

DEUTSCH

Sehr geehrte Kundin, sehr geehrter Kunde,

wir freuen uns, dass Sie sich für ein Produkt unseres Sortimentes entschieden haben. Unser Name steht für hochwertige und eingehend geprüfte Qualitätsprodukte aus den Bereichen Wärme, Gewicht, Blutdruck, Körpertemperatur, Puls, Sanfte Therapie, Massage, Beauty, Baby und Luft. Bitte lesen Sie diese Gebrauchsanweisung aufmerksam durch, bewahren Sie sie für späteren Gebrauch auf, machen Sie sie anderen Benutzern zugänglich und beachten Sie die Hinweise.

Mit freundlicher Empfehlung
Ihr Beurer-Team

1. Lieferumfang

1x PO 40 Pulsoximeter, 2x 1,5 V AAA Batterien , 1x Umhängeband, 1x Gürteltasche, 1x diese Gebrauchsanweisung

2. Bestimmungsgemäße Verwendung

Verwenden Sie das Beurer Pulsoximeter PO 40 ausschließlich am Menschen zur Messung der arteriellen Sauerstoffsättigung (SpO₂) des Hämoglobins, der Herzfrequenz (PRbpm) und des Perfusions Index (PI). Das Pulsoximeter eignet sich sowohl zur Verwendung im privaten Umfeld (zu Hause) als auch im medizinischen Bereich (Krankenhäusern, medizinischen Einrichtungen).

3. Zum Kennenlernen

Das Beurer Pulsoximeter PO 40 dient der nichtinvasiven Messung der arteriellen Sauerstoffsättigung (SpO₂), der Herzfrequenz (PRbpm) und des Perfusions Index (PI). Die **Sauerstoffsättigung** gibt an, wie viel Prozent des Hämoglobins im arteriellen Blut mit Sauerstoff beladen sind. Daher ist sie ein wichtiger Parameter für die Beurteilung der Atemfunktion. Das Pulsoximeter verwendet hierfür zur Messung zwei Lichtstrahlen unterschiedlicher Wellenlänge, die im Gehäusesinneren auf den eingeleagten Finger auftreffen. Einem niedrigen Sauerstoffsättigungswert liegen überwiegend Erkrankungen (Atemwegserkrankungen, Asthma, Herzinsuffizienz etc.) zu Grunde. Bei Menschen mit einem niedrigen Sauerstoffsättigungswert kommt es vermehrt zu folgenden Symptomen: Atemnot, Herzfrequenzerhöhung, Leistungsabfall, Nervosität und Schweißausbrüche. Eine chronische und bekannte erniedrigte Sauerstoffsättigung benötigt eine Überwachung durch Ihr Pulsoximeter unter ärztlicher Kontrolle. Eine akut erniedrigte Sauerstoffsättigung, mit oder ohne Begleitsymptome, ist sofort ärztlich abzuklären, es kann sich dabei um eine lebensbedrohliche Situation handeln. Das Pulsoximeter eignet sich daher insbesondere für Risikopatienten wie Personen mit Herzerkrankungen, Asthmatiker, aber auch für Sportler und gesunde Personen, die sich in großen Höhen bewegen (z.B. Bergsteiger, Skifahrer oder Sportflieger).

Merkmale des Pulsoximters

- Einfach zu bedienen und leicht zu transportieren (ideal auch für unterwegs)
- Kompakte und leichte Bauweise
- Zweifarbiges OLED-Display, Anzeige der Sauerstoffsättigung (SpO₂), der Pulsfrequenz (PRbpm) und des Perfusions Index (PI)
- Einstellbare Displayhelligkeit (1 bis 10)
- 7 Anzeigeformate / Niedrig-Batterianzeige / Abschaltautomatik nach 8 Sekunden, wenn kein Signal empfangen wird

4. Zeichenerklärung

In der Gebrauchsanweisung, auf der Verpackung und auf dem Typschild des Geräts werden folgende Symbole verwendet:

	WARNUNG Warnhinweis auf Verletzungsgefahren oder Gefahren für Ihre Gesundheit		Hersteller
	ACHTUNG Sicherheitshinweis auf mögliche Schäden an Gerät/Zubehör		Anwendungsteil Typ BF
	Hinweis Hinweis auf wichtige Informationen		Schadstoffhaltige Batterien nicht im Hausmüll entsorgen
	Gebrauchsanweisung beachten		CE-Kennzeichnung Dieses Produkt erfüllt die Anforderungen der geltenden europäischen und nationalen Richtlinien.
	%SpO ₂ Arterielle Sauerstoffsättigung des Hämoglobins (in Prozent)		Seriennummer
	PR bpm Pulsfrequenz (Pulsschläge pro Minute)		Alarmunterdrückung
	Storage Zulässige Lagerungstemperatur und-luftfeuchtigkeit		Geschützt gegen Fremdkörper ≥ 12,5 mm und gegen schräges Tropfwasser
	Operating Zulässige Betriebstemperatur und-luftfeuchtigkeit		Entsorgung gemäß Elektro- und Elektronik-Altgeräte EG-Richtlinie WEEE (Waste Electrical and Electronic Equipment)

5. Warn- und Sicherheitshinweise

Ein Nichtbeachten der nachfolgenden Hinweise kann Personen- oder Sachschäden verursachen. Bewahren Sie die Gebrauchsanweisung auf und machen Sie diese auch anderen Anwendern zugänglich. Übergeben Sie diese Gebrauchsanweisung bei Weitergabe des Geräts.

⚠️ WARNUNG

- Überprüfen Sie, ob alle im Lieferumfang angegebenen Teile enthalten sind.
 - Überprüfen Sie das Pulsoximeter regelmäßig, um sicherzustellen, dass das Gerät vor dem Gebrauch keine sichtbaren Schäden aufweist und die Batterien noch ausreichend geladen sind. Benutzen Sie es im Zweifelsfall nicht und wenden Sie sich an den Beurer-Kundendienst oder an einen autorisierten Händler.
 - Benutzen Sie keine Zusatzteile, die nicht vom Hersteller empfohlen bzw. als Zubehör angeboten werden.
 - Sie dürfen das Gerät keinesfalls öffnen oder reparieren, da sonst eine einwandfreie Funktion nicht gewährleistet werden kann. Bei Nichtbeachten erlischt die Garantie. Wenden Sie sich bei Reparaturen an den Beurer-Kundendienst oder an einen autorisierten Händler.
- Verwenden Sie das Pulsoximeter
- NICHT, wenn Sie allergisch auf Gummiprodukte reagieren.
 - NICHT, wenn das Gerät oder der Anwendungsfinger feucht ist.
 - NICHT an Kleinkindern oder Säuglingen.
 - NICHT während einer MRT- oder CT-Untersuchung.
 - NICHT während eines Patiententransports außerhalb einer medizinischen Einrichtung.
 - NICHT während einer Blutdruckmessung auf der Arterie mit Manschettenanwendung.
 - NICHT an Fingern mit Nagellack, Beschmutzungen oder Pflesterverbänden.
 - NICHT an Fingern mit großer Fingerdicke, die nicht zwanglos in das Gerät einführbar sind (Fingerspitze: Breite ca. > 20 mm, Dicke ca. >15 mm)
 - NICHT an Fingern mit anatomischen Veränderungen, Ödemen, Narben oder Verbrennungen.
 - NICHT an Fingern mit zu geringer Dicke und Breite, wie sie zum Beispiel bei Kleinkindern vorkommen (Breite ca. < 10 mm, Dicke ca. < 5 mm).
 - NICHT an Patienten, die am Anwendungsort unruhig sind (z.B. Zittern).
 - NICHT in der Nähe von brennbaren oder explosiven Gasgemischen.

- Bei Personen mit Durchblutungsstörungen kann eine längere Benutzung des Pulsoximters zu Schmerzen führen. Verwenden Sie daher das Pulsoximeter nicht länger als 30 Minuten an einem Finger. Nur so kann eine korrekte Sensorausrichtung und Unversehrtheit der Haut gewährleistet werden.
- Das Pulsoximeter zeigt jeweils einen momentanen Messwert, kann aber nicht für eine kontinuierliche Überwachung verwendet werden.
- Das Pulsoximeter verfügt über keine Alarmfunktion und eignet sich daher nicht zur Bewertung medizinischer Ergebnisse.
- Führen Sie aufgrund der Messergebnisse keine Selbstdiagnose oder -behandlung ohne Rücksprache mit Ihrem behandelnden Arzt durch. Setzen Sie insbesondere nicht eigenmächtig eine neue Medikation an und führen Sie keine Änderungen in Art und / oder Dosierung einer bestehenden Medikation durch.
- Schauen Sie während des Messvorgangs nicht direkt in das Gehäusesinner. Das Rotlicht und das unsichtbare Infrarot-Licht des Pulsoximters sind schädlich für die Augen.
- Dieses Gerät ist nicht dafür bestimmt, durch Personen (einschließlich Kinder) mit eingeschränkten physischen, sensorischen oder geistigen Fähigkeiten oder mangels Erfahrung und/oder mangels Wissen benutzt zu werden, es sei denn, sie werden durch eine für Ihre Sicherheit zuständige Person beaufsichtigt oder erhalten von ihr Anweisungen, wie das Gerät zu benutzen ist. Kinder sollten beaufsichtigt werden, damit sie nicht mit dem Gerät spielen.
- Die Anzeige der Pulsweite sowie der Pulssäule, erlauben keine Abschätzung über die Puls- oder Durchblutungsstärke am Messort, sondern dienen ausschließlich der Darstellung der aktuellen optischen Signalvariation am Messort, sie ermöglichen jedoch nicht eine sichere Pulsdiagnostik.

Bei Nichtbeachtung der nachfolgenden Anweisungen kann es zu fehlerhaften Messungen oder Messversagen kommen:

- Auf dem Messfinger darf sich kein Nagellack, Kunstnagel oder andere Kosmetika befinden.
- Achten Sie beim Messfinger darauf, dass der Fingernagel so kurz ist, dass die Fingerbeere die Sensorelemente im Gehäuse bedeckt.
- Wenn sich Personen während des Messvorgangs bewegen. Halten Sie Hand, Finger und Körper während des Messvorgangs ruhig.
- Bei Personen mit Herzrhythmusstörungen können die Messwerte der Sauerstoffsättigung (SpO₂) und der Herzfrequenz (PRbpm) verfälscht sein oder die Messung ist gar nicht erst möglich.
- Bei Verwendung von Elektrochirurgiegeräten oder Defibrillatoren kann die Funktionalität des Pulsoximters beeinträchtigt werden.
- Das Pulsoximeter zeigt im Falle von Kohlenmonoxidvergiftungen zu hohe Messwerte an.
- Um das Messergebnis nicht zu verfälschen, sollte sich in der unmittelbaren Umgebung des Pulsoximters keine starke Lichtquelle (z.B. Leuchtstofflampe oder direkte Sonneneinstrahlung) befinden.
- Bei Personen, die einen niedrigen Blutdruck haben, unter Gelbsucht leiden, Medikamente zur Gefäßkontraktion einnehmen oder eine niedrige Blut kann es zu fehlerhaften oder verfälschten Messungen kommen.
- Bei Patienten, denen in der Vergangenheit klinische Farbstoffe verabreicht wurden und bei Patienten mit abnormalem Hämoglobinvorkommen ist mit einer Messverfälschung zu rechnen. Dies gilt insbesondere bei Kohlenmonoxidvergiftungen und Methämoglobinvergiftungen, welche z.B. durch die Zugabe von Lokalanästhetika oder bei vorliegendem Methämoglobinreduktase-Mangel entstehen.
- Bei Patienten mit arteriellem Katheter, Hypotonie, starken Gefäßverengungen, Blutarmut oder Unterkühlungen kann es zu Messversagen kommen.
- Schützen Sie das Pulsoximeter vor Staub, Erschütterungen, Nässe, extremen Temperaturen und explosiven Stoffen.

6. Gerätebeschreibung

Gerät



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 accessible to other users and observe the information they contain.

With kind regards,
Your Beurer team

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 (SpO₂) of haemoglobin, 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 Beurer 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 generally 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

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

	WARNING Warning instruction indicating a risk of injury or damage to health		Manufacturer
	IMPORTANT Safety note regarding potential for damage to the device/accessories		Application part, type BF
	Note Note on important information		Do not dispose of batteries containing hazardous substances with household waste.
	Observe the instructions for use		CE labelling This product satisfies the requirements of the applicable European and national directives.
%SpO₂	Arterial oxygen saturation of haemoglobin (in percent)		Serial number
PR bpm	Pulse rate (beats per minute)		Alarm suppression
	Permissible storage temperature and humidity		Device protected against foreign objects ≥ 12.5 mm and against falling drops of water
	Permissible operating temperature and humidity		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.

WARNING

- 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 customer 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.
- Do NOT use the pulse oximeter
 - if you are allergic to rubber products.
 - if the device or the finger you are using is damp.
 - on small children or babies.
 - during an MRI or CT scan.
 - while transporting a patient other than within a medical establishment.
 - whilst taking a blood pressure measurement on the same arm using a cuff.
 - on fingers that have nail varnish on, are dirty or have a plaster or other dressing on them.
 - on large fingers that do not fit into the device easily (fingertip: width approx. > 20 mm, thickness approx. >15 mm).
 - on fingers with anatomical changes, oedemas, scars or burns.
 - on fingers that are too small, as with small children for example (width approx. < 10 mm, thickness < 5 mm).
 - on patients who are not steady at the site of application (e.g. trembling).
 - 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 approval.
- 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 reliable diagnostics for the pulse.

- 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 element in the housing.
- If the person moves while the measurement is being taken. Keep your hand, finger and body steady during the measurement.
- For people with cardiac arrhythmia, the oxygen saturation level (SpO₂) 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 oximeter 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 and methaemoglobin poisoning, which can occur for example from the administration of local anaesthetics or from an existing methaemoglobin reductase deficiency.
- The measurement may be falsified in patients with an arterial catheter, hypotension, severe vascular constriction, anaemia or hypothermia.
- Protect the pulse oximeter from dust, shocks, moisture, extreme temperatures and explosive materials.

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

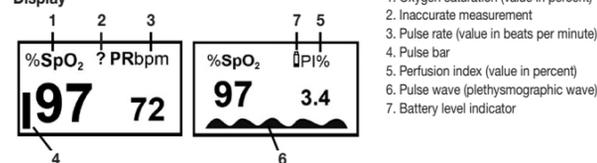
- There must not be any nail varnish, artificial nails or other cosmetics on the finger to be measured.
- Ensure that the finger nail on the finger to be measured is short enough that the fingertip covers the sensor element in the housing.
- If the person moves while the measurement is being taken. Keep your hand, finger and body steady during the measurement.
- For people with cardiac arrhythmia, the oxygen saturation level (SpO₂) 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 oximeter 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 and methaemoglobin poisoning, which can occur for example from the administration of local anaesthetics or from an existing methaemoglobin reductase deficiency.
- The measurement may be falsified in patients with an arterial catheter, hypotension, severe vascular constriction, anaemia or hypothermia.
- Protect the pulse oximeter from dust, shocks, moisture, extreme temperatures and explosive materials.

6. Unit description

Device



Display

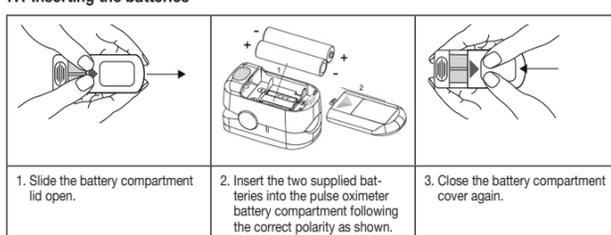


Display formats (7 different formats)



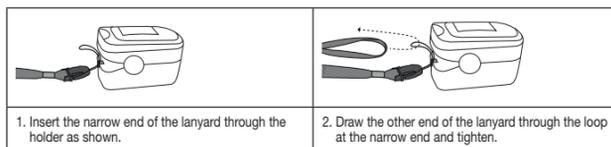
7. Initial use

7.1 Inserting the batteries

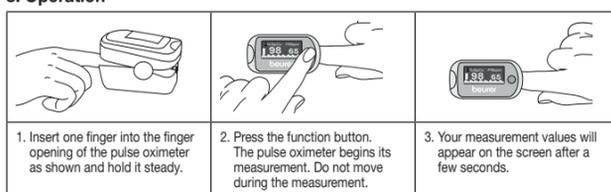


7.2 Attaching the lanyard

To transport the pulse oximeter more easily (e.g. whilst on the move) you can attach a lanyard to the device.



8. Operation



Note

- 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. 8 seconds.
- 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

SpO ₂ (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 Respiratory Failure. Update 2017; Pneumologie 2017; 71: 722/95"

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

Altitude	Expected SpO ₂ 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 1995; 1-37.

10. Maintenance/cleaning

IMPORTANT:

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

12. Disposal

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 displayed	The measured SpO ₂ is too low (<70%)	Do the measurement again. If the problem occurs repeatedly and the device is functioning properly, seek medical advice as a matter of urgency
The pulse oximeter is displaying measurement interruptions or high measurement value jumps	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
	Insufficient circulation in the measurement finger	Observe the warnings and safety notes in section 5
	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
Pulse oximeter will not switch on.	Finger, hand or body is moving	Keep your finger, hand and body still during the measurement.
	Batteries are flat	Replace the batteries
	The batteries have not been inserted correctly	Reinsert the batteries
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.
	The pulse oximeter is faulty.	Contact the retailer or Customer Services
'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 retailer or Customer Services

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

14. Technical data

Model no.	PO 40
Measurement method	Non-invasive measurement of arterial oxygen saturation of haemoglobin, pulse rate and perfusion index in finger.
Measurement range	SpO ₂ (oxygen saturation): 70 - 100%, pulse: 30 - 250 beats/minute PI: 0.3 - 20 %
Accuracy	SpO ₂ (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 SpO ₂	Red light (wave length 660 nm); infra-red (wave length 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, ≤93 % 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

The serial number is located on the device or in the battery compartment.

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 address indicated.
 • This 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

WARNING

- The device is suitable for use in all environments listed in these instructions for use, including domestic environments.
- 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 they are working properly.
- 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 device.
- Failure to comply with the above can impair the performance of the device.

15. Warranty/service

Beurer GmbH, Söflinger 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 provisions, Beurer shall carry out a repair or a replacement delivery free of charge, in accordance with these warranty conditions.

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 what documentation is required.

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

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 opened, 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 customer;
 - 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 from product liability or other compulsory statutory liability provisions).

Repairs or an exchange in full do not extend the warranty period under any circumstances.

Subject to errors and changes