to 2 seconds (Until the green LED starts to flash).



ENSURE THE ANTENNA IS FULLY RELEASED

DO NOT LEAVE THE BEACON IN THE CATEGORY2 BRACKET IF THE VESSEL IS IN DANGER OF SINKING

3.2 **GNSS** Test

⚠ This test should only be performed where the GlobalFix V5 has a clear and unobstructed view of the sky. This is required to allow the GNSS receiver to acquire a signal from sufficient satellites to allow it to determine a position. Ensure the area marked "GNSS Antenna" is not obstructed.

It is recommended that a GNSS test is carried out at least once every six months to ensure correct operation of the GlobalFix V5.

Press and hold the TEST () key for 5 seconds. The LED will illuminate red () to indicate the key has been pressed, then start flashing. Shortly after, the LED will cease flashing and become a steady red 🔵 light. Release the TEST 🕞 key when the LED is steady.

During the GNSS test the LED will repeat a long red 🂓 flash followed by a short green 🂓 flash until either a position fix is obtained or the GNSS test fails.

A successful test will be indicated by a number of green (LED flashes and an unsuccessful test will be indicated by a number of red (LED flashes. The number of flashes indicates the number of GNSS tests remaining (e.g. 7 flashes = 7 tests remaining).

The test result flashes will be repeated after 2 seconds.

If there are 10 or more tests remaining then the LED will flash 10 times only (repeated).

The GlobalFix V5 has the capacity to carry out 60 GNSS tests within the lifetime of the battery.

If there are no tests remaining immediately after the current test, the LED will flash green or red not, respectively.

When there are no tests remaining, the LED will flash red 💓 rapidly for three seconds on key release (not repeated).

The test can be ended at any time by holding the TEST 😱 key for 1 to 2 seconds.

For further information regarding Self Test and Self Test history use the ACR Mobile App to connect to your GlobalFix V5 using Near Field Communication (NFC).

APPROVALS 4.

In addition to Cospas Sarsat Type Acceptance, the GlobalFix V5 complies with the following National Approvals:

4.1 European Union

Complies with the requirements of the EU Marine Equipment Directive (MED)

4.2 UK Complies with MSN 1874 as amended

4.3 USA Complies with FCC 47 CFR Part 80 and US Coast Guard requirements

Canada 4.4

Compliance with ISED RSS GEN and RSS182

Australia/New Zealand 4.5 Complies with AZ/NZS 4280.1-2017



See "www.acrartex.com/products/globalfix-v5-ais-epirb" for documentation.



NOTE:

