



VAHLKAMP

MANUAL
Epi-Watcher



Foreword

You have just received the Epi-Watcher by Vahlkamp. Study this manual closely beforehand and familiarise yourself with the device. Setting the device for the first time is very important. This manual describes how the Epi-Watcher is to be used.

It is essential that the Epi-Watcher is set correctly in order to achieve optimal detection. It is important that you realise that the reliability of the Epi-watcher in detecting epileptic attacks is not 100%. You should furthermore always take into account that the device may fail to register an attack due to unforeseen circumstances. There are circumstances that prevent the device from functioning correctly. The user should test the Epi-Watcher regularly so as to reduce the chance of this going unnoticed. The doctor/neurologist establishes the medical grounds with respect to the use of the equipment and is ultimately responsible. The alarm detects small movements and shocks due to the highly sensitive piezo sensor, abnormal movements. This allows the care provider to be warned. The sensor serves in the epicenter of the movements/shocks to be placed, hence the name Epi Watcher.

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1. Installation

1.1 Parts

You have received the following parts that you will need to install a properly functioning Epi-Watcher (see figure 1):

1. Epi-Watcher unit, which analyses movements if it is connected properly and gives an alarm when abnormal movements are detected.
2. Sensor; it relays the movements to the Epi-Watcher.
3. Tele-call receiver for the purpose of receiving the alarm in another room with a range up to 20-25 metres.



Figure 1 Parts of the Epi-Watcher.

1.2 Connecting the device

The Epi-Watcher is easy to connect.

1. Connect the sensor to the Epi-Watcher.
2. Place the sensor under the mattress* approx. at the position of the lower back.
3. Connect the adapter to the Epi-Watcher.
4. Plug the adapter into the power socket.
5. This will start the Epi-Watcher, as shown on the screen.
6. It is also possible to connect the Epi-Watcher to a nurse call system for alarm reports. See chapter 9 for more information.

ATTENTION

The sensor is automatically calibrated when the Epi-Watcher is switched on. Do make sure that the sensor is stable when you switch on the Epi-Watcher, so that it can be properly calibrated.

1.3 Using the device for the first time

The Epi-Watcher has been designed to make things easier for you. The same goes for the initial settings. The Epi-Watcher sets itself based on the answers to a number of questions. You can always readjust the settings should you not be satisfied with the result. Chapter 2 will help you on your way to adjusting the initial settings.

By reading this manual, you will gain a feeling for and understanding of the Epi-Watcher. It is, after all, important that you know which adjustments you can make. The Epi-Watcher is equipped with all kinds of intelligent functions. You decide for yourself which functions are important. The manual describes all of the functions, as well as their purpose, allowing you to make the correct decision for yourself regarding which setting best suits your situation.

2. Setting the device for the first time

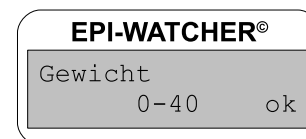
To make things easier for you, the Epi-Watcher offers the possibility of establishing the initial settings automatically. You can select this function in the menu. Based on the answers to various questions, the Epi-Watcher independently calculates the settings for the detection of abnormal movements. Because every individual and every situation is different, it will be necessary to improve these settings in the future. The initial settings will in any event ensure an adequate estimate of the necessary settings. The object is to have the Epi-Watcher learn from the movement behaviour of the person concerned so as to come to the optimal settings for the best result. One may therefore expect more false alarms at first.

Use the arrow to the right to access the Menu. Once in the menu, you can use the arrow to the right, under WIJZ, to adjust the setting with the arrow up or down. You can save the data that you selected using the arrow to the left, under OPSL. Use the down arrow to go to the next step. Press the down arrow if you do not wish to change anything. Note: the screen returns to the main menu after 10 seconds. It is therefore important to be prepared for adjusting the settings before you proceed to implement these in the unit.

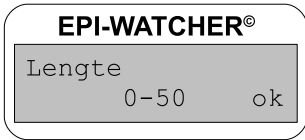


This brings you to the Initial Settings. Select OK if you wish to change or set these. Then press YES. Use the down arrow if you do want to change these. If you opt to change one

setting, then you will automatically be given the opportunity to adjust all the other settings. You will have to go through the whole list. You will then come back to Initial Settings where you can go to Detection Settings using the down arrow. Repeat this with the Detection Settings. Continue on through the entire menu until you return to Sound. Press the arrow to the left to leave the menu.



Enter your body weight here. Choose between: 0-40, 40-80 and 80-120 kg.



Enter your body height here.
Choose between: 0-50, 50-100, 100-150 and 150-200 metres.



Indicate the type of movement that occurs on average. Choose between: minor, moderate and major.



Indicate the type of mattress here. If uncertain, choose moderate.
Choose between: light (0-10 kg), moderate (10-20 kg) and heavy (20 kg or more).



Indicate the type of bed here.
Choose between: slats, spring or otherwise.



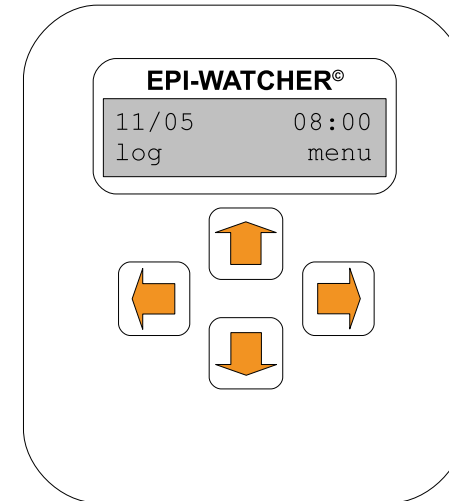
Indicate your average sleeping habits here.
Choose between: calm, moderate and wild.

The Epi-Watcher will calculate your optimal settings after you have answered all six questions. As this process takes some time, you will see 'One moment please...' on the screen of the Epi-Watcher. Once the new settings have been implemented, the Epi-Watcher will return to the menu where you selected this function.

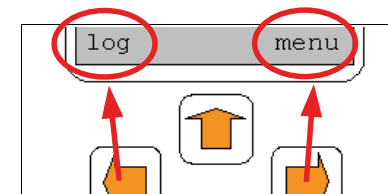
ATTENTION:
the Epi-Watcher is not suitable for a waterbed or spring.

3. General use

The Epi-Watcher is ready for use as soon as it is started up and it will generate an alarm signal that an abnormal movement has been detected according to the system. The figure below provides a schematic representation of the Epi-Watcher with the screen and buttons that are shown at the time of detection.



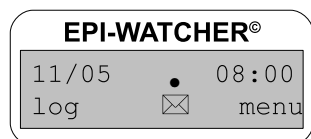
The date and time are shown on the top line of the screen. The function that the user can start by pressing the left or right button is generally shown on the bottom line. In the case of the general screen, as shown in the figure above, you can open the logbook using the left button and the configuration menu using the right button. See chapters 6 and 7 for more information. The figure below emphasises how the screen determines the functions of the left and right buttons. The buttons up and down are used to change configuration values or to select another item.



Epi-Watcher

4. screen icons

Icons may appear in the detection screen as described in the previous chapter. The figure below shows all of the icons that may appear on the Epi-Watcher.



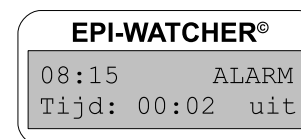
- - Sensor activity
- ✉ - A new message* has been included in the logbook

* The system generates an alarm each time that the Epi-Watcher detects an abnormal movement for the system. A message of this alert is then entered into the logbook.

5. Alarm

The Epi-Watcher continuously reads the sensor and analyses the signals. Using various technologies, it is determined whether or not it concerns an abnormal movement. The settings of the system play a huge role in this respect. You are referred to chapter 6 for more information regarding the settings of the Epi-Watcher.

The system generates an alarm each time that the system detects an abnormal movement. The Epi-Watcher generates a sound signal during an alarm and it switches on external equipment; the nurse call system, for example, or the Vahlkamp Tele-call (see chapter 9). The figure below shows the screen that appears whenever an alarm is generated. The time of the alarm is shown at the top left. The time, in minutes, during which the system generates an alarm is shown on the bottom line. It is indicated at the bottom right that the user can switch off the alarm using the right button.



It is possible that the Epi-Watcher has been set to restore itself automatically, which means that you will not need to switch the alarm off yourself. Whenever you do switch off the alarm, the system will ask you if you are sure. The reason for this is that the alarm cannot be accidentally switched off due to unforeseen situations.

6. System configuration

By selecting the function menu by pressing the right button on the detection screen, as described in chapter 3, you can access the configuration menu. This menu allows you to configure the Epi-Watcher to suit your needs. Each section of this chapter describes a component of the configuration menu.

6.1 Alarm sound

Description

The Epi-Watcher generates a sound signal whenever there is reason for an alarm. The user can adjust the device to generate, or not generate, a sound signal in the case of an alarm.

Option	Description
Off	Sound signal off
On	Sound signal on

6.2 Switching off the alarm

Description

This setting allows the user to choose to have the alarm switch off manually or automatically. If the system is set to switch off automatically, then it will return to its active detection state in 30 seconds.

Keuze Beschrijving

Option	Description
manua	Switch off the alarm manually
auto	Alarm is automatically switched off after 30 seconds

6.3 Initial setting

Description

This function facilitates the initial setting. The system calculates the initial settings based on the user's answers to a number of questions. You are referred to chapter 2 for more information. Make sure that the present data is overwritten when this function is carried out.

6.4 Setting the detection algorithm

Description

By selecting this function, the user can set the detection algorithm separately. The user can set various values of the algorithm.

Setting	Description
Sensitivity movement	1 - 20 1 is very sensitive and 20 is insensitive
Sensitivity intensity	1 - 20 1 is very sensitive and 20 is insensitive
Delay	1 - 20 seconds

6.5 Wireless alarm

Description

A standard accessory of the Epi-Watcher concerns a wireless communication unit. This unit allows you to communicate wirelessly with the Vahlkamp Tele-call so that you can relay the alarm within a radius of 20-25 metres.

Option	Description
Off	Switch off wireless alarm
On	Switch on wireless alarm

6.6 Setting the date and time

Description

The date and time as recorded in the system may alter when you select this function. It is important that these are recorded correctly as the messages in the logbook are linked to a date and time before they are stored.

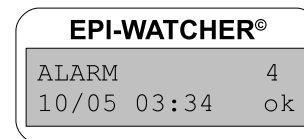
6.7 Deleting messages in logbook

Description

All of the messages in the logbook will be deleted when you select this function.

7. Logbook

The user can select the function 'log' on the detection screen. He/she can view the messages that have been stored in the logbook. All alerts are stored here. A total of 20 messages can be stored. Once the memory is full, the oldest message will be removed as soon as a new message is stored. And so an overview of previous alerts is always available. The logbook screen is shown in the figure below.



It is indicated on screen that it concerns an alert (top left). The message number is shown at the top right and it indicates in this case that four messages have been stored. The bottom line shows the date and time at which the alarm occurred. Press the right button to leave the logbook and return to the detection screen. You can scroll through the messages using the up and down buttons. The message number will indicate 20 once the logbook is full.

8. Optimal setting

It may be difficult to determine your optimal setting. This is partly because every movement is different. The Epi-Watcher can help you determine these settings. Should you at anytime not be satisfied with the present performance of the Epi-Watcher, then you can always opt to adjust the settings of the algorithms. You can do so manually. However, this is often difficult and may lead to frustration, because of a lack of experience with the settings of the Epi-Watcher. The Epi-Watcher can also help you determine the optimal setting. The Epi-Watcher constantly analyses the sensor signal. During this analysis, the system examines which settings best suit the person concerned. Whenever you are not satisfied, you can always return to Initial Setting or Detection Settings. The Epi-Watcher alters the present settings based on the analysis. And so the system works its way to the optimal settings in this way. Should you still not be satisfied with the result in the future, then you can always opt to carry out this function again.

It is not always possible to determine the optimal settings straight away. Give the Epi-Watcher some time and repeat the function each time you are not satisfied. The optimal setting cannot be found at all in rare cases.

9. External equipment

9.1 Nurse call system

It is possible to connect the Epi-Watcher to a nurse call system; the alarm signal is received by a pager within a range of approx. 300 metres. The system includes a standard connection to that end. Vahlkamp has suitable plugs for all of the most common call systems. These can be supplied with the Epi-Watcher.

9.2 Tele-call

The Tele-call system by Vahlkamp signals an alarm through wireless communication. The Tele-call system may be the solution if a nurse call system is not an option. It is certainly a convenient aid in terms of private use. The alarm signal is detected by a receiver that is installed within a radius of 25 metres of the Epi-Watcher and generates an acoustic signal. This receiver can be used in some other room. The Epi-Watcher includes this wireless communication unit as a standard accessory. The receiver immediately relays the alarm signal.

9.3 PA 500+ (Personal alarm)

The Epi-Watcher can be easily connected to the Vahlkamp PA 500+ system. This is a sophisticated personal alarm that contacts (pre-set) telephone numbers. This enables you to call in assistance from a distance. This system is often used for people who live independently and sometimes require help. In addition to being able to live independently, this system ensures safety as it always contacts someone whenever an alert has been generated.

You can contact Vahlkamp for more information on these products.

10. Maintenance

Never use water and/or cleaning agents when cleaning the equipment, only use a dry cloth.

11. Guarantee

Vahlkamp observes a guarantee period of 1 year for all purchases, subject to the normal use of this product. Any repairs that may be necessary during this period will be free of charge.

Defects resulting from incompetent use, breakage, falls, disassembly, fire damage and/or water damage, neglect or incompetent repairs are not covered by the guarantee. If necessary, the buyer is to call upon Vahlkamp, which will then see to the repair.

12. Liability

For damages suffered as a result of shortcoming, an unlawful act or otherwise, the seller is only held liable if the damages are the direct result of and only result from gross negligence on the part of the seller.

The seller is not under any circumstances liable for damages as a result of exceeding terms, neither is it liable for any consequential losses or indirect losses, including damages due to profit loss or missed savings.

13. Technical data

The Epi-Watcher is equipped with the following components:

Adapter : Mains adapter - 12VDC / 300mA

Digital input/output : 4-pol RJ-11 connection

Passive alarm output : Stereo jack input (50V/0.5A)

Wireless transmission unit : 869,2 MHz

Sensor : Epi-Watcher movement sensor

14. Solving problems

Problem:

Solution:

Problem:

Solution:

Problem:

Solution:

Problem:

Solution:

Problem:

Solution:

Problem:

Solution:

Voor meer informatie:



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