User's manual

W400
W400EX

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1/2016

WamBlee

Doc: Wamblee_W400_Users manual (US)


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ARMED


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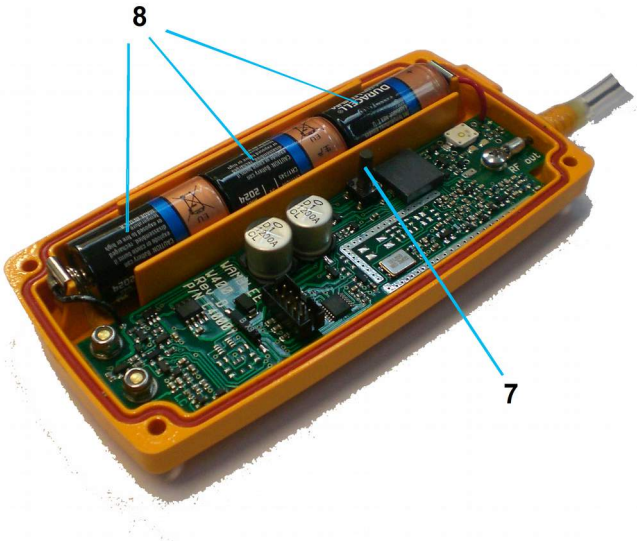
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Warning

This device must only be used in situations of serious, imminent danger.

Deliberate use in a non-emergency situation may lead to prosecution.

Keep the device at least 1 meter away from magnetic sources and any devices sensitive to magnetic fields.

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Introduction

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Congratulations and thank you for purchasing the W400/W400EX MSLD, one of the most high-tech, reliable devices available on the market.

The W400/W400EX, when activated, is capable of transmitting a radio signal at a frequency of 121.5 MHz, useful for locating people who are missing at sea.

As the owner of this radio device you are advised to:

- Read this manual.
- Activate your W400/W400EX ONLY in the event of an emergency.
- Prepare and check an emergency plan.
- Do not activate your W400/W400EX to check whether it is working properly: follow the test procedures described in this manual.

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This product has been evaluated for compliance with the FCC RF exposure limits given in CFR 47 part 1.1307(b) at a distance of greater than 7 cm.

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Technical specifications

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Emission frequency	121.5 MHz
Test frequency	121.5 MHz (with low power emission)
Emission power	+20 dBm typ. (> +14 dBm, < +23 dBm) < -23 dBm during test procedure
Modulation	A3X
Modulation tone	Dropping from 1500 to 400 Hz, twice a second
Light signaling	white LED, 70 mS flash repeated 20 times/minute
Antenna	Flexible wipe antenna with silicone rubber protective sheath
Duration of operation	> 6 hours at -20 °C
Operating temperature	from -20 C to +55 C
Stowage temperature	from -20 C to +70 C
Power supply	3 primary batteries $LiMnO_2$ 2/3AA (3 x 3 Volts)
Battery replacement	5 year from installation.
Dimensions	65 x 125 x 25 mm (antenna excluded)
Weight	200 g
Standard applied and compliance	RTCM 11901.1 + Addendum 1&2 EN60945 ETSI EN 300 152-1, -2 & -3 ITU-R M.690-1
Approval	CE 2067 ⓘ **FCC ID : XLK-W400**
ATEX approval (for W400EX version)	Ⓔx II 3G EEx i IIC T6

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Installation

The W400/W400EX device has been designed to be worn by the user.

The device can be installed directly on lifejacket using the mounting bracket and adhesive sticker to fix the antenna. The use of the MSLD unit with the antenna around the neck or close to the body, dramatically reduce the coverage area and is not recommended.

For this type of installation please consult the life jacket manufacturer of our representative Dealer.

Operation

Before wearing the device it is recommended that you proceed with a test of your W400/W400EX MSLD to ensure it is working properly; test procedures are described in the 'Functional Test' section of the manual.

How to "arm" your W400/W400EX MSLD

To ensure your device is ready for activation the knob (1) must be set to the 'ARMED' position.

Press the push button (2) inwards to release the safety lock. Then, keeping the push button pressed, rotate the knob anticlockwise until it reaches the 'ARMED' position, then release the push button (2).

Your W400/W400EX is ready to be activated in the event of an emergency.

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Automatic activation

If your device accidentally falls in the water it will, on coming into contact with the water, start working within approximately 5-10 seconds. The ‘water contact’ sensors are located on the rear of your device (3) and must be externally accessible; keeping your W400/W400EX in a waterproof pocket or a zone inaccessible to water will prevent its activation.

Activation of your W400/W400EX MSLD will be indicated by:

- A red light inside the flash lens (4)
- A beep emitted twice a second
- A white light flashing once every 3 seconds.

During this stage a radio signal will be emitted to aid localisation of the person in need of rescue.

Manual activation

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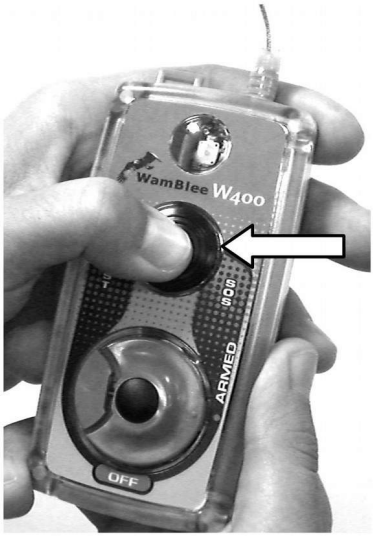
Should your W400/W400EX MSLD fail to activate automatically you can proceed with manual activation. After checking that the knob (1) is in the 'ARMED' position, press the 'Test/Activation' push button (5). Once pressed your W400/W400EX device will be activated the same way as it is in automatic mode.



Deactivation

To turning off your W400/W400EX it is necessary to rotate the knob (1) clockwise, repositioning it to 'OFF'.

Press the push button (2) inwards to release the safety lock and then, continuing to hold the push button down, rotate the knob clockwise until the 'OFF' position is reached, then release the push button (2).

The device will be deactivated and stop emitting radio signals.

Preventing accidental activation

To avoid accidental activation of your product, we recommend:

- When not in use, store it in a dry environment
- When not in use, make sure the knob (1) is positioned in OFF
- In the case of obvious malfunctions, if possible remove the batteries

In case of accidental activation

In the case of accidental activation involving transmission of a 121.5 MHz signal, the user should deactivate the W400/W400EX MSLD and notify the appropriate search and rescue authorities (e.g., U.S. Coast Guard or Rescue Coordination Centre serving the geographic area) at the earliest possible time.

Periodic checks and maintenance

Our W400/W400EX MSLD does not require special maintenance, it is only necessary to make a visual check (checking the integrity of the plastic case) every time you proceed with a periodic test or if there is a doubt about a possible plastic case damage and make a periodically functional check.

Compliance with the rules of test of safety devices operating at 121.5 MHz, the self test should be performed only within the first 5 minutes of any hour.
Make sure the knob (1) is in the 'OFF' position, then press the 'Test/Activation' push button (5) and release it.

The check, which lasts about 12 seconds, observes the following sequence:

- The red indicator light inside the flash lens (4) comes on.
- The green battery charge status light inside the flash lens (4) comes on.
- Flashing of the white flash

- A series of beeps in rapid succession indicating battery charge status.
- Once the check has been run all the indicator lights go out.

Device status	Green indicator	Beeps
Battery charged	On	4 rapid beeps
Battery almost charged	On	3 rapid beeps
Battery almost flat	On	2 rapid beeps
Battery needs changing	Flashing	1 rapid beep

Changing the batteries

The supplied batteries must be changed 5 years after their installation. Batteries must only be of the specific models approved by WamBlee; **of unapproved models may involve the malfunction or breakdown of the device**.

To change the batteries proceed as follows:

- Make sure the knob (1) is in the 'OFF' position.
- Use a suitable Phillips screwdriver to remove the 4 screws on the underside edges of the device (6).
- Remove the upper part of the case; if necessary tap the edge gently.
- Remove the three old batteries (8) and replace them with three new ones. Make sure they are installed the right way round (positive pole facing top of device).
- Press the push button (7) and check the test sequence as described in 'Periodic checks'.
- Re-close the upper lid, making sure the seal is inserted in its seat correctly and is not damaged. If you notice that the seal is damaged or see any infiltration of foreign matters inside the device replace the seal.
- Screw the 4 underside edge screws back in; tighten properly but not excessively.

The batteries should be disposed of properly and not thrown in the household trash. Check with authorized operators on proper disposal of used batteries indicating the chemical (Li-MnO_2).

Approved batteries

The batteries approved for your device unit are, at the time this handbook going to press, the following:

- VARTA CR2/3AH
- Duracell CR123A, DL123A

Please note that the new battery cell/pack shall be new or maximum not more of 2 Years old from date of manufacturing.

This list is continuously updated and can be consulted on the following website www.wamblee.it

Shipping

Within the delivery of the device, remove the internal batteries (see 'Changing the batteries') and ship the unit without the batteries using the original container or alternatively a carton after the apparatus with appropriately wrapped airball or bubblewrap.

Troubleshooting

Should the device fail to pass the periodic check it will be necessary to send your W400/W400EX to our after-sales service, which will restore proper performance.

A list of after-sales centres authorised to carry out maintenance on your device can be consulted on our website:

www.wamblee.it

Warranty

Your unit is covered by a 5 year parts and labor warranty. (battery excluded). Wamblee s.r.l. warrants to the purchaser that the products conform to manufacturers specifications and that the products are free of defects on materials and workmanship for a period of one year from the date delivered to the customer/end user. In the event of a defect, due to faulty material, design or construction, the customer will return to Wamblee at the business address were we, or the manufacturer will undertake, at our choice, a repair or replacement.

Warranty covers all parts, materials and labor, provided that the product is returned to our works. Exclusions: damage caused by other than normal use and lack of basic, general care carried out in accordance with the instruction manuals.

Wamblee s.r.l. does not accept any responsibility or any claim for direct or indirect consequences of defects of the equipment, either during the guarantee period or at a later stage.

Disclaimer

The Wamblee products are an aid to recovery only, it is the responsibility of the user/operator to ensure they are fully conversant with the operation of the equipment and the equipment is kept in full working order at all times combined with functionality and damage checks before and after each use.

Wamblee does not accept liability for loss of life or injury caused during any accident during which the equipment is being used, how so ever it arises. Wamblee Alerting Units/MSLDs are an ‘Aid to rescue only’, they do not guarantee your safety.

The Wamblee MSLDs will dramatically increase the chances of detection and location of a Man Over Board. Personal safety remains at all times the sole responsibility of the individual. It is the responsibility of the individual to inform their local Coast Guard, their senior personnel/crew members and or family of their intended location/destination and estimated duration of journey. It is also the responsibility of the individual to notify these people of the type of safety equipment they will be carrying. In the case of accidental activation the user should deactivate the unit and notify the appropriate Search And Rescue Authority.

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