

PREMIUM
ALPINE
PERFORMANCE



MANUAL PIEPS MICRO

07 17
Firmware v2

ENGLISH

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1. INTRODUCTION

Dear winter sports enthusiast!

Congratulations on having purchased one of our products.

The PIEPS MICRO is the smallest and lightest device with 3 antennas! The sensor technology for simple operation and cable-free device management via Bluetooth® make the PIEPS MICRO an avalanche beacon of the latest generation. Vibration during initial detection enables the best possible focus on the visual surface search.

Naturally, the PIEPS MICRO also has all tried and tested PIEPS features:

- Circular detection range for fast, stable initial detection
- Perfect signal processing, even in difficult situations (multiple burials)
- MARK function
- Continuous carrier indication
- Comprehensive self-check and simple group check
- Smart Transmitter: Auto-Antenna-Switch in case of external interference, iPROBE-Support
- Auto-Search-to-Send for secondary-avalanche burial

An avalanche beacon does not protect against avalanches! Detailed knowledge of avalanche prevention is as indispensable as regularly practicing searching for victims in an emergency. The following procedures and tips relate only to special usage in conjunction with the PIEPS MICRO. The basic line of action in an emergency – as explained in specialist publications and material from avalanche courses – must be followed.

With the PIEPS MICRO (hereinafter referred to as the MICRO), you have a product that is state of the art in terms of safety and user-friendliness. Despite this, the MICRO can pose risks if used inappropriately or incorrectly. We refer to possible hazards in [chapter 2](#) and with safety notes placed throughout the operating manual.

This operating manual is intended to ensure the safe use of the MICRO. The safety instructions in this document must be followed at all times.

Before you use the MICRO, you must have read and understand this operating manual.

Pieps GmbH is not liable for technical or printing errors in this operating manual, neither is any liability accepted for damage caused directly or indirectly by the delivery, performance or use of this operating manual.

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Pieps GmbH, July 2017

1.1 IDENTIFICATION

The MICRO is identified on the device and on the packaging in accordance with applicable regulations.



Identification on the device



Identification on the packaging

CE identification according to:

- RED RL 2014/53/EU
- EMV 2014/30/EU
- RoHS 2011/65/EU

1.2 LIABILITY

The information contained in this operating manual describes but does not guarantee the features of the product.

No liability is accepted for damage caused by:

- Improper use
- Failure to follow the operating manual
- Unauthorized modifications of the MICRO
- Improper work on and with the MICRO
- Continuing to use the MICRO despite evidence of wear and tear
- Unauthorized, improperly carried out repairs
- Emergencies, external influences or force majeure

NOTICE

Alterations or modifications not explicitly approved by the manufacturer will result in you no longer being allowed to use the device.

1.3 WARRANTY CONDITIONS

The manufacturer provides a 2-year warranty covering manufacturing and material defects of the MICRO from the date of purchase. Exceptions are the battery, carrying system, hand-loop and bag as well as any damage caused by improper use or dismantling of the device by unauthorized persons. Any other warranties and liability for consequential damage are expressly excluded. For warranty claims, please take proof of purchase and a description of the fault to the point of sale.

1.4 SUPPORT

For technical problems, please contact Support: support@pieps.com

1.5 INTENDED USE

The MICRO serves as an avalanche victim search device (avalanche beacon) for the localization of buried persons and must only be used as intended. Any other use requires the written consent of Pieps GmbH. Improper use can put individuals at risk and result in the device being damaged. The MICRO is not an automatically functioning device with partly automated functionalities – for this reason, the MICRO may only be commissioned after having read and understood the documentation. Failure to use the device as intended will result in all liability and warranty claims being rejected. The MICRO is to be operated only under the conditions of use described in the documentation.

1.6 TARGET GROUP AND PREVIOUS KNOWLEDGE

An avalanche beacon should be part of the avalanche emergency equipment of everyone who ventures off secured pistes into open, unsecured terrain (e.g. ski tourers, freeriders, mountain rescuers, etc.).

Users of the MICRO must meet the following conditions:

- Read and understand this operating manual.
- Users with impaired vision must ensure that they can read the labelling and displays on the device as well as the instructions in the documentation without problem.
- If users with impaired hearing are unable to hear the acoustic signal, they must ensure that they can correctly interpret the display indications in accordance with the instructions in the operating manual.
- Regular training ensures safe and efficient use of the MICRO.

1.7 OPERATING LIMITS

The operating limits of the MICRO are defined as follows:

- Ambient temperature: Guaranteed for use between min. -20°C (-4°F) and max. +45°C (+113°F).

1.8 ESSENTIALS

The MICRO meets the current state of technology and the applicable health and safety regulations. However, incorrect operation or misuse can give rise to hazards for:

- the life and health of the users or third parties
- The MICRO and property of the operator
- The efficient use of the MICRO

1.9 TECHNICAL DATA

Name	PIEPS MICRO
Transmission frequency	457 kHz (EN300718)
Power supply	1x Alkaline, AA, LR6, 1.5 V or 1x Lithium, AA, FR6 (FR14505), 1.5V
Battery lifetime	min. 200 h in send-mode
Maximum range	50 m
Search strip width	50 m
Dimensions (LxWxH)	106 x 74 x 20 mm
Weight	150 g (incl. battery)
Temperature range	-20°C to +45°C (-4°F to +113°F)

2. SAFETY

This operating manual is structured in accordance with the applicable EU regulations and contains safety instructions. Each individual is personally responsible for complying with the safety instructions. This chapter contains all safety-related information.

Should anything be unclear or difficult to understand, please contact our support team.

2.1 SIGNAL WORDS USED IN THE SAFETY INSTRUCTIONS

DANGER

Imminent threat to the life of individuals

A safety instruction with the signal word DANGER indicates an imminent threat to the life and health of individuals!

WARNING

Risk of personal injury (serious injuries) and possible material damage

A safety instruction with the signal word WARNING indicates a dangerous situation which could affect the health of individuals.

CAUTION

Risk of material damage and possible minor risk of injury

A safety instruction with the signal word CAUTION indicates a possibly dangerous situation which could primarily result in material damage.

NOTICE

This symbol with the text NOTICE indicates supporting information for installation, operation or maintenance and repair.

2.2 GENERAL SAFETY RULES AND OBLIGATIONS

The following safety rules and obligations apply in general for using the MICRO:

- The MICRO may only be used in a perfect condition.
- It is forbidden to alter or change the MICRO without the written permission of Pieps GmbH.
- Do not attempt to rectify faults or damage without authorization. Instead, you must contact support, who will tell you how to proceed. The MICRO must not be used until the damage has been rectified.
- The safety and operating instructions in the operating manual must be followed at all times.

2.3 RESIDUAL RISKS | WARNINGS

Even though the MICRO has been designed with maximum care and all safety-related facts have been taken into consideration, residual risks may exist and must be evaluated by means of a risk assessment. All residual risks and warnings from the risk assessment are listed in this chapter.

⚠ DANGER ***Risk of getting caught in the device's carrier***
Always fasten the device in the provided carrier on descents. Ensure that the carrier lies close to the body. When performing a search, the MICRO must be held by hand.

⚠ CAUTION ***Risk of crushing when closing the battery compartment and when turning the device on/off***
Be aware of any risk of crushing when closing the battery compartment and when turning the device on/off.

⚠ WARNING ***Risk of hearing damage due to the high noise level***
Never hold the device directly next to your ear. A minimum distance of 50 cm is recommended.

⚠ DANGER ***Risk of explosion from incorrectly used batteries***
Use batteries of type "Alkaline, AA, LR6, 1,5V or Lithium, AA, FR6 (FR14505), 1.5V"!

⚠ CAUTION ***Risk that the displayed battery level is incorrect***
Use batteries of type "Alkaline, AA, LR6, 1,5V5V or Lithium, AA, FR6 (FR14505), 1.5V"!

⚠ CAUTION ***Risk of extreme temperatures***
Do not expose the device to extreme temperatures. Store the device so that it is protected from direct sunlight. Extreme temperatures can impede operation or damage the battery.

NOTICE

It is recommended to secure the device to the belt system with a fixing strap or to the wrist with a hand loop during use. This is intended to prevent the device from becoming lost.

NOTICE

The user must read the operating manual.

3. PACKAGING

Ensure that the device is transported only in the packaging provided. The device can be damaged if transported in insufficient or defective packaging. Furthermore, the device must not be exposed to moisture or heat at any time during transport.

If stored for an extended period, the device should be stored in its original packaging in a dry place. This is to avoid corrosion and soiling.

3.1 UNPACKING

Remove the MICRO carefully from the packaging, remove all transport safeguards and check whether all parts contained in the scope of delivery are accounted for. It is recommended to retain the original packaging in case the device has to be returned.

NOTICE

Dispose of the packaging and transport safeguards in an environmentally friendly manner (paper to paper, plastic to plastic, etc.).

3.2 SCOPE OF DELIVERY

- 1x PIEPS MICRO
- 1x Battery (in battery compartment)
- 1x PIEPS MICRO Carrying system
- 1x PIEPS Hand loop
- 1x PIEPS MICRO Bag
- 1x Quick manual
- 1x Registration card
- 1x PIEPS Sticker



NOTICE

Check that the contents are complete and undamaged after unpacking. If necessary, contact your point of sale or our support team.

4. GENERAL DESCRIPTION

4.1 SENSOR INFORMATION

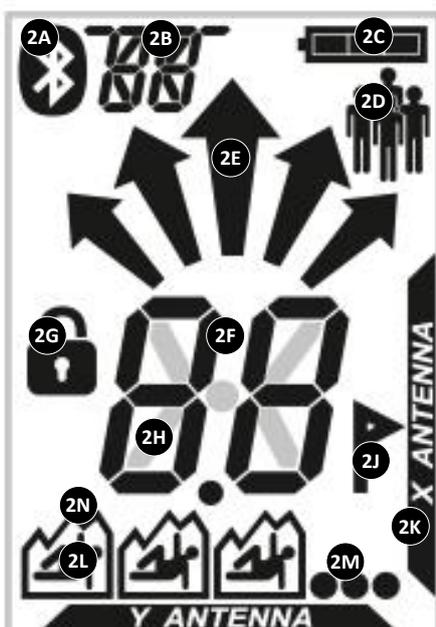
The proximity-sensor (1F) is used for automatic switching from Send to Search mode. The sensor detects whether it is covered or not. This feature also works in darkness.

To prevent accidental switching back to Send mode during the search, Search mode is blocked (SEARCH-LOCK, 2G) as soon as you take the MICRO out of its carrying system. The MICRO remains in the locked Search mode even if you return it to the carrying system during probing or digging. To return to send mode, release the SEARCH-LOCK (1C) and place the device in the carrying system. See also chapter 4.7 & 4.8.

4.2 STRUCTURE



- (1A) MARK Button
- (1B) Transmit Control LED
- (1C) “Release SEARCH-LOCK ” info symbol
- (1D) LCD display (backlight)
- (1E) Battery compartment
- (1F) Proximity sensor
- (1G) Battery polarity
- (1H) Loudspeaker
- (1J) Main switch ON/OFF, access to battery compartment



- (2A) Bluetooth® active
- (2B) Auxiliary display
- (2C) Battery capacity
- (2D) Group check
- (2E) Direction indicator
- (2F) Distance indicator
- (2G) SEARCH-LOCK (search mode blocked)
- (2H) Transmit indicator
- (2J) MARK (marking possible)
- (2K) Current sending antenna
- (2L) Number of burials (1-3)
- (2M) Number of burials (4 or more)
- (2N) Transmitter marked

4.3 QUICK START IN 3 STEPS

Your **PIEPS MICRO** is ready for use directly out of the box.

Step 1: Place the carrying system by laying the strap over your head and shoulders. Pass the body belt around your back, connect the quick release and adjust to the required length.

Step 2: Switch the MICRO on (main switch 1J ON) and wait for it to complete the self-check.

Step 3: Place the MICRO in the carrying system, check the Transmit control LED (1B) and enjoy your tour.



PIEPS recommends using the MICRO carrying system (A) or using the MICRO Bag with hand-loop (B), if the MICRO is carried in a securely closeable clothing pocket.



4.4 SWITCHING ON | SELF-CHECK

Switch the MICRO on by turning the main switch (1H) to the ON position.

The display shows the current firmware-version and the selected battery type. At the same time, an extensive self-check is performed and all relevant system components are tested.

NOTICE

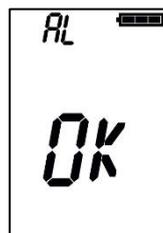
A minimum distance of 5 m from other devices and all electronic, magnetic and metallic sources of interference should be kept during the self-check. Ensure that the sensor is not covered during the self-check.

If the self-check is successful, "OK" is indicated on the display. In the event of a device warning, an alert signal sounds and the display indicates "E" in combination with a warning-code.

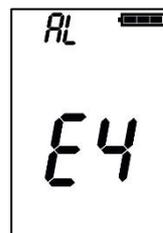
A covered sensor during the self-check leads to a warning: the MICRO beeps and vibrates and "ST" for "Sensor test error" is shown in the additional display (2B). ([see also chapter 6.1](#))



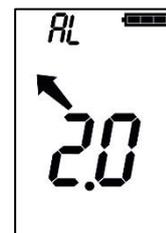
Firmware-Version (1.0)



Self-check OK



Self-check error



Sensor test error

Batterie-Type (AL=Alcaline
LI=Lithium)

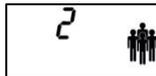
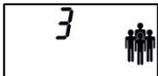
IMPORTANT! If the battery type is changed, you have to follow the instructions in [chapter 6.2](#)

4.5 GROUP CHECK

Despite the extensive self-check, PIEPS recommends that all users perform a beacon check before each tour. The MICRO is equipped with a group check function. This simply and efficiently checks whether the partner avalanche beacon is sending (send check) and whether the send parameters meet the standard.

Activating the group check function:

- Switch the MICRO on
- Wait until “Group check” appears on the display.
- Press and continue to hold the MARK button



3-second-countdown

The group check function is active as long as the MARK button is pressed. Release the MARK button to end the group check function. After a countdown of 3 seconds, the MICRO automatically switches to Send or Search mode:

- Sensor covered => Send mode
- Sensor not covered => Search mode

The group check function can be activated again during the 3-second countdown.

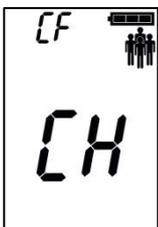
NOTICE

The maximum range in group check mode is 1 m.

Fast and Extended group check

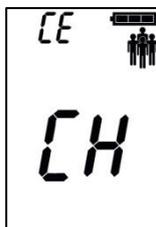
The MICRO has two group check modes:

- Fast group check: checks transmitting signal and frequency
- Extended group check: checks transmitting signal, frequency, signal duration and period duration



Fast group check

CF = Check Fast



Extended group check

CE = Check Extended

The “Fast group check” mode is set by default. The required mode can be selected in the PIEPS APP ([see also chapter 5](#)).

The “Fast group check” is sufficient for checking modern, digital devices with 3 antennas.

The “Extended group check” is recommended for checking old devices (analog single-antenna devices).

Result of Fast group check; CF=Check Fast



Device not sending or distance too large (> 1 m)

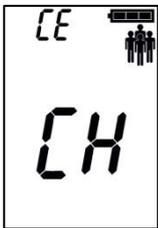


Device sending
Transmission parameters according to standard



Device sending
Sending frequency not according to standard

Result of Extended group check; CE=Check Extended



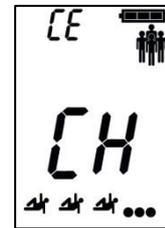
Device not sending or distance too great (> 1 m)



Device sending
Transmission parameters according to standard



Device sending
One or more sending parameters not according to standard



Several senders within 1 m => Increase distance



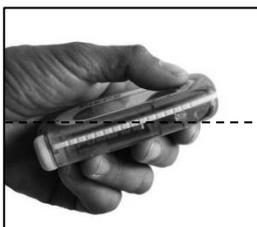
Continuous carrier indication ([see chapter 4.9.6](#))

Group check professional mode

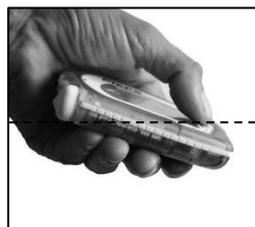
The MICRO has a professional mode that makes it easy to change between receiving and transmitting, even during the group check:

- Tip the MICRO downwards to transmit in group check mode
- Tip the MICRO upwards to receive in group check mode

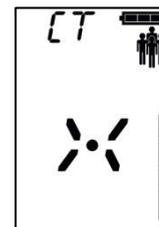
Professional mode is deactivated by default. The feature can be activated in the PIEPS APP ([see also chapter 5](#)).



Pro-Mode "SEARCH"



Pro-Mode "SEND"



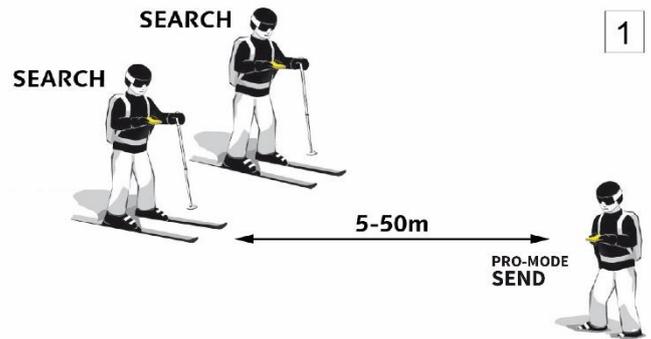
Display in group check send mode
CT = Check Transmit

The holistic “big” avalanche beacon check with activated Pro-mode

(1) Receive check

Group leader => Pro-mode “SEND”: Device transmitting?

All others => Search mode: Devices receiving?

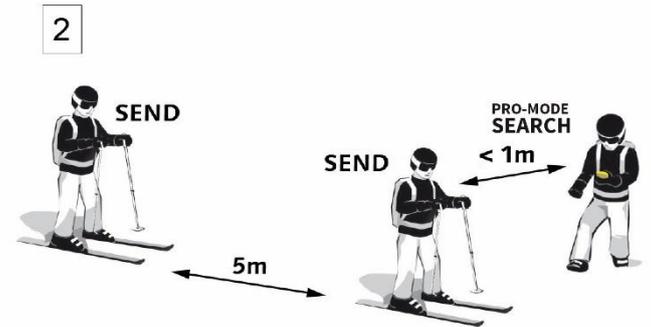


(2) Transmit check

Group leader => Pro-mode “SEARCH”: Device receiving?

All others => Send mode: Devices transmitting?

Tip! The receive check can be combined with a range test by selecting a large distance (50 m).



4.6 SEND MODE

After the self-check or the group check, place the MICRO into the carrying system. The MICRO transmits and an LED indicator light (1D) flashes.



Send mode display

NOTICE

To see the display in send mode, cover the sensor (1F) after unlocking the SEARCH-LOCK beforehand as necessary.

If the sensor remains uncovered after the start sequence, the MICRO switches immediately to Search mode.

4.6.1 Send-Vibra

The Send-Vibra is an additional, tactile send confirmation. When the MICRO sends, it vibrates 5 times.

The Send-Vibra is activated by default. The feature can be deactivated in the PIEPS APP ([see also chapter 5](#)).



4.6.2 The Intelligent Transmitter – maximum support in send mode

The Intelligent Transmitter is working in the background and helps to find a buried person faster and more efficiently in case of an emergency.

PIEPS Auto-Antenna-Switch

If the transmitting antenna is negatively influenced through external interference (e.g. mobile phone), the other antenna will take over the transmitting function. The MICRO always transmits with the strongest antenna for the maximum range to the receiving beacon!

PIEPS iPROBE-Support

Beacons with iPROBE-support* are automatically deactivated when probing with the electronic probe PIEPS iPROBE. This prevents signal overlaps and the next-strongest signal is automatically shown on the display of the receiving beacon. The PIEPS iPROBE-supports maximal in the case of multiple burials!

** Beacons with iPROBE-Support: PIEPS MICRO, PIEPS DSP PRO, PIEPS DSP PRO ICE, PIEPS DSP SPORT, PIEPS DSP STANDARD ≥ v5.0, PIEPS DSP TOUR, PIEPS FREERIDE*

External interference and distance recommendations

All beacons are very sensitive to electrical and magnetic sources of interference. Due to this, all manufacturers recommend keeping a minimum distance from electronic, magnetic and metallic sources of interference (mobile phone, radio, keys, magnetic closures, etc.):

Minimum distance in Send mode: 20 cm | Minimum distance in Search mode: 50 cm

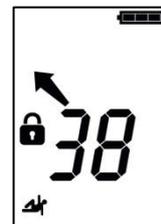
4.7 SWITCHING SEND ⇔ SEARCH

The MICRO automatically switches to Search mode when you remove it from the carrying system.

- The MICRO automatically switches to Search mode when you remove it from the carrying system. Search mode is blocked in this case (SEARCH-LOCK).
- The MICRO automatically switches to Search mode if you do not place it in the carrying system after the start sequence (switch-on). Search mode is not blocked in this case.

4.7.1 SEARCH-LOCK

To prevent accidental switching back to Send mode during the search, Search mode is blocked as soon as you take the MICRO out of its carrying system. The MICRO remains in Search mode even if you return it to the carrying system during probing or digging.



SEARCH-LOCK display

NOTICE

The SEARCH-LOCK is only activated when the device was previously in Send mode.

4.8 SWITCHING SEARCH ⇌ SEND

If necessary, you can release the SEARCH-LOCK, by pressing the MARK button (1A) for 3 seconds and placing the MICRO in the carrying system or covering the sensor.

The MICRO emits an acoustic and tactile (Vibra) warning for 4 seconds that the device will switch over from Search to send mode. A tactile send confirmation is performed after the switchover (*see also chapter 4.6.1*).

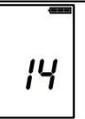
IMPORTANT! When you start the tour again, take care that the SEARCH-LOCK is not blocked, when you put the MICRO in the carrying system. Only if the SEARCH-LOCK is not blocked, the MICRO switches to send-mode automatically.

4.8.1 Secondary avalanche | Auto-Revert Search-to-Send (AR)

The MICRO has the Auto-Revert Search-to-Send (AR) function by default. The device switches from Search to send mode automatically if the device has not been in motion for 1 minute (buried). You can change the timeout for the switchover in the PIEPS APP (*see also chapter 5*).

The AR function has the following features:

- Motion-controlled initialization
- Short switching time
- Long warning phase with signal tone and countdown before switching over
- Permanent warning tone, also after switching over

Avalanche beacon mode	SEARCH MODE	WARNING PHASE					SEND MODE				
Display indicator	Search display										
Tone output	Search tone										
Manual abort		Shake device or press MARK button									
		START WARNING					SWITCH TO SEND				
Setting 1 (60 s)		0:30 min					1:00 min				
Setting 2 (90 s)		1:00 min					1:30 min				
Setting 3 (120 s)		1:30 min					2:00 min				

During the warning phase, the AR initialization can be interrupted as follows:

- By briefly shaking the device or
- By pressing the MARK button

After the switchover, your MICRO transmits permanently, including a warning tone, until it is switched off.

4.9 SEARCH MODE | SEARCH STRATEGY

4.9.1 In case of emergency

A buried person has the greatest chance of being rescued quickly if as many of the companions in the group were not buried and these people are able to work efficiently as a team. In the event of an accident, the following applies: REMAIN CALM, OBSERVE, ALERT, ACT WITH COORDINATION!

(1) Stay calm & get an overview of the situation

- Are there any other risks?
- How many victims?
- Determine the primary search area!

(2) Make a brief emergency call

- Max. 2 minutes
- EU 112, AT 140, CH 1414, IT 118, FR 15

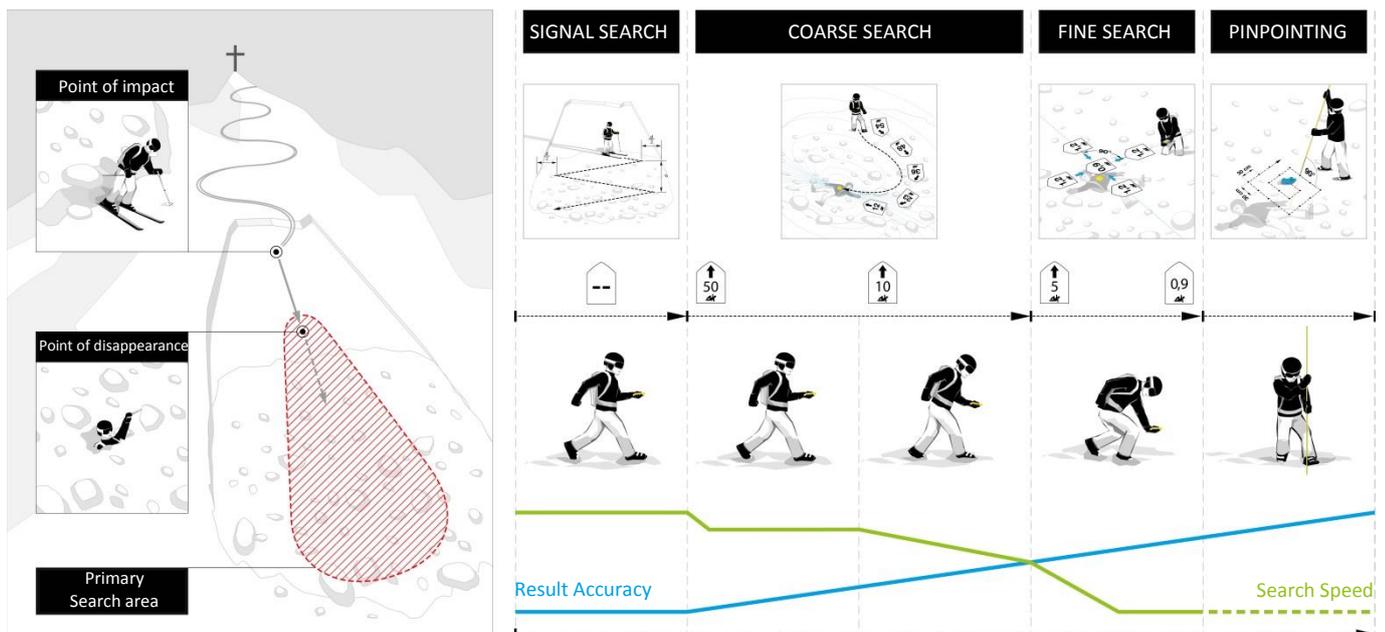
(3) Burial search

- Signal search (eyes + ears, beacon)
- Coarse search (starting with first signal)
- Fine search (closer than 5 m on the surface)
- Pinpointing (systematic probing)

(4) Systematic digging

(5) First Aid

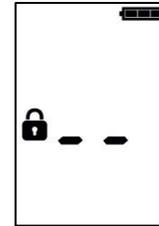
(6) Rescue



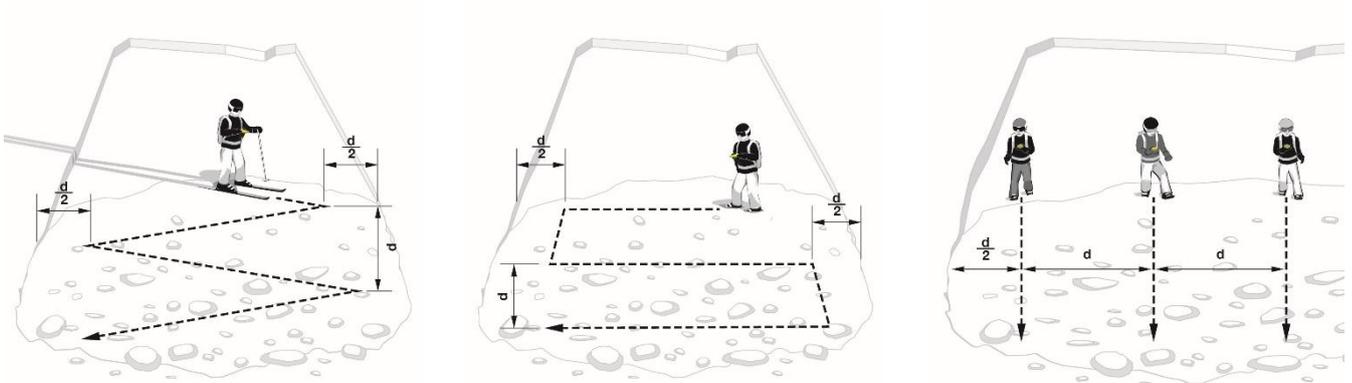
4.9.2 Signal search

Start searching in the primary search area for initial detection (signal search). The MICRO has a circular receiving range and enables the correct indication of direction and distance indication from the first signal – a specific method such as turning/pivoting is not necessary. All signals of the burials that are within the maximum receiving range are received simultaneously.

Walk along the defined search area in the stated search strip width quickly. The recommended search strip width for the MICRO is 50 m. The display shows “no signal” until a signal is received.



No signal



One rescuer with skis
for signal search
 $d = \text{search strip width}$

One rescuer by foot
for signal search

More rescuers
for signal search

IMPORTANT! All participants, including the observers, must switch their devices to receiving mode (or to standby mode). Always make sure there are no electronic devices (e.g. mobiles, radios) or solid metal items in the direct vicinity of the search.

4.9.3 Coarse search

As soon as the MICRO receives signals, the distance and direction to the strongest signal are shown on the display. The number of victims located within the receiving range is indicated by the number of matchstick men. Using the arrow and distance reading, follow the strongest of the received signals along the field lines.

Vibra at initial detection

The MICRO provides additional support during initial detection by vibrating. This lets rescuers focus on the visual surface search during the signal search.



4.9.5 Pinpointing

Check the search result by systematic probing. Begin at the point of the lowest distance indicated. If you encounter something, insert the probe and start with systematic digging.

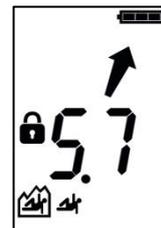
4.9.6 Multiple burials | MARK function

If there are multiple burials, this will be indicated clearly on the display by the number of matchstick men. To mark (“hide”) a localized sender, press the MARK (1A) button briefly. Once it is hidden, this will be confirmed by a frame around the matchstick men (2N). The MICRO automatically shows the next strongest signal on the display.

Now continue searching as described earlier and repeat the process until all transmitters are located. If there are no further signals within the receiving range the display indicates “no signal”.



Indicator before marking



Indicator after marking

NOTICE

Marking is possible within a range of 5 m and is indicated by the MARK (2J) symbol.

Continuous carrier indication

Older analog transceivers are transmitting a weak continuous signal additional to the digital pulse signal that can have an impact on the digital signal separation. It is recommended to quickly step a few meters away after marking such a transmitter.



Signal without continuous carrier



Signal with continuous carrier

The MICRO identifies such a continuous signal and supports it with an indicator: the “number of burials” start flashing.



5. DEVICE MANAGEMENT WITH THE PIEPS APP

The PIEPS APP provides uncomplicated device management from your mobile phone using Bluetooth®. Download the app (Android Play Store, iOS App Store), connect to PIEPS MICRO and use all the functions.

To activate Bluetooth®, hold down the MARK button (1A) when switching on the device. When the Bluetooth® symbol appears on the display, you can release the MARK button.



Bluetooth® activated



Connection to mobile device established

You can make settings to the following features using the PIEPS APP:

Send-Vibra

- Transmitting confirmation via Vibra ON/OFF

Group check

- Group-Check ON/OFF
- Change group check mode (fast/extended)
- Pro-Mode ON/OFF

Auto-Revert Search-to-Send

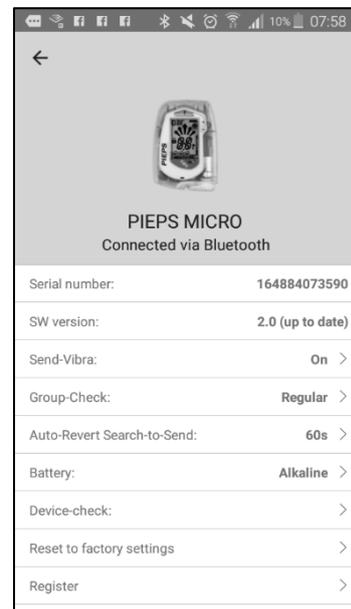
- Change timeout (60 s/90 s/120 s)

Battery

- Change battery type (Alkaline / Lithium)

Further useful features of the PIEPS APP:

- Training scenarios
- Basic knowledge
- Software Updates
- Manuals



6. TROUBLESHOOTING, MAINTENANCE, STORAGE, DISPOSAL

6.1 TROUBLESHOOTING

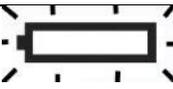
<i>Error</i>	<i>Description</i>	<i>Measure</i>
	No indication on the display	Check the device for physical damage. Check the battery capacity, type and polarity (+,-); if necessary, fit a new battery. If there is still no indication, take the device to your retailer.
E1	<i>System configuration</i> The error remains on the display. The device is not serviceable.	Take the avalanche beacon to your retailer.
E2 E3 E4	<i>Sender or receiver or amplifier</i> The error disappears after the self-check. The device has limited functionality: the send or receive power is limited.	Repeat the self-check in an area free from interference (outdoors). Check for external sources of interference (e.g. sending avalanche beacons, mobile phone) in your immediate vicinity. If the error is permanently displayed, take the device to your retailer.
E5	<i>Processor</i> The error remains on the display. The device is not serviceable.	Take the device to your retailer.
E6	<i>Distance and/or direction indicator</i> The error disappears after the self-check. The device has limited functionality: the distance or direction indication is inaccurate.	Take the device to your retailer.
E7	<i>Proximity sensor</i> The error remains in the additional display (2B). In this case, automatic Send↔Search switching is not possible; the switching must be performed manually.	Repeat the self-check and ensure that the sensor area is not covered during the self-check. Manual Send↔Search switching is performed by pressing the MARK button for 3 seconds. Take the device to your retailer.
	Automatic Send↔Search switching does not take place.	Ensure that the sensor is not covered. Check the display glass and especially the sensor area for soiling or deposits (large snowflakes), clean the display glass as necessary.
E8	<i>Accelerometer</i> The error disappears after the self-check. The device has limited functionality: Auto-Revert Search-to-Send is not possible. Group check professional mode is not possible.	Take the device to your retailer.
E9	<i>Bluetooth®</i> It is not possible to make a Bluetooth® connection to a mobile device. The avalanche beacon function of the device is working. Is not checked during the self-check, occurs only during Bluetooth® activation.	Switch the device off and on again in Bluetooth® mode (keep MARK button pressed briefly when switching on the device). If the error is permanently displayed, take the device to your retailer.

6.2 REPLACING THE BATTERY

Change the battery as soon as the battery level display (2C) indicates that it is empty.

To do so, open the battery compartment (1E) above the main switch (1H); be sure to insert the new battery the right way around (1G).

Dispose of the battery in accordance with the law in your country.

	3/3 filled	300 – 200 h SEND
	2/3 filled	200 – 100 h SEND
	1/3 filled	100 - 20 h SEND
	empty	20 h SEND (+10° C, 50° F) + 1 h SEARCH (-10° C, 14° F)
	empty, flashing	Final reserve, device can switch off at any moment

⚠ DANGER

Risk of explosion from incorrectly used batteries

Use batteries of type “Alkaline, AA, LR6, 1,5V5V or Lithium, AA, FR6 (FR14505), 1.5V“!

⚠ CAUTION

Risk that the displayed battery level is incorrect

Use batteries of type “Alkaline, AA, LR6, 1,5V5V or Lithium, AA, FR6 (FR14505), 1.5V“!

Important: The use of lithium batteries has to be configured in the PIEPS-APP to guarantee that the correct battery level is displayed. ([see chapter 5](#))

6.3 CLEANING

Use a damp cloth without cleaning agent to clean the device.

NOTICE

Flowing water, steam or cleaning agent must not be used to clean the device. To do so could impede operation of the device.



6.4 STORAGE

Store the device in a dry room at room temperature.

NOTICE

If the device is not used for extended periods of time (summer months), it is recommended to remove the battery from the battery compartment. The warranty does not cover damage caused by leaking batteries.

⚠ CAUTION

Risk of extreme temperatures

Do not expose the device to extreme temperatures. Store the device so that it is protected from direct sunlight. Extreme temperatures can impede operation or damage the battery.



6.5 DISPOSAL

NOTICE



Please note that the device is an electronic device. It cannot therefore be disposed of by public waste management companies. Dispose of the device in accordance with the law in your country.

7. APPROVAL & CONFORMITY

The approval text and the full text of the EU conformity declaration is available at the following website

www.pieps.com/conformity