

User Manual

Mooring
systems



Sistemi per
l'ormeggio



Made in Italy

www.pmemare.com



INDEX

Dear user, thank you for purchasing this product, entirely designed and manufactured in Italy.



WARNING: KEEP THIS MANUAL: IT CONTAINS THE IDENTITY CARD INDICATING THE TRANSMISSION CODE WHICH IS NEEDFUL FOR ANY DUPLICATION OF THE LIFT COMMAND. SAVE THESE INSTRUCTIONS, DELIVER THEM TO ANY SUBSEQUENT USER. VIDEOMANUAL AVAILABLE ON WWW.PMEMARE.COM

SAFETY PRECAUTIONS

CLIK uses a magnet placed in the upper part of the device which is useful for fixing it to the clip to the rail and it is also used to make the recovery from the water easy, by means of the magnetic boat-hook MHOOK-e . Magnets can affect the functioning of implanted pacemakers and defibrillators.



WARNING: KEEP CREDIT CARDS, DEBIT CARDS, IT DEVICES, MECHANICAL WATCHES, HEARING AIDS AND OTHER SENSITIVE TO MAGNETIC FIELDS DEVICES AT A SAFE DISTANCE OF MORE THAN 30 CM FROM THE MAGNET. EVEN PERSONS WITH PACEMAKER HAVE TO KEEP A SAFE DISTANCE OF MORE THAN 30 CM FROM THE MAGNET.

During sailing, never leave CLIK hooked to the holder to the rail: excessive oscillations may cause the buoy to uncouple, with its possible loss in the sea or damage. Remove the support from the rail and place it on the top of the buoy (as supplied into the package) to neutralize most of the magnet's magnetic field. Then place the buoy in a locker, always at a safe distance of at least 2 meters from the on-board compass.

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CLIK EASY TECHNICAL SPECIFICATIONS	
SMART CALLING SYSTEM	WIRELESS, MHOOK-e
SMART RETRIEVAL SYSTEM	MAGNETIC, MHOOK-e
TAPE LENGTH	8.5 METERS
MAX. OPERATION DEPTH	8 METERS
MIN. OPERATION DEPTH	1.2 METERS
SELF RETRACTING TAPE CAPACITY	120 Kg
NIGHT LIGHTING	STANDARD
UNDERWATER RECEPTION SYSTEM	ULTRA/COD 200Khz
BATTERY LIFE	UP TO 100 CYCLES (1)
CHARGING SYSTEM	SOLAR CHARGE
CHARGING TIME	16 HOURS (2)
WEIGHT	1,5 Kg

IMMERSION HOURS	CYCLES
8	25
4	50
2	100

The autonomy varies according to the time of immersion of the buoy, refer to the table to get an average indication of the useful cycles with fully charged battery.

- (1) Consecutive maximum cycles without solar recharge considering an immersion time of 2 hours;
- (2) CLIK can only use solar energy to recharge. When it is exposed to sunlight it recharges itself autonomously thanks to its solar cells.
- (3)

MHOOK-e TECHNICAL SPECIFICATIONS	
UNDERWATER TX SYSTEM	ULTRA/COD 200Khz
BATTERY LIFE (CYCLES)	UP TO 1000 CYCLES
BATTERY LIFE (YEARS)	UP TO 5
POWER SUPPLY SYSTEM	3 X AA ALKALINE

16 hours of sunshine are enough to recharge the battery if it is completely empty. Average charging time with completely empty battery considering an average daily insolation of 1000W / Mq. When it is unused for more than 2 minutes, the buoy enters the energy saving mode, emitting an acoustic signal and a blue flash one for 1 ".

When fully charged, CLIK can be stored in a locker and will retain its charge for a period of more than 6 months, ready to be reused. CLIK uses a coded and univocal transmission system that allows the ascent when called up, has a microprocessor that provides control of its peripherals, including:

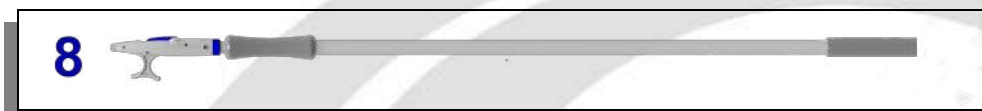
- Pressure sensor:** detects the depth of seabed and self-regulate according to that.
- Motion sensor:** detects motion, entering energy savings when CLIK is not used.
- Water sensor:** detects when it is submerged, turning on automatically.



PACKAGE CONTENTS



- 1 BUOY AND SNAP HOOK
- 2 QUICK GUIDE + CD USER MANUAL
- 3 BALLAST (2PCS)+ SCREWS + STRING
- 4 SHRINKABLE TUBE
- 5 SAFETY TAPE
- 6 CLIP TO THE RAIL
- 7 ELASTIC RINGS (2 + 2 PCS.)
- 8 BOATHOOK MHOOK-e



WARNINGS



CAUTION: IN ABSENCE OF THE IDENTIFICATY CARD, OF THE RECEIPT OR OF THE PURCHASE INVOICE PME MARE WILL NOT PROCEED WITH THE DUPLICATION OF THE TRANSMISSION MODULE HOLDDED INTO MHOOK-E.

CLIK is set up to be used at a depth between -2.5 and -8 meters; pressure sensor detects at which depth it is immersed. In case of use on higher depths, extend the tape – mooring line joint with a rope. (page 3)



CAUTION: USING CLIK ON SHALLOW WATER, PAY ATTENTION TO THE DANGER THAT PROPELLERS, STERN DRIVE AND DRIFTS DO NOT COLLIDE WITH THE BUOY, DAMAGING IT IRREMEADIABLY.

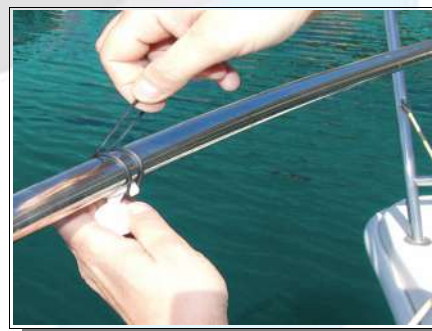
The manufacturer declines all responsibility and invalidates the warranty for damage to the device caused by contact with propellers, stern drive and any other body. If the maximum depth of -10 meters is exceeded for more than 30 seconds, the device goes into protection and its operation is deactivated. When it is switched on again, it will emit a visual and acoustic signal indicating that it is deactivated: see the diagnostic chapter (page 6). In this case the validity of the guarantee is automatically canceled. The device must be delivered to the service center for verification and restoration of operation; in case of temporary exceeding of the maximum depth of -10 meters CLIK will release its 8,5 m of tape partially surfacing, in order to protect itself from over-pressure.

In the event of accidental falls or blows, check carefully that there are no cracks or fractures on the surface, in this case request assistance from the service center and do not immerse the device in water for any reason in order not to further compromise its operation. Do not force the self-wrapping tape over the red limit switch, otherwise you risk compromising the internal mechanisms. Any repair operation must be carried out at the Pme Mare service center through your local dealer.

SETTING

CLIP TO THE RAIL

Install the magnetic clip on the rail, securing it with 2 of the 4 rubber rings supplied. Choose the rings with a smaller diameter for a rail diameter from 20 to 30mm, or the larger ones for rails with a tube diameter of more than 30mm.



Approach the upper part of CLIK to the clip, it will automatically couple thanks to the magnet.

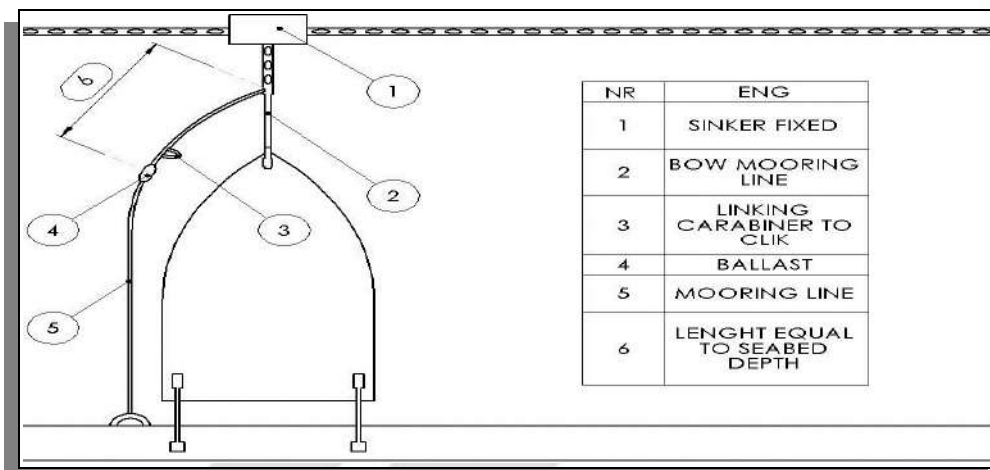
Further secure CLIK using the safety tape: first fix the safety tape on the rail, then insert the ribbon into the eyelet and turn it round itself.





BALLAST FOR THE MOORING LINE

CLIK needs at least 1.5Kg of ballast to get to the seabed; it has to be applied on the mooring line and be positioned at a distance from the catenary junction point with the rope equal to or greater than the depth of the seabed. In case of use on seabed less than - 2.5 meters it is advisable to increase the ballast to prevent excessive movement of the buoy or an accidental contact with the propellers due to the currents caused by the boat, **pay close attention in this regard**



For example, if you have 4 meters of seabed, the buoy has to be fastened to the mooring line at a distance of at least 4 meters from the catenary junction point with the rope. It is not advisable to reduce this distance. NB In case of use in depths of more than -8 meters, lengthen the tape-mooring line joint with a rope, otherwise CLIK will not re-emerge from the seabed.

TYPE A: (2 parts + screws) Install the ballast by connecting the two halves with the mooring line and the string in the middle (1), using the screws provided. (see image).

TYPE B: (1 part + clamps) pass the mooring line and the string through the groove, and block with the supplied clamps.

Once the correct positioning has been verified, insert the supplied heat-shrink sheath on the lead, heating it with a lighter to make it adhere, leaving part of the connecting string to escape.



(1) The connecting string will be used to connect the end of the CLIK self-wrapping tape to the mooring line whenever you leave the moorings. In case of use in areas subject to subsea currents or in less than -2.5 meters seabed it is advisable to double the weight of the ballast to prevent CLIK from moving from the bottom due to the current caused by the propellers.

FIRST SWITCHING ON



RECHARGE THE BATTERY BEFORE PROCEEDING WITH THE INITIAL SWITCH-ON OPERATION, PLACING THE DEVICE AT SUNLIGHT FOR AT LEAST 8 HOURS.

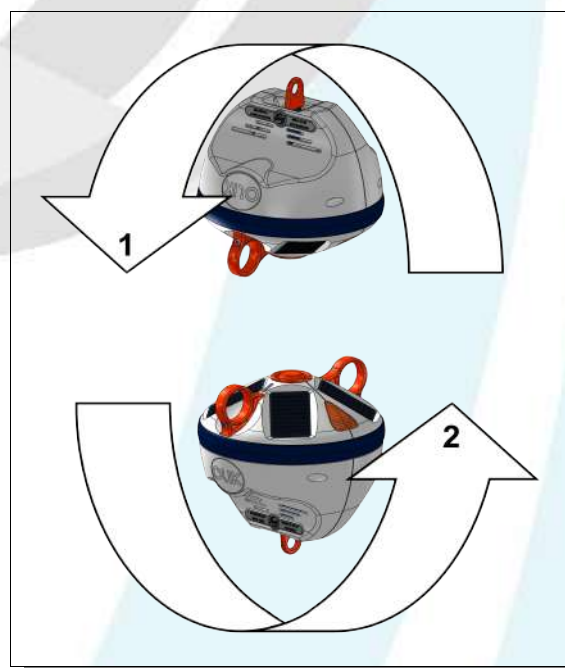
FIRST SWITCHING ON OF CLIK

The first switch on takes place only by immersing CLIK in water: CLIK is delivered with a protection that prevents false ignitions during transport; Immerse the buoy in water, it will turn on; after 2 minutes of inactivity it will switch off, emitting a BLUE light and acoustic signal for 2 ".

Subsequently, to check CLIK's level of battery charge, carry out the following procedure (with the buoy off):

- (1) Turn the buoy upside down for at least 2 "
- (2) Return the buoy vertically

The device in this position will be activated within 2 "and will emit acoustic and luminous signals (corresponding to the battery charge level); A subsequent continuous WHITE flash will highlight the ignition status. After 2 minutes of inactivity it will switch off, emitting a BLUE light and acoustic signal for 2 ".



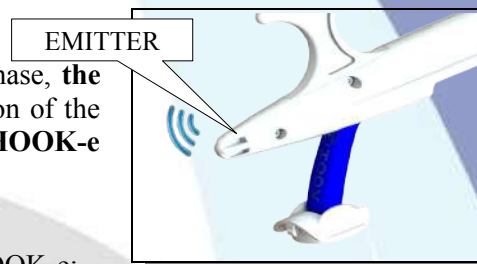


FIRST SWITCHING ON OF THE SMART BOATHOOK MHOOK-E

BATTERY LEVEL	
100% - 75%	4 BEEP
75% - 50%	3 BEEP
50% - 25%	2 BEEP
25% - 5%	1 BEEP
< 5%	LONG BEEP

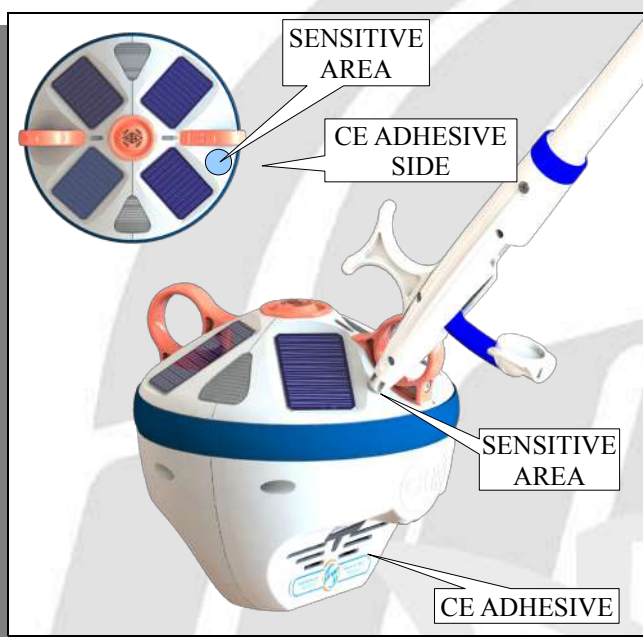
MHOOK-e contains the coded call system that allows CLIK to surface: MHOOK-e turns on when the magnetic clip is fully opened: initially it emits acoustic signals indicating the battery charge level, followed by an Intermittent BEEP, lasting 40 seconds, to indicate the transmission of the recall code. **Close the magnetic hook to switch MHOOK-e off.** With battery <5%, the recall code is no longer transmitted.

The signal is sent via the emitter placed on the tip of MHOOK-e: in this phase, **the tip must always remain in contact with the water** to allow transmission of the code to the buoy. **Close the magnetic clip at the end of use to switch MHOOK-e off.** Flush the device with fresh water.



CALL SYSTEM CHECK

Use the following procedure to test the buoy call system by means of MHOOK-e:



Switch CLIK on, by performing the following procedure:
 (1) turn the buoy upside down for at least 2";
 (2) bring the buoy back upright

In this position the device will be activated within 2" and will emit acoustic and luminous signals (corresponding to the battery charge level); A subsequent continuous WHITE flash will highlight the ignition.

Switch MHOOK-e on, opening the magnetic clip, and after the battery test, during the intermittent beep, place the tip of MHOOK-e on the sensitive area.

CLIK will respond with a series of BEEPs every time the coded call issued by MHOOK-e is received, and the tape release system will be reset.

Warning: placing MHOOK-e exactly in the sensitive area is essential for the success of the test.

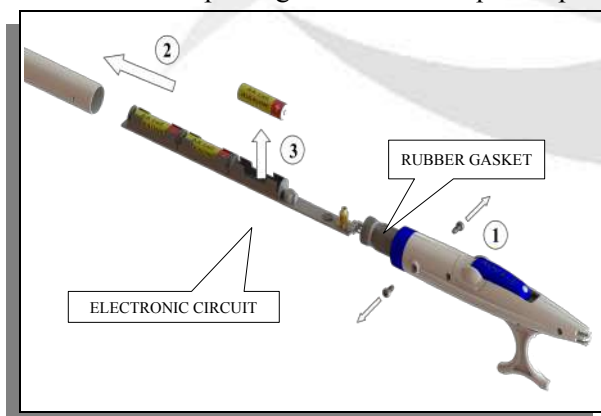
REPLACING MHOOK-e BATTERIES

MHOOK-e is designed to have a battery life of a few years before changing them, however when the battery level is <25%, it is advisable to replace them.



WARNING: ALWAYS REPLACE THE BATTERIES WHEN LEVEL IS <5% (LONG BEEP) IN ORDER TO AVOID POSSIBLE LOSS OF ACID WITH CONSEQUENTIAL DAMAGE TO THE INTERNAL CIRCUITS. BATTERIES TO BE REPLACED ONLY BY EXPERT PERSONNEL, OR AUTHORIZED SERVICE CENTER, CONSULT YOUR DEALER.

Procedure for replacing batteries. In sequence perform the following steps:



- (1) Unscrew the 2 screws: Use a screwdriver with Torx T15 insert
 - (2) Remove the rod: Pay attention to the electronic circuit. If it is present, remove the heat-shrink tube protecting the circuit.
 - (3) Replace the batteries: use high quality alkaline batteries. Insert a new heat shrinker if it was present.
- Proceed with reassembling the rod, taking care to insert the control circuit inside it.

To facilitate the sliding of the bar, it is advisable to grease the rubber gasket with silicone grease. Make the screw holes coincide, and retighten. Tightening torque 1N.



CAUTION: DESPITE MHOOK-e IS COMPLETELY WATERPROOF IMMERSE ONLY ITS TIP TO ALLOW THE SENDING OF CALL SIGNAL. DO NOT EXERCISE AN EXCESSIVE FORCE ON THE ARPION THAT COULD CAUSE THE INPUT OF WATER INSIDE THE DEVICE WITH CONSEQUENT DAMAGE.



WAY OF USE

RELEASE OF THE MOORINGS

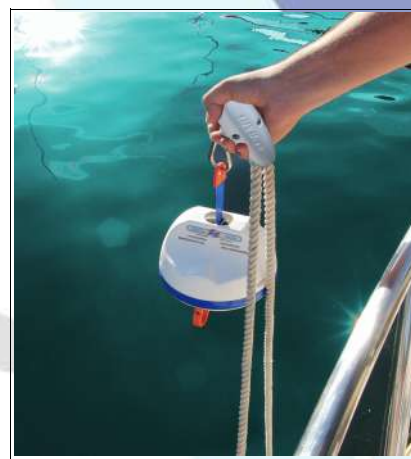
If the level of Klik's battery charge is unknown, carry out the procedure described on page 3 (Initial lighting of the klik buoy). CLIK has water sensor that allows the ignition when the buoy comes on contact with water even without performing the ignition procedure described above.



TEST CLIK AT FIRST USE TO CHECK THE PROPERNESS OF THE INSTALLATION BEFORE RELEASING THE MOORINGS



WARNING: IF THE BATTERY LEVEL IS TOO LOW (<5%) THE BUOY WILL NOT TURN ON.

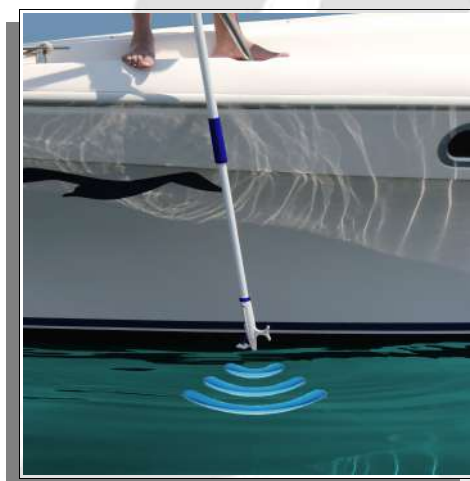


Connect the end of the CLIK self-wrapping tape to the connecting string (previously interposed between lead and mooring line) using the carabiner. **Immerse the buoy in an upside down position always driving it into the water through the mooring line (1), by grabbing it from the connection between snap hook and ribbon (see photo on the side) to avoid forcing the internal mechanisms.** Complete the procedure leaving the moorings.

(1) This operation prevents the mooring line from positioning above CLIK and hindering its ascent.

COMING BACK TO BERTH

When mooring, once fixed the ropes over the boat stern, call CLIK using MHOOK-e:



To send the code open the magnetic clip completely: MHOOK-e will emit a series of acoustic signals corresponding to the battery charge level; then, it will start transmitting the code, (intermittent BEEP) for a duration of 40 seconds, then it will switch off.

Within this period, dip the tip of MHOOK-e into the water, and hold it immersed until CLIK comes up. If you have a sounder, turn it off to avoid possible interference.

INFO: ADDITIONAL INFORMATION ABOUT MHOOK-e ARE AVAILABLE IN THE FIRST IGNITION SECTION, PAGE 4



CLIK will come up to the surface near the bow of your boat emitting a flashing WHITE/BLUE color light signal. Recover CLIK with the magnetic clip of MHOOK-e coupled to the special magnet placed on the top of the buoy. Place CLIK on the magnetic clip to the rail, securing it with the safety tape

Proceed with the recovery of the self-wrapping tape connected to the mooring line. Once the rope has been recovered, **unfasten CLIK from the rope through the snap hook**, and finish the mooring.

Recover the tape only by manual action: the recovery through the use of the winch may damage the tape and break the eyelet, for exceeding its maximum capacity equal to 120kg.



It is recommended to rinse CLIK with fresh water after each use; You can leave it temporarily attached to the clip to the rail, allowing the battery to be recharged, or placed in a locker, ready for later use. After 2 minutes of inactivity the buoy will turn off. Always wait until the buoy is off before using it again. In case you need to recover the buoy manually when immersed (through the mooring line for example), it will automatically turn off emitting a RED color light signal.



DIAGNOSTICS

CLIK uses the following light and sound signals for diagnostics:

INDICATION	COLOR	CODE
BATTERY 100% 75%	WHITE	4 FLASH + 4 BEEP
BATTERY 75% 50%	WHITE	3 FLASH + 3 BEEP
BATTERY 50% 25%	WHITE	2 FLASH + 2 BEEP
BATTERY 25% 5%	WHITE	1 FLASH + 1 BEEP
BATTERY <5%	RED	5" +LONG BEP
SURFACING	WHITE/BLUE	LASTING 120"
SWITCHING OFF	BLUE	LASTING 2"
OPERATIVE	WHITE	FLASHING

ERRORS	COLOR	CODE
1 TAPE RELEASE (WHEN SWITCHING OFF)	RED	LASTING 2"
2 PRESSURE SENSOR	WHITE/RED	LASTING 5"
3 INSUFFICIENT DEPTH (<1.2m)	BLUE	FIXED
4 MAXIMUM DEPTH EXCEEDED (>10m)	RED	FLASHING 60"
5 MECHANICAL ANOMALY (WHEN SWITCHING ON)	RED	LASTING 10"

ERROR REPORT AND PROBLEM SOLVING

1=> Error indicating a temporary malfunction of the belt release system but the buoy continues to operate correctly. If the signal persists over time, a revision is necessary, as problems may arise in the ascent. **In the event that Clik releases the tape when it is switched off, proceed with the reset operation: turn the buoy on and do not submerge it, wait for it to turn off (about 2 minutes).**

2=> Error indicating that the pressure sensor has not been calibrated (it comes on at power-up after the indication of the battery charge level) After this error the buoyer turns off. Repeat the power-up operation, if the error persists, contact the service center.

3=>Error indicating incompatible minimum depth of the seabed, less than -1.2 meters. Use the buoy at higher depths.

4 => Error indicating the exceeding seabed maximum depth, greater than -10 meters. If the buoy exceeds this depth it enters protection mode. Contact the service center. In case of temporary exceeding of the maximum depth of -10 meters CLIK will release its 8,5 m of tape partially surfacing, in order to protect itself from over-pressure.

5 => Error indicating the need to reset the belt release system or water inside the buoy (occurs at power on after the indication of battery charge level). After this error, the buoy automatically attempts to reset the belt release system, issuing at the end a WHITE color continuous flash. If the operation is not successful, the buoy turns off by emitting a RED light signal. In this case do not use the buoy and contact the service center as soon as possible. This error can also occur as a result of an accidental collision, which can cause water infiltration.

THE BUOY IS CALLED BUT IT DOES NOT RE-EMERGE: CAUSE AND RESOLUTION

Clik turned off	=> Recharge CLIK in the sun at least 8 hours before using again
MHOOK-e batteries off	=> Replace MHOOK-e battery
The echo sounder disturbs the recall code	=> Turn off your echo sounder
MHOOK-e sends the call code last	=> Turn MHOOK-e on and quickly immerse the tip
Mooring line positioned above the buoy	=> Remove the obstacle
CLIK does not completely re-emerge	=> Seabed > -8,5m, extend the tape with a rope (page 3)

MAINTENANCE

CLIK is free of components subject to wear. Do not clean the device using aggressive chemicals and degreasers. Rinse CLIK with fresh water after each use. Keep the solar cells clean for better battery charging efficiency. Dry the buoy before storing it inside the boat. Contact your dealer in case of failure. Do not intervene on the device for any reason.

USAGE RESTRICTIONS



Before use, make sure that you meet the requirements for the safe installation of CLIK :

SEABED DEPTH:

The depth of the seabed must be between -1.2 meters and -8 meters, at low tide. Lower depths will prevent the use of CLIK buoy, higher depths require an extension to be placed between the self-wrapping tape and the mooring line.

IMPORTANT



FIRST USE

RECHARGE THE BUOY AND ONLY AFTER, MAKE THE FIRST IGNITION!

Expose the CLIK for at least 8 hours in direct sunlight for partial recharging of the battery.

BALLAST TO SINK THE BUOY:

Thanks to a 1.5kg ballast (supplied into the package) to be applied to the the mooring line, CLIK will lay on the seabed (Setting page 2). In case of use on seabed less than - 2.5 meters it is advisable to increase the ballast to prevent excessive movement of the buoy or an accidental contact with the propellers due to the currents caused by the boat, **pay close attention in this regard.**

DISPOSAL AND ENVIRONMENTAL PROTECTION

At the end of the useful life of the device, disposal must be performed in compliance with national and / or regional legislation, taking into account the recycling possibility of any components or materials .

The unit contains a rechargeable lithium polymer battery. The device must be properly disposed as an electronic device



CAUTION: ELECTRICAL AND ELECTRONIC EQUIPMENT WASTE SHOULD BE ACCORDING TO THE PROVISIONS OF EU DIRECTIVE 2012/19/UE (RAEE)

WARRANTY

The general warranty becomes void if the product is improperly used , in not compliant purpose for which it was built. The warranty becomes void if the product is improperly maintained , damaged, opened and if different from intended uses operations are carried out .Any parts altered or modified by unauthorized persons are excluded from the warranty conditions and possible consequent damage to persons or things can nowise be attributed to the manufacturer . In case of use contrary to the instructions , any damages arising from other purposes use , tampering or failure to follow instructions , the manufacturer accepts any responsibility and is not authorized to apply the terms of guarantee.

The purchase of your product is protected by the rules and guarantees in your country. The seller guarantees the product for the period of law from the date of sale and guarantees the smooth operation of the product and the good quality of the materials. During the warranty period, the seller agrees to provide for the repair or replacement free-based seller of defective parts or construction defect, provided that these parts are delivered, at the express written request of the seller, the seller's premises the same carriage. The warranty deficiencies and failures resulting from misuse of the product, improper maintenance, modifications made without the agreement of Seller, normal wear and tear, malfunctions due to a realization does not comply with the installation instructions provided in the user manual. Also they excluded from the guarantee breakage caused by pressure operation above the maximum operating indicated in the user manual. All transport charges for returning the defective goods are held by the buyer. Batteries when included are excluded from the guarantee.