Dear Customer.

We are pleased that you have chosen a product from our range. Our name stands for high quality and thoroughly tested quality products in the areas of heat, weight, blood pressure, body temperature, pulse, gentle therapy, massage, beauty

Please read these instructions for use carefully, keep them for later use, make them accessible to other users and

1. Scope of delivery
1x PO 40 Pulsoximeter, 2x 1,5 V AAA Batterien 1x lanyard, 1x belt pouch, 1x these instructions for use

Only use the Beurer pulse oximeter PO 40 on humans to measure arterial oxygen saturation (SpOÿ) of hemoglobin, heart rate (PRbpm) and perfusion index (PI). The pulse oximeter is suitable for use in the private sphere (at home) as well as in the medical field (hospitals, medical facilities).

3. To get to know each other

The Beurer PO 40 pulse oximeter is used for non-invasive measurement of arterial oxygen saturation (SpO2), heart rate (PRbpm) and the perfusion index (PI). The **oxygen saturation** indicates what percentage of the hemoglobin in the arterial blood is loaded with oxygen. It is therefore an important parameter for assessing respiratory function. To measure this, the pulse oximeter uses two light beams of different wavelengiths, which hit the inserted finger inside the housing. A low oxygen saturation value is mainly due to diseases (respiratory diseases, asthma, cardiac insufficiency, etc.).

The following symptoms occur more frequently in people with a low oxygen saturation value: shortness of breath, heart rate increase, loss of performance, nervousness and sweating. A chronic and known reduced oxygen saturation requires monitoring by your pulse oximeter under medical supervision.

An acutely reduced oxygen saturation, with or without accompanying symptoms, must be clarified immediately by a doctor, it can be a life-threatening situation. The pulse oximeter is therefore particularly suitable for high-risk patients such as people with heart disease and asthmatics, but also for athletes and healthy people who move at high altitudes (e.g. mountaineers, skiers or sports pilots).

Features of the pulse oximeter

- Easy to use and easy to transport (also ideal for on the go)
- Compact and lightweight design
 Two-color OLED display showing oxygen saturation (SpO2), pulse rate (PRbpm) and des
- Adjustable display brightness (1 to 10)

 display formats / low battery indicator / auto power off after 8 seconds if no signal received will

4. Explanation of symbols

The following symbols are used in the instructions for use, on the packaging and on the type plate of the device

<u> </u>	WARNING Warning on the risk of injury or danger to your health		Manufacturer
À	DANGER Security notice on possible Damage to device/accessories	⅓	Applied part type BF
①	a notice Note on important information	Pb Cd Hg	Batteries containing harmful substances are not included dispose of household waste
③	Follow the instructions	C € 0483	CE marking This product meets the requirements of the applicable European and national guidelines.
%ЅрОӱ	Arterial oxygen saturation Hemoglobin (in percent)	SN	serial number
PR bpm	Pulse rate (beats per Minute)	∑ SpO₂	alarm suppression
Storage 🔉	Permissible storage temperature and humidity	IP22	Protected against foreign objects ÿ 12.5 mm and against sloping Tropfwasser
Operating (Permissible operating temperature and humidity	Z	Disposal according to electrical and Waste electronic devices EC Directive WEEE (Waste Electrical and Electro nic Equipment)

Failure to observe the following instructions can cause personal injury or damage to property. Keep the instructions for use and make them accessible to other users. Pass on these operating instructions if the device is passed or

⚠ WARNING

- Check that all parts specified in the scope of delivery are included.
- . Check the pulse oximeter regularly to ensure that the device is not used before use
- shows visible damage and the batteries are still sufficiently charged. If in doubt, do not use it and contact Beurer custome service or an authorized dealer.
- Do not use any additional parts that are not recommended by the manufacturer or offered as accessories.
 Under no circumstances may you open or repair the device, as otherwise it cannot be guaranteed that it will fur properly. Failure to do so will void the warranty. For repairs, contact Beurer customer service or an authorized

- ÿ NOT if you are allergic to rubber products
- y NOT if the device or the application finger is wet.

 ÿ NOT or small children or infants.

 ÿ NOT during an MRI or CT scan.

 ÿ NOT during patient transport outside of a medical facility. ÿ NOT during a blood pressure measurement on the arm side with cuff application
- y NOT on fingers with nail polish, dir or plaster bandages.

 ÿ NOT on thick fingers that cannot be easily inserted into the device (fingertip: width approx. > 20 mm, thickness approx. > 15 mm)

 ÿ NOT on fingers with analomical changes, edema, scars or burns.

 ÿ NOT on fingers with anatomical changes, edema, scars or burns.

 ÿ NOT on fingers that are too thin and too small, such as those found in small children (width approx. < 10 mm,
- thickness approx. < 5 mm).
- ÿ NOT on patients who are restless at the application site (eg tremors
- ÿ NOT in the vicinity of flammable or explosive gas mixtures. Prolonged
- use of the pulse oximeter can cause pain in persons with circulatory disorders to lead. Therefore, do not use the pulse oximeter on one finger for more than 30 minutes. This is the only way to ensure correct sensor alignment and skin integrity.

 The pulse oximeter always shows an instantaneous reading, but cannot be used for continuous monitoring. The
- pulse oximeter does not have an alarm function and is therefore not suitable for medical evaluation

- shear results.

 Do not carry out any self-diagnosis or treatment based on the measurement results without consulting your doctor. In particular, do not start a new medication on your own and do not make any changes to the type and/or dosage of an existing medication. • Do not look directly into the inside of the housing during the measurement process. The red light and the invisible
- Infrared light from the pulse oximeter is harmful to the eyes.

 This device is not intended to be used by people (including children) with restricted physical, sensory or mental abilities or lack of experience and/or knowledge, unless they are supervised by a person responsible for their safety or received instructions from her on how to use the device. Children should be supervised to ensure the
- The display of the pulse wave and the pulse column do not allow an estimation of the pulse or blood flow strength at the measuring point, but only serve to display the current optical signal variation at the measuring point, but

Failure to follow the instructions below can result in erroneous measurements or measurement failure:

When using the measuring finger, ensure that the fingernail is short enough for the fingertip to touch the sensor elements

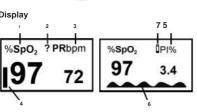
- \bullet If people move during the measurement process. Hold hand, fingers and body during
- measurement process calmly.

 In people with cardiac arrhythmias, readings of oxygen saturation (SpOÿ) and heart
- frequency (PRbpm) may be incorrect or the measurement is not possible at all.

 Pulse oximeter functionality may be impaired when using electrosurgical equipment or defibrillators
- · Pulse oximeter readings are too high in case of carbon monoxide poisoning
- Pruise eximitetr readings are too right in case or carbon monoxide poisoning.
 In order not to falsify the measurement result, there should be no strong light sources (eg fluorescent lamps or direct sunlight) in the immediate vicinity of the pulse oximeter.
 People who have low blood pressure, suffer from jaundice, are taking drugs that cause vasoconstriction, or have low ent result, there should be no strong light sources (eg fluorescent lamps or direct
- blood pressure may experience erroneous or false readings. In patients who have received clinical dyes in the past and in patients with
- In patients with cave reverse unlinear upset in the past and in patients with a false measurement. This applies in particular to commoncide poisoning and methaemoglobin poisoning, which result, for example, from the administration of local anesthetics or if there is a methaemoglobin reductase deficiency.
 In patients with an arterial catheter, hypotension, severe vasoconstriction, anemia or hypothermia
- measurement failure can occur. · Protect the pulse oximeter from dust, shock, moisture, extreme temperatures and explosives

6. Device Description





- 5. Perfusion Index (value in percent)

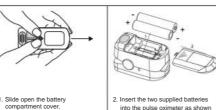
Display format (7 different)

%SpO, PRtspm 97 72	%SpO ₁ PRbpm 97 72	%SpO, PI% 97 3.4	%SpO, PRbpm 197 72	PRtspm %SpO, 97	97 27 PRDpm 72	27 T6	3
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7. Commissioning

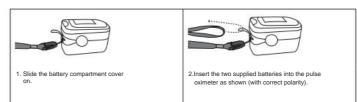
GERMAN

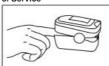
7.1 Insert batteries



7.2 Fasten the neck strap

You can attach a lanyard to the device to make it easier to transport the pulse oximeter (e.g. on the go)





. Slide a finger into the finger hole

of the pulse oximeter as shown.



button. The pulse oximeter starts

measuring. Do not move during



your readings after a few

(i) a notice

- appears on the display, it means that the measurement signal is unstable. The readings displayed are
- invalid.

 If you remove your finger from the pulse oximeter, the device switches off after approx. 8 seconds
- To set your desired display format, briefly press the functions during operation
- To set your desired display brightness, keep the function button pressed during operation

9. Assess measurement results

⚠ WARNING

The following table for evaluating your measurement results does NOT apply to people with certain previous illnesses (e.g. asthma, cardiac insufficiency, respiratory diseases) and for stays at altitudes over 1500 meters. If you have any pre ing conditions, always consult your doctor to evaluate your readings.

Measurement result SpOÿ (oxygen saturation) in 9	6 Classification / Measures to be taken
99-94	normal range
93-90	Depressed area: doctor's consultation recommended 55
< 90	Critical area: Consult a doctor urgently

of Chronic Respiratory Failure Update 2017; Pneumologie 2017; 71: 722795"

Assess perfusion index The Perfusion Index (PI) can range from 0.3% to 20%. It varies depending on the patient, measurement site and physical

condition. A very low PI value can affect the me

Altitude dependent decrease in oxygen saturation

(i) a notice

The table below informs you about the effects of different altitudes on the oxygen saturation value and their consequence for the human organism. The following table does NOT apply to people with certain pre-existing conditions (e.g. asthma, heart failure, respiratory diseases, etc.). Symptoms (e.g. hypoxia) can already occur at lower altitudes in person

altitude	Expected SpOÿ value (oxygen saturation) in %	consequences for humans
1500-2500 m	> 90	No altitude sickness (usually)
2500-3500 m	~90	Altitude sickness, adaptation recommended
3500-5800 m	<90	Very frequent occurrence of altitude sickness, adaptation absolutely necessary
5800-7500 m	<80	Severe hypoxia, only temporary stay possible
7500-8850 m	<70	Immediate acute danger to life

Quelle: Hackett PH, Roach RC: High-Altitude Medicine. In: Auerbach PS (ed): Wilderness Medicine, 3rd edition; Mosby St.Louis, MO 1995; 1-37.

10. Cleaning / Maintenance

/ DANGER:

Do not use high pressure or ethylene oxide sterilization on the pulse oximeter! The device is not suitable for sterilization. Never hold the pulse oximeter under water, otherwise liquid can penetrate and damage the pulse

oximeter. • After each use, clean the housing and the rubberized inner surface of the pulse oximeter with a

- If the pulse oximeter display shows a low battery condition, replace the batteries • If you will not be using the pulse oximeter for more than a month, remove both batteries from the device

11. Retention ⚠ DANGER:

Store the pulse oximeter in a dry environment (relative humidity ÿ93%). Excessive humidity can shorten the life of the pulse oximeter or damage it. Store the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is between -25°C and the pulse oximeter in a place where the ambient temperature is a

12. Disposal

ose of the device in accordance with the WEEE (Waste Electrical and Electronic Equipment) directive

If you have any questions, please contact the local authority responsible for disposal

The used, completely discharged batteries are to be disposed of via the specially marked collection hazardous waste collection points or via the electronics retailer. You are legally obliged to dispose of the batteries

Note: You will find these symbols on batteries containing harmful substances

13. What to do in case of problems?

Problem	Possible Cause	fix
"Finger out" is on the displayed	The measuring finger is not inserted correctly in the pulse oximeter	Place the measuring finger back into the pulse oximeter.
Readings will not displayed correctly	Measured SpOÿ is too low (<70%)	Carry out the measurement again. If the problem occurs repeatedly and the device is in perfect condition, it is essential to consult a doctor.
	strong light source (e.g. fluorescent lamp or direct sunlight) is nearby	Keep the pulse oximeter away from strong light sources.
Pulse oximeter shows measurement interruptions or high	Insufficient blood flow to the Messfingers	Warning and safety notices in Note Chapter 5
measured value jumps	Measuring finger is too big or too small.	Fingertip must have the following dimensions: width between 10 - 20 mm Thickness between 5 -15mm
	Finger, hand or body is in motion	Keep your fingers, hand and body still during the measurement.
	cardiac arrhythmias	Consult a doctor.

	<u></u>	
Problem	Possible Cause	fix
Pulse oximeter does not turn	Batteries are empty	Replace the batteries
on	Batteries are not inserted correctly	Reinsert the batteries
	The pulse oximeter is defective	Contact your dealer or customer service
Indicator lights are suddenly off	The pulse oximeter will automatically turn off after 8 seconds if no signal is received.	Turn the pulse oximeter back on with the ON/OFF button.
	Batteries are empty	Replace the batteries
"Error 3" will appear on the displayed	The red light reception LED is defective	Contact your dealer or customer service
"Error 4" will be on the displayed	The infrared light receiving LED is defective	Contact your dealer or customer service
"Error 6" will appear on the displayed	The display is defective	Contact your dealer or customer service
"Error 7" will appear on the displayed	The reception LEDs are defective	Contact your dealer or customer service

Model no.	AFTER 40	
measurement method	Non-invasive measurement of arterial oxygen saturation of hemoglobin, pulse rate and perfusion index on the finger.	
measuring range	SpOÿ (oxygen saturation): 70 - 100%, pulse: 30 - 250 bpm, PI: 0.3 - 20%	
accuracy	SpOÿ (oxygen saturation): 70 - 100%, ±2%, Pulse: 30 - 250 bpm, ±2 beats/minute Pl: 0,3% - 1%; ±0.2 digits; >1,1% ±20%	
Dimensions	L 58,4 mm x B 33,5 mm x H 37 mm	
Weight	Approx. 57 g (including batteries)	
Sensor technology for measuring SpOÿ	red light (wavelength 660 nm); infrared (wavelength 905 nm); Silicon receiver diode	
Permissible operating conditions	+5°C to +40°C, 15 - 93% relative humidity, 86 - 106 kPa ambient pressure	
Permissible storage conditions	-25°C to +70°C, ÿ93% relative humidity, 86 - 106 kPa ambient pressure	
power supply	2x 1,5 V AAA batteries	
battery life	2 AAA alkaline batteries enable approx. 2 years of operation with 1 measurement per day (each 60 seconds).	

The serial number can be found on the device or in the battery compartment.

Specifications are subject to change without notice for update reasons

 This device conforms to European standards EN60601-1 and EN60601-1-2 (compliance with CISPR, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-8) and is subject to special precautions regarding electromagnee. compatibility . Please note that portable and mobile HF communications equipment can affect this device. You can request more detailed information from the customer service address provided.

IP22, type BF applied part

The device complies with the EU directive for medical products 93/42/EEC, the Medical Devices
 Act and the standard DIN EN ISO 80601-2-61 (medical electrical devices - special specifications
 for the basic safety and the essential performance features of pulse oximeters for medical Use).

Notes on Electromagnetic Compatibility

MARNING

- The device is suitable for use in all environments specified in this user manual, including the domestic environment.
- The device may only function to a limited extent in the presence of electromagnetic disturbances. As a result, error messages or a failure of the display/device may occur.
- The use of this device adjacent to other devices or stacked with other devices should be avoided as it may result in improper operation. If use of the prescribed type is nevertheless necessary, this device and the other devices should be observed to ensure that they are working properly.
- . The use of accessories other than those specified or specified by the manufacturer of this device
- The use of accessories other than mose specime or specime by the manufacturer of this device
 has made available, can result in increased electromagnetic interference emissions or reduced electromagnetic
 interference immunity of the device and lead to incorrect operation.
 Keep portable RF communications equipment (including peripherals such as antenna cables or external
 antennas) at least 30cm away from all parts of the device, including all cables included in the scope of delivery.
 Non-observance can lead to a reduction in the performance characteristics of the device.
 Non-observance can lead to a reduction in the performance characteristics of the device.

The following warranty conditions do not affect the statutory warranty obligations of the seller from the purchase contract with the buyer. The guarantee also applies without prejudice to mandatory statutory liability regulations

Beurer GmbH, Söflinger Straße 218, D-89077 Ulm (hereinafter referred to as "Beurer") grants a guarantee for this product

The worldwide guarantee period is 5 years from the start of the purchase of the new, unused product by the buyer.

This guarantee only applies to products that the buyer has purchased as a consumer and uses exclusively for personal purposes within the framework of domestic use. German law applies.

If this product proves to be incomplete or defective in terms of functionality during the guarantee period in accordance with the following provisions, Beurer will carry out a replacement delivery or repair free of charge in accordance with these

If the buyer would like to report a warranty claim, they should first contact Beurer Customer Service:

For speedy processing, please use our contact form on the website www.beurer.com under the heading 'Service'

The buyer then receives more detailed information on how to process the guarantee case, eg where to send the product free of charge and which documents are required.

A claim under the guarantee can only be considered if the buyer can present - a copy of the invoice/purchase receipt and - the original product to Beurer or an authorized Beurer partner.

Beurer guarantees the flawless functionality and completeness of this product

Specifically excluded from this warranty are - wear and tear resulting from normal use or consumption of the product; - accessories supplied with this product which wear out or become exhausted with normal use (e.g. batteries, rechargeable batteries, cuffs, seals, electrodes, lamps, attachments, inhaler accessories); - Products that

have been used, cleaned, stored or serviced improperly and/or contrary to the provisions of the operating instructions, as well as products that have been opened, repaired or modified by the buyer or a service center not authorized by Beurer;

Products purchased as 2nd choice or used items;

Consequential damage based on a defect in this product (in this case, however, there may be claims based on pro-







ENGLISH

Dear customer,

Thank you for choosing one of our products. Our name stands for high-quality, thoroughly tested products for applications in the areas of heat, weight, blood pressure, body temperature, pulse, gentle therapy, massage, beauty, baby and air

Please read these instructions for use carefully and keep them for later use, be sure to make them ac

1. Included in delivery

1x PO 40 pulse oximeter, 2x 1,5 V AAA batteries, 1x lanyard, 1x belt bag, 1x these instructions for use

2. Intended use

Only use the Beurer PO 40 pulse oximeter on humans to measure the arterial oxygen saturation (SpOy) of haemo globin, the heart rate (PRbpm) and the perfusion index (PI). The pulse oximeter is suitable for private use (at home) as well as for use in the medical sector (hospitals, medical establishments).

3. Getting to know your instrument

The Bourer PO 40 pulse oximeter provides a non-invasive measurement of the arterial oxygen saturation (SpO2), the heart rate (pulse rate) (PRbpm) and the perfusion index (PI). Oxygen saturation indicates the percentage of haemoglobin in arterial blood that is loaded with oxygen. Therefore it is an important parameter for assessing the respiratory function. To take a measurement, the pulse oximeter uses two rays of light with differing wavelengths, which strike the finger inserted inside the housing. A low oxygen saturation value gener indicates underlying illnesses (respiratory diseases, asthma, heart failure etc.).

People with a low oxygen saturation value are more likely to experience the following symptoms: shortness of breath, increased heart rate, weakness, nervousness and outbreaks of sweating. If oxygen saturation is known to be chronically diminished, it requires monitoring using the pulse oximeter under medical supervision. If you have acutely diminished oxygen saturation, with or without the accompanying symptoms, you must consult a doctor immediately as it could lead to a life-threatening situation. The pulse oximeter is particularly suitable for patients at risk such as people with heart disease or asthma, but also for athletes and healthy people who exercise at high altitude (e.g. mountaineers, skiers or amateur pilots).

Features of the pulse oximeter

- Easy to use and to take with you (ideal for on the go) · Compact, lightweight design
- Two-colour OLED display, readings for oxygen saturation (SpO2), pulse rate (PRbpm) and perfusion index (PI) are shown
- Adjustable display brightness (1 to 10)
- 7 display formats/low battery indicator/automatic switch-off after 8 seconds if no signal is received

4. Signs and symbols

ed in these instructions for use, on the packaging and on the type plate for the device:

$\hat{\underline{\mathbb{V}}}$	WARNING Warning instruction indicating a risk of injury or damage to health	<u></u>	Manufacturer
\triangle	IMPORTANT Safety note regarding potential for damage to the device/accessories	፟ጰ	Application part, type BF
(i)	Note Note on important information	Pis Cd Hg	Do not dispose of batteries containing hazardous substances with household waste.
③	Observe the instructions for use	C € 0483	CE labelling This product satisfies the require ments of the applicable European and national directives.
%SpOÿ	Arterial oxygen saturation of haemoglobin (in percent)	SN Serial nur	nber
PR bpm Puls	e rate (beats per minute)	∑ SpO₂	Alarm suppression
Storage	Permissible storage temperature and humidity	IP22	Device protected against foreign objects ÿ 12.5 mm and against falling drops of water
Operating (Permissible operating temperature and humidity	A	Disposal in accordance with the Waste Electrical and Electronic Equipment EC Directive – WEEE

5. Warnings and safety notes

Non-observance of the following information may result in personal injury or material damage. Store these instructions for use and make them accessible to other users. Make sure you include these instructions for use when handing over the device to third parties.



- Check to ensure that the package contains all the parts that should be included in the delivery. . Check the pulse oximeter regularly before use to ensure that there is no visible damage to the device and the batteries are still sufficiently charged. In case of doubt, do not use the device and contact Beurer cu services or an authorised retailer.
- Do not use any additional parts that are not recommended by the manufacturer or offered as equipment Under no circumstances should you open or repair the device yourself, as faultless functionality could no longer be guaranteed thereafter. Failure to comply will result in voiding of the warranty. For repairs, please contact Beurer customer services or an authorised retailer.
- ÿ if you are allergic to rubber products
- \ddot{y} if the device or the finger you are using is damp. \ddot{y} on small children or babies.
- ÿ during an MRI or CT scan.
- y duling an instruction of statis.

 ÿ while transporting a patient other than within a medical establishment.

 ÿ while transporting a patient other than within a medical establishment.

 ÿ while transporting a patient other than within a medical establishment.

 ÿ on ingers that have nail variaths on, are dirty or have a plaster or other dressing on them.

 ÿ on large fingers that do not fit into the device easily (fingertip: width approx. > 20 mm, thickness approx. >15

- \bar{y} on fingers with anatomical changes, oedemas, scars or burns. \bar{y} on fingers that are too small, as with small children for example (width approx. < 10 mm, thickness < 5 mm) \bar{y} on patients who are not steady at the site of application (e.g. trembling).
- ÿ near flammable or explosive gas mixtures
- Using the device for long periods may cause pain for people with circulatory disorders. Therefore do not use the pulse oximeter for longer than 30 minutes on one finger. This is essential to ensure correct sensor orientation and to safeguard the integrity of the skin.
 The pulse oximeter displays an instantaneous measurement but cannot be used for continuous monitoring.
- The pulse oximeter does not have an alarm function and is therefore not suitable for evaluating medical results Do not self-diagnose or self-medicate on the basis of the measurements without consulting your doctor. In particular, do not start taking any new medication or change the type and/or dosage of any existing medication without prior ap
- Do not look directly inside the housing during the measurement. The red light and the invisible infra-red light in
- the pulse oximeter are harmful to your eyes.

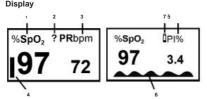
 This device is not intended for use by people (including children) with restricted physical, sensory or mental skills or a lack of experience and/or a lack of knowledge, unless they are supervised by a person who has responsibility for their safety or they receive instructions from this person on how to use the device. Children should be supervised around the device to ensure they do not play with it. • The displays for the pulse wave and pulse bar allows the strength of the pulse or circulation to be evaluated at the measurement site. Rather, they
- are exclusively used to display the current visual signal variation at the measurement site and do not enable

Non-observance of the following instructions can lead to incorrect or failed

- There must not be any nail varnish, artificial nails or other cosmetics on the finger to be measured. Ensure that the finger nail on the finger to be measured is short enough that the fingertip covers the sensor
- · For people with cardiac arrhythmia, the oxygen saturation level (SpOÿ) readings and the heart rate (PRbpm) may
- be incorrect or the measurement may not be possible at all.
- If an electronic surgical device or defibrillator is used, the functioning of the pulse eximeter may be impaired.
- In cases of carbon monoxide poisoning, the pulse oximeter displays a measurement value that is too high.
 To avoid falsifying the measuring result, there should not be any strong light sources (e.g. fluorescent lamps or direct sunlight) in the immediate vicinity of the pulse oximeter.
- People with low blood pressure, who suffer from jaundice or take medication for vascular contraction may
- experience incorrect or falsified measurements . Incorrect measurements are likely for patients who have been administered medical dye in the past or for those who have abnormal haemoglobin levels. This applies in particular for cases of carbon monoxide poisoning a methaemoglobin poisoning, which can occur for example from the administration of local anaesthetics or fro existing methaemoglobin reductase deficiency.
- . The measurement may be falsified in patients with an arterial catheter, hypotension, severe vascula
- constriction, anaemia or hypothermia • Protect the pulse oximeter from dust, shocks, moisture, extreme temperatures and explosive materials

6. Unit description Device

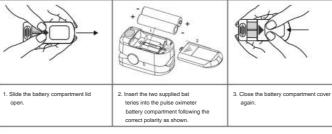




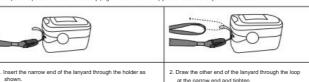
- 4. Pulse bar
- 6. Pulse wave (plethysmographic wave 7. Battery level indicator
- Display formats (7 different formats)

7. Initial use

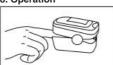
7.1 Inserting the batteries



7.2 Attaching the lanvard



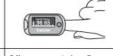
8. Operation



shown and hold it steady.



at the narrow end and tighten



The pulse oximeter begins its measurement. Do not move of

appear on the screen after a few



- If the ?, symbol appears on the display this indicates that the measurement signal is unstable, and the readings shown are invalid.
- When you remove your finger from the pulse oximeter, the device will automatically switch off after approx. 8ÿseconds.
- To select your desired display format, hold down the function button briefly during operation
- To select your desired display brightness, hold down the function button for slightly longer during operation

9. Evaluating measurement results

The following table for evaluating your measurements does NOT apply to people with certain pre-existing con diti-heart failure, respiratory diseases) or whilst staying at altitudes above 1500 metres. If you have a pre-existing cor-your doctor to evaluate your measurements.

SpOÿ (oxygen saturation) measurement in %	Classification/measures to be taken
99-94	Normal range
93-90	Decreased range: Visit to the doctor recommended
< 90	Critical range: Seek medical attention urgently

Source: Adapted to "Windisch W et al. Guidelines for Non-Invasive and Invasive Home Mechanical Ventilation for Treatment of Chronic ory Failure Update 2017; Pneumologie 2017; 71: 722795"

Evaluating perfusion index

The perfusion index (PI) may lie between 0.3% and 20%, and varies depending on the patient, measurement location and state of health. A very low PI value can impair the measurement.

Decline in oxygen saturation depending on altitude



The following table informs you of the effects of various altitudes on oxygen saturation value and its impact following table does NOT apply to people with certain pre-existing conditions (e.g. asthma, heart failure, res

Altitude	Expected SpOÿ value (oxygen saturation) in %	Impact on human body
1500-2500 m	> 90	No altitude sickness (normally)
2500-3500 m	~90	Altitude sickness, acclimatisation recommended
3500-5800 m	<90	Very frequent altitude sickness, acclimatisation absolutely essential
5800-7500 m	<80	Severe hypoxia, only limited length of stay possible
7500-8850 m	<70	Immediate, acute danger to life

Source: Hackett PH, Roach RC: High-Altitude Medicine. In: Auerbach PS (ed): Wilderness Medicine, 3rd edition; Mosby, St.Louis, MO

10. Maintenance/cleaning



Do not use high pressure or ethylene oxide sterilisation on the pulse oximeter! The device is not suital for sterilisation

Under no circumstances should you hold the pulse oximeter under water, as this can cause liquid to enter and damage the pulse oximeter. • Clean the housing and the interior rubber surface with a soft cloth dampened with medical alcohol after each

- use.

 If a low battery status appears on the display of the pulse oximeter, change the batteries.

 If you are not going to use the pulse oximeter for more than one month, remove both batteries from the device to avoid possible leaking.

11. Storage

⚠ IMPORTANT:

Store the pulse oximeter in a dry place (relative humidity §93%). If the humidity is too high it may shorten the service life of the pulse oximeter or damage it. Store the pulse oximeter in a place where the ambient temperature is between -25°C and 70°C.

Please dispose of the device in accordance with EC Directive – WEEE (Waste Electrical and Electronic Equipment). If you have any questions, please contact the local authorities responsible for waste disposal. The empty, completely flat batteries should be disposed of through specially designated collection boxes, recycling points or electronics retailers. You are legally required to dispose of the batteries

Note: The codes below are printed on batteries containing harmful substances: Pb = Battery contains lead, Cd = Battery contains cadmium, Hg = Battery contains mercury

13. What if there are problems?

Problem	Possible cause	Solution
"Finger out" appears on the display	The finger on which the measurement is being taken has not been inserted properly in the pulse oximeter	Insert the finger in the pulse oximeter again
Measurement values are not correctly dis played	The measured SpOÿ is too low (<70%) Do the mea	surement again. If the prob lem occurs repeatedly and the device is functioning properly, seek medical advice as a matter of urgency
	There is a strong light source (e.g. fluorescent lamp or direct sunlight) in the vicinity	Remove pulse oximeter from the vicinity of these light sources
The pulse oximeter is displaying measure ment	Insufficient circulation in the measure ment finger	Observe the warnings and safety notes in section 5
interruptions or high measurement value jumps	Measurement finger is too large or too small	Fingertip must have the following measurements: Width between 10 and 20 mm Thickness between 5 and 15 mm
	Finger, hand or body is moving	Keep your finger, hand and body still during the measurement.
	Cardiac arrhythmia	Seek medical attention
Pulse oximeter will not switch on.	Batteries are flat	Replace the batteries
switch on.	The batteries have not been inserted correctly	Reinsert the batteries
	The pulse oximeter is faulty.	Contact the retailer or Customer Services
Indicator light goes out suddenly	The pulse oximeter switches off automatically after 8 seconds if it is not receiving a signal	Switch the pulse oximeter on again using the ON/OFF button.
	Batteries are flat	Replace the batteries
"Error 3" appears on the display	The red light receiving LED is faulty	Contact the retailer or Customer Services
"Error 4" appears on the display	The infrared light receiving LED is faulty Contact the	e retailer or Customer Services

Problem Possible cause Solution "Error 6" appears on The display is faulty. Contact the retailer or Custome Contact the retailer or Customer "Error 7" appears on The receiving LEDs are faulty

14. Technical data

Measurement method Non	invasive measurement of arterial oxygen saturation of haemoglobin, pulse rate and perfusion index in
	finger.
Measurement range	SpOỹ (oxygen saturation): 70 - 100%, pulse: 30 - 250 beats/minute Pl: 0.3 - $20\ \%$
Accuracy	SpOÿ (oxygen saturation): 70 - 100%, ±2%, pulse: 30 - 250 bpm, ±2 beats/minute PI: 0.3% - 1%; ±0.2 digits; >1.1% ±20%
Dimensions	L 58.4 mm x W 33.5 mm x H 37 mm
Weight	Approx. 57 g (including batteries)
Sensor to measure SpOÿ F	Red light (wave length 660 nm); infra-red (wave length 905 nm); silicon receiver diode
Permissible operating conditions	+5°C to +40°C, ÿ15 - 93% relative humidity, 86 - 106 kPa ambient pressure
Permissible storage conditions	-25°C to +70°C, ÿ93% relative humidity, 86 - 106 kPa ambient pressure
Power supply	2 x 1.5V AAA batteries
Battery life	2 AAA alkaline batteries last for approx. 2 years of operation at 1 measurements per day (each of 60 seconds).
Classification	IP22, application part, type BF

- Technical information is subject to change without notification to allow for updates.

 This device conforms with the European standards EN60601-1 and EN60601-1-2 (In accordance with CISPR, IEC 61000-4-2, IEC 61000-4-3 and IEC 61000-4-8) and is subject to particular precautions with regard to electromagnetic compatibility. Please note that portable and mobile HF communication systems may interfere with this device. For more details, please contact our Customer Services
- at the aduress inducated.

 It is device complies with EU Directive 93/42/EEC concerning medical devices, the Medizinproduktegesetz (German Medical Devices Act) and the DIN EN ISO 80601-2-61 standard (Medical electrical equipment Particular requirements for the basic safety and essential performance of pulse oximeter equipment for medical use).

Notes on electromagnetic compatibility

- The device is suitable for use in all environments listed in these instructions for use, including domestic envi
- The use of the device may be limited in the presence of electromagnetic disturbances. This could result in issues such as error messages or the failure of the display/device.
- Avoid using this device directly next to other devices or stacked on top of other devices, as this could lead to faulty operation. If, however, it is necessary to use the device in the manner stated, this device as well as the other devices must be monitored to ensure
- The use of accessories other than those specified or provided by the manufacturer of this device can lead to an increase in electromagnetic emissions or a decrease in the device's electromagnetic immunity; this can result in faulty operation.
- Keep portable RF communication devices (including peripheral equipment, such as antenna cables or external antennas) at least 30 cm away from all device parts, including all cables included in delivery. Failure to comply with the above can impair the performance of the
- Failure to comply with the above can impair the performance of the device.

15. Warranty/service

Beurer GmbH, Söffinger Straße 218, 89077 Ulm, Germany (hereinafter referred to as "Beurer") provides a warranty for this product, subject to the requirements below and to the extent described as follows.

The warranty conditions below shall not affect the seller's statutory warranty obligations which ensue from the sales agreement with the buyer.

The warranty shall apply without prejudice to any mandatory statutory provisions on liability.

Beurer guarantees the perfect functionality and completeness of this product

The worldwide warranty period is 5 years, commencing from the purchase of the new, unused product from the seller

The warranty only applies to products purchased by the buyer as a consumer and used exclusively for personal purposes in the context of domestic use. German law shall apply.

During the warranty period, should this product prove to be incomplete or defective in functionality in accordance with the following

If the buyer wishes to make a warranty claim, they should approach their local retailer in the first instance: see the attached "International Service" list of service addresses. The buyer will then receive further information about the processing of the warranty claim, e.g. where they can send the product and

A warranty claim shall only be considered if the buyer can provide Beurer, or an authorised Beurer partner, with - a copy of the invoice/

The following are explicitly excluded from this warranty:

The following are explicitly excluded from this warranty: deterioration due to normal use or consumption of the product;
- accessories supplied with this product which are worn out or used up through proper use (e.g. batteries, rechargeable batteries, cuffs, seals, electrodes, light sources, attachments and nebuliser accessories): - products that are used, cleaned, stored or maintained improperly and/or contrary to the provisions of the instructions for use, as well as products that have been oppened, repaired or modified by the buyer or by a service centre not authorised by Beurer; - damage that arises during transport between manufacturer and customer, or between service centre and

products purchased as seconds or as used goods;
 consequential damage arising from a fault in this product (however, in this case, claims may exist arising to product liability or other compulsory statutory liability provisions).

Renairs or an exchange in full do not extend the warranty period under any circum

Subject to errors and changes