Wireless alarm device for the monitoring of bedwetting (enuresis)

Instructions for use
Alarm device for the treatment of bedwetting

Description:

The new URIPHON® wireless device is the successor model to the Uriphon® wireless, which was produced as a ‘paired’ (transmitter and receiver). This meant that in the past transmitter and receiver could only communicate if both components were manufactured and delivered with the same radio channel. With the URIPHON® wireless 2 this has now completely changed. The transmitter and receiver’s factory settings now allow them to work independently. Each transmitter has a unique identification code and is paired, during its initial start-up, with the receiving unit.

The main advantage to this lies in the fact that in the event of a potential malfunction of one of the two components, these can be replaced individually now rather than a complete pair being required. In addition, any transmitter can be paired with any URIPHON® wireless 2 receiver.

Absorbent pads which are fastened to underwear in use are available for the new version too. They can be used freely in any underwear and also offer continuous use without a drying phase. They can be re-inserted immediately after an alarm. It is not necessary to use special underpants.

Thanks to the new mobile, even smaller and more convenient transmitter, the product is now significantly more flexible, offering increased sleeping comfort and freedom of movement. Additionally the transmitter is equipped with a switchable vibration alarm.

Note: URIPHON® wireless 2 can also be used with a bed liner. (see section “Additional Options”)

The unique identification code of the transmitter allows the use of multiple devices within a common environment without interference. The radio range within buildings is between 15 and 30 metres. This makes URIPHON® wireless 2 ideal for hospital use too.
Delivered with:

Receiver, Transmitter, 3 absorbent pads with adhesive points, 2 AA type batteries (for the Receiver), 1 CR2450 button battery (for the Transmitter), power supply unit, storage bag, detailed manual, brochure "Bedwetting - the latest information for a common problem."

Fig. 1: Outer packaging, Device serial numbers
Fig. 2: Delivery of **URIPHON**² wireless:

- **Instructions for use**
- 3 contact pads with spare adhesive points
- **Power Supply**
- **Transmitter**
- **Receiver**
- **Button battery CR2450**
- 2 type AA batteries
Components - Functions and function indicators - Controls:

Transmitter

Fig. 3: Transmitter, front

- Clips to attach the Transmitter to the underpants
- Press studs to fix the contact-pads
- "Pairing Button"
- Clips to attach the Transmitter to the underpants
- Serial number of the Transmitter
Important note:

All the important functions of the appear exclusively on the receiver.

It is recommended that the batteries are installed when operating with the power supply. This means that the device will continue to work continuously e.g. during a power outage. The batteries will only be used when operating without a power supply feed.

Depending on the number of alarms triggered and on the respective alarm duration, the capacity of the batteries extends for several months.
Fig. 6: Receiver, back with closed battery compartment

Fig. 7: Receiver, back with open battery compartment
Contact pads

Fig. 8: Contact pads

Press studs for the connection of the contact pads with the Transmitter

adhesive points for fixing the contact pads to the underpants

Power supply plug with cable

Power supply plug for connection to 100-240V AC

Plug to connect to the receiver (power supply)

Fig. 9: Power supply plug with cable
Starting the device:

**Important note:** Neither the Transmitter and Receiver have an ‘On’ or ‘Off’ switch or button. Once the batteries are inserted in both the Transmitter and the Receiver and the Transmitter has been paired to the Receiver, the unit is ready for use. Depending on the number of alarms triggered and the respective alarm duration, after starting the device, the batteries are functional for several weeks before they have to be replaced.

Preparation of the Receiver:

The **Receiver** can be powered using the power supply unit (fig. 9) type SYS1421-0605-W2E, and also with two commercially available 1.5V AA batteries.

1. **Battery operation**
   - Open the battery compartment on the Receiver. To do this, slide the lid of the battery compartment outwards, in the direction of the arrow. (Fig. 10a)
   - Insert two 1.5 V AA batteries. Important: When inserting, check the correct polarity of the batteries! (Fig. 10b)
   - Close the battery compartment
   - The Receiver is now ready for use

Fig. 10a: Receiver, back with closed battery compartment
2 **Mains supply operation**

- Connect the power supply unit (fig. 9) to the Receiver. Then plug in the power supply to a wall socket.
- Note: Even when using the power supply, it is always recommended to keep batteries inserted in the Receiver. In this way, you can always ensure that the device will always continue to work even in the event of power failure. Battery power is used only if the unit is disconnected from the Receiver or from the power supply.
- During operation with the power supply, the "Receiver Mode" LED is green and continuously lit (fig. 5)

**Important information about the Transmitter**

The transmitter is equipped with a vibration alarm. This vibration alarm can be switched on or off at your choice. If vibration alarm is switched on and an alarm is being triggered by the wet sensor, additionally to the acoustic signal of the receiver the alarm is also being signalized by vibration directly at the body of the patient.

**Important note:** The vibration alarm consumes significantly more battery power than the radio signal of the transmitter. As long as the connected wet sensor will not be separated from the transmitter, the vibration would continue until sensor and transmitter will be disconnected from each other. Therefore, the vibrations alarm duration is limited to a maximum of ca. 1 minute. However, by exceeding this time limit a radio signal is furthermore being sent to the receiver.

At switched on vibration alarm, the capacity of the battery withstands approximately 80 alarm cycles. At switched off vibration alarm the lifetime of the battery maybe up to several weeks.
Preparing the Transmitter:

- On the left side of the transmitter enclosure there's an opening with a snap in latch behind it and which allows to open the enclosure (Fig. 11a)
- With a thin and spiky object (e.g. a paper clip) press against this latch and take off the enclosure cover (Fig. 11a and 11b)
- With sliding switch next to the battery select vibration alarm "On" or "Off" (Fig.. 11c)
- Push the CR2450 button battery into the battery holder. **Important:** When inserting make sure the battery polarity is correct! (Fig. 11d)
- Afterwards fit back the cover and close the cabinet again.
- The Transmitter is now ready for use.

Fig. 11a: Opening of the Transmitter enclosure

Fig. 11b: Taking off the enclosure cover
Abb. 11c: Acivate / Deactivate Vibration Alarm

Fig. 11d: Inserting the CR2450 button battery

**Pairing of the Transmitter to the Receiver (Pairing mode):**

- Press the operating button on the Receiver (fig. 5) for approx. 3 seconds and then release.
- You will hear a short double beep and both LED displays light up for the Transmitter (orange - drop icon and red - battery symbol). (Fig. 5)
- Now briefly press the "Pairing button" on the Transmitter (Fig. 4)
- You will hear another short double beep, which acknowledges and confirms the pairing on the Transmitter. Both LED displays go out.
- Now Transmitter and Receiver can communicate.
Important note: If during further regular use of the Receiver you accidentally step back into the Pairing mode, an acknowledgement to the Transmitter is no longer necessary. After about 30 seconds, The Receiver switches back to Normal mode. When Pairing mode is switched on, the function button can also be pressed again for 3 seconds and then released. The device switches then back to Normal mode.

Important note: The code acquired from the Transmitter remains stored in the Receiver even when the batteries are removed for a long period. Therefore, when replacing the batteries, it should not be necessary to pair the units again. This is also the case, if after a pairing process the vibration alarm will be switched on or off.

URIPHON®2 is now ready for use.

Function test:

In order to perform a function test of the device, proceed as follows:

- Press the "pairing button" on the Transmitter. For as long as you hold the button, the two LED displays on the Receiver (orange - drop icon and red - battery icon) are lit. Transmitter and receiver are connected. Please keep in mind that it may take about 1-2 seconds when you press the pairing button until the LEDs light up. This is due to the fact that the Transmitter, in order to save power, communicates with the Receiver in a pulsed mode.
- Bridge over both Transmitter buttons (fig. 4) with a coin (or any other electrically conductive object) and firmly hold the coin on the press studs so that a permanent electrical conductivity is provided.
- An increasingly loud alarm signal will be heard.
- The LED display for the Transmitter (fig. 5) "orange - drop symbol" (alarm off) lights up in the Receiver.
- Remove the coin from the press studs.
- The alarm signal continues until the alarm is switched off.
- On the receiver, press the button "alarm stop". (Fig. 5)
- The alarm signal stops. The orange Display for the Transmitter LED goes out.
More information on the operation of the unit

For the duration of time using the equipment we recommended having several pairs of snug-fitting boxers or briefs available in the appropriate size.

The absorbent contact pads supplied with the device (3 units) are placed in the pants so that the centre of the contact pad is placed in front of the urethral opening. The double-sided adhesive points supplied are used for fastening to the pants.

- Fasten a dry contact pad to the pants.
- Connect the press studs of the contact pad with the press stud of the Transmitter.

Fig. 12a: Connecting Transmitter and contact pads

Fig. 12b: Connecting Transmitter and contact pads
• Fasten the transmitter with the fixing clip to the outside of the underpants.

Fig. 13: Attaching the Transmitter to the underpants

**Triggering the alarm:**

A few drops of urine are enough to trigger the alarm signal. This means the wearer will be awake before large amounts of urine escape.

This early alarm is designed to assist in reinforcing the reflex signalling the urgent need to urinate and is **extremely** important in the success of the treatment. In this way, the patient learns to immediately stop the urine, to stand up and go to the toilet.

• An increasingly loud alarm signal sounds.
• The LED display for the Transmitter (fig. 5) "orange - drop symbol" (alarm) lights up
  As long as an electrical connection takes place through the urine on the contact pad, this loud alarm sounds continuously and with short breaks between single signals.
• As long as an electrical connection is made through the urine on the contact pad, the alarm signal cannot be deactivated by pressing the function button "alarm stop" (fig. 5).
Stopping the alarm:

The procedure for stopping the alarm, which may appear a little laborious but is actually designed to prevent the wearer is accidentally turning off the alarm while half-asleep.

Procedure is as follows:

- Disconnect the snap fastener between Transmitter and contact pad. The alarm signal continues until the alarm is switched off.
- To switch off the alarm, press the button "Alarm Stop" (fig. 5) on the Receiver. The alarm signal stops. The orange LED “Transmitter display” (fig. (5)) goes out.
- **Important note:** The "alarm stop" button on the receiver responds only when the contact between the pad and the Transmitter is disconnected. That is when the electrical connection through the urine on the contact pad is disconnected.

After having been to the toilet and having emptied the bladder, dry pants and a new contact pad must be worn. Once the connection to the Transmitter is restored, the system is ready to go again. The patient can go back to sleep.

Especially at the beginning of therapy, depending on the age of the wearer, the procedure may require more or less assistance from parents or helpers.

**Summary of the Receiver displays (fig. 5)**

*a)* **LED display for the Transmitter's operating mode**
- Only the orange coloured LED (drop symbol) lights up: The alarm is triggered, the sensor is wet
- Only red LED (battery icon) flashing: The battery in the Transmitter is weak and must be replaced.
- Both LEDs are lit: The device is in pairing mode

*b)* **LED display for the operating mode of the Receiver**
- Both LEDs off, no display: Device is running on battery and batteries have sufficient charge.
- Red LED flashes: The Receiver batteries have to be replaced
- Green LED: Device running on power supply

**Important note:** The functions described only appear if there are batteries in the Receiver and/or the Receiver is operating through the power supply.
Maintenance and cleaning:

The contact pads should be checked on a regular basis. To do this, connect them when dry to the device and wet them in the middle of the bottom part with a few drops of water. If the drops of water are immediately absorbed and the alarm is immediately activated, the pads are in perfect condition.

If the drops of water remain in the shape of beads on the surface of the pad, absorption is impaired. In this case, the pads should be replaced with new ones.

The cleaning of contact pads can be done using commercially available detergents, preferably hand wash but also machine wash at 40° C. Don't use any fabric softener! Never squeeze the pads, but after thorough rinsing lay them flat between two dry cloths and press out any moisture with the cloth. Then hang to dry. For reuse, the pads must be absolutely dry, because any moisture can immediately trigger the alarm.

To fully extend the life of the contact pads it is recommended that they are washed after use for a few hours in a container filled with water.

The Transmitter and Receiver can be cleaned with a cloth moistened with clean water or germicide. Never immerse the devices in water or any other liquid or hold them under a jet of water.

Storage:

URIPHON® wireless should be stored in a cool and dry place. If the device is not used for a long time, it is advisable to remove the batteries from both the Transmitter and Receiver. This will prevent any potential damage to the unit from leaking batteries.

Protection from moisture
Further options:

Operating **URIPHON® wireless 2** with bed liner (*LiSSI® sensor matte*)

The needs of patients and parents can be very different, which is why a device must be flexible and able to adapt to the situation.

**URIPHON® wireless 2** comes, as standard equipment, with contact pads for underwear.

Should the need arise, for therapeutic reasons, to use the device as a "Ring mat" you just need to purchase the appropriate bed liner.

Transmitter and Receiver are suitable for both systems.

A **URIPHON® wireless 2** compatible bed liner is the „LiSSI® sensor matte“ (also available as a SET).

**Important note:** Since the transmitter of **URIPHON® wireless 2** is not in direct contact with the patient's body when using a ring mat, it is recommended to switch off the vibrating alarm on the transmitter. This significantly increases the lifetime of the transmitter battery.

Please refer to the instruction manual for the “LiSSI® sensor matte” for the further procedure.

Fig. 13: Operation of **URIPHON® wireless 2** with “LiSSI® sensor matte”

The LiSSI® sensor matte can be purchased via our Web shop ([www.uriphon.de](http://www.uriphon.de)) with item number LP0020, as a SET together with **URIPHON® wireless 2** with item number WLP0037, from the specialized resellers or through your pharmacy.
Operating \textit{URIPHON wireless} 2 with \textit{several Receivers}

Especially when operating the device in hospitals or nursing homes, the need arises to signal an acoustic alarm at different locations - as in the room of the patient himself and in the room in which the nursing staff is located.

A \textit{URIPHON wireless} 2 transmitter basically can be operated with an unlimited number of receivers. A further receiver must only be registered (paired) to the transmitter (see section “Pairing of the Transmitter to the Receiver”, page 13). All receivers paired with the transmitter give an acoustic signal in the event of an alarm simultaneously. The alarm sounds however, have to be switched off individually for each receiver (see section "Stopping the Alarm", page 17)

For answers to frequently asked questions and advice on the treatment of enuresis, please refer to the enclosed brochure \textit{"Bedwetting – latest information for a common problem."}
Safety instructions:

- Carefully read through the operating instructions and the safety notes before using the product. Always keep the manual within easy reach. If you sell the unit or share it, make sure to hand over these instructions, as well.

- Never let children use electrical devices unattended. Batteries / rechargeable batteries can be fatal if swallowed. Therefore, keep both device and batteries out of the reach of small children. If a battery is swallowed, immediately seek medical help.

- Keep packaging film away from children: Risk of suffocation!

- Take the devices out of the box and check them carefully for damage before using them. **Never operate a damaged device!**

- Transmitter, Receiver and power supply unit of **URIPHON wireless** should not be immersed in water.

- The cleaning of the devices should only be done using a damp cloth.

- Always grasp the power supply unit by the handle. Never pull on the cable when disconnecting from the power supply.

- Connect the power supply unit only to an easily accessible socket (230 V ~ 50 Hz) located in the vicinity of where the Receiver is being installed. In the event that you need to quickly disconnect the device from the power supply, the socket must be freely accessible. To avoid tripping hazards, do not use extension cables.

- In case of damage to the power supply unit or its connection cable, immediately take the plug out of the socket.

- The contact pads must not be cut, otherwise the electrically conductive material may be damaged.

- Ensure that no direct heat sources (e.g. heating) may affect the devices and that no direct sunlight hits the devices.

- Make sure that no open fire sources (e.g. lit candles) are close to the devices.

- Never try to open the devices or to repair them yourself.
- The devices are not suitable for operation in the open and should be used only in dry spaces. Never expose the devices to rain or moisture.

- Should the devices have been subjected to strong differences of ambient temperature, do not put them into operation immediately as the device could be damaged due to condensation. Do not connect the devices to the power supply before they have had time to adjust to the ambient temperature.

- Operate the devices only with the batteries provided (two 1.5 V AA batteries, one 3V CR2450 button battery). Check the correct orientation of the batteries.

- Never open the battery compartment by force.

- Do not open the outer packaging by force with a pair of scissors or similar. You may damage the devices within.

The device is tested in accordance with the following standards:

Certificate No. TB170615954

Certificate No. TB170716196

Certificate No. TB170615945
2011/65/EU; 2006/66/EC; IEC 62321:2013

Nominal voltage: 3V DC voltage, battery / power supply

The manufacturer guarantees the safety and function of the unit only if:
Upgrades, resetting, modifications or repairs are carried out by persons authorized by them, and the device is used in accordance with the operating instructions.

The device is only suited for use in the case of enuresis (bedwetting) and incontinence. For any other use, the manufacturer does not provide any guarantee for safety and or functionality without it having been checked with the manufacturer first!

Environmental conditions: Operating temperature range, from 0 °C to + 45 °C

Disposal:
Do not dispose of electronic equipment in the household waste! Before disposing of the devices, remove the batteries!

Return used batteries to a battery collection point!
EC-Declaration of Conformity
(Directives 93/42/EEC and 2004/108/EC)

Manufacturer: emcotrade GmbH
Address: Esselbachstrasse 27
          D-75438 Knittlingen
          Germany

Product specification: URIPHON® wireless 2

Class: IIb

We declare that the above-listed medicine product conforms to the relevant

Adopted standards:
EN 55011:2009+A1: 2010
EN 60601-1-2:2007
EN 60601-1-11:2011
EN 606011:2006/A11:2011
2011/65/EU
2006/66/EC
IEC 62321:2013
ETSI EN 300220

Knittlingen, July 3rd, 2017

Peter G. Meiser
Managing Director

The original certificates can be inspected at the offices of emcotrade GmbH.

Keep this manual for the entire life of the product!
**Warranty:**

The warranty for Transmitter, Receiver and power supply unit is 24 months from the date of purchase. The warranty becomes void if unauthorized modifications are made to the devices or repairs are carried out by unauthorised persons. Repairs must be carried out exclusively by the manufacturer or by personnel authorized by them. The warranty is also rendered void if the serial numbers of the devices are manipulated or removed.

**Technical data:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power supply:</strong></td>
<td>Receiver 5V/500mA + 3V 2xAA&lt;br&gt;Transmitter 3V battery CR2450</td>
</tr>
<tr>
<td><strong>Standby current:</strong></td>
<td>Transmitter - 15uA&lt;br&gt;Receiver - 1mA</td>
</tr>
<tr>
<td><strong>Alarm’s power consumption:</strong></td>
<td>Transmitter without vibration alarm – 30mA&lt;br&gt;with vibration alarm – 70mA&lt;br&gt;Receiver - 150mA</td>
</tr>
<tr>
<td><strong>Average life span of batteries:</strong></td>
<td>Transmitter - approx. 6 weeks&lt;br&gt;Receiver - approx. 6 weeks</td>
</tr>
<tr>
<td><strong>Acoustic performance of signal transmitter:</strong></td>
<td>92db / 10cm</td>
</tr>
<tr>
<td><strong>Operating conditions:</strong></td>
<td>Temperature: 0 °C ~ + 45 °C&lt;br&gt;Air humidity: 20% ~ 80%</td>
</tr>
<tr>
<td><strong>Transport and storage:</strong></td>
<td>Temperature: -20 °C ~ + 45 °C&lt;br&gt;Air humidity: 20% ~ 80%</td>
</tr>
</tbody>
</table>

Additional accessories can be purchased in our Web shop [www.uriphon.de](http://www.uriphon.de), at medical supply stores and dealers:

- 3 set absorbent replacement pads with adhesive points (Uriphon order No. W0012)
- ROE70® ring mat (set of 2) (Uriphon order No. R0016)
- URIPHON wireless2 Receiver (Uriphon order No.. WE0037)
- URIPHON wireless2 Transmitter with Vibration Alarm (Uriphon order No.. WS0040)

WEEE-reg. Nr. DE 28872323
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September 2017