EASYPIX

PULSE OXIMETER PO2



USER MANUAL

You can also find these instructions online under the following link.

FR : Un manuel dans votre langue est disponible sur Internet:
IT: Il manuale nella sua lingua può essere trovato su Internet:
ES: Puede encontrar un manual en su idioma en Internet:
PT: Um manual em seu idioma pode ser encontrado na Internet:
PL: Instrukcję w swoim języku możesz znaleźć na stronie:
SWE: En handbok på ditt språk finns på Internet:
NL: Een handleiding in uw taal vindt u op internet:

www.easypix.info/download-manuals/download/pulseoximeter-po2/

Product introduction

A Pulse Oximeter is a common device used to check oxygen saturation (SpO^2) and pulse rate.
It is a compact, reliable and durable physiological monitoring device featuring an OLED display and powered by batteries (not included).

Intended use

The Pulse Oximeter is reusable device and is intended for spot checking the pulse oxygen saturation and pulse rate of adults.
It should not be used for continuous monitoring – this should only be done under the guidance of your doctor.

Restrictions

⚠WARNING

Use of the device is for adults only.
Please do not use the device for children, infants and neonatal. **The product is not suitable for children under 3 years because of choking hazard.**

Safety instructions

The person using the Pulse Oximeter must have read the instructions for use carefully.
This product should only be used to give an indicative or reference reading. It should not be used to determine a diagnosis without consultation with your doctor. Longer term or ongoing use should only be under the guidance of your doctor.
If you experience any discomfort in use, please stop immediately and seek medical help.
When using the Pulse Oximeter the user should pay attention to, and guarantee safety of the patient being measured.
The Pulse Oximeter does not feature an alarm function. It should not be used for continuous monitoring for an extended period.
Damaged skin tissue can not be measured.

Do not use the device if it has been damaged in any way.
Do not use the device in any way other than that described in this manual.

⚠WARNING

Do not to use the Pulse Oximeter during MRI (magnetic resonance imaging) scanning or CT (Computed Tomography) environment as the induced current could potentially cause burns.

The device should not be modified, repaired or serviced in any way by the end user.

Do not use the Pulse Oximeter in the presence of flammable anesthetics, explosive substances, vapors or liquids.

Ensure the device is always clean and free from dirt before use.
Before cleaning the device, ensure it is turned off.
Do not use high pressure or high temperature to disinfect or clean the device. Never use cleaning agents/disinfectants other than those recommended.
The device is a factory sealed unit. Keep its surface dry and clean, and prevent contact with liquids.
The Pulse Oximeter is precision device. Avoid pressure, knocks, strong vibration or other mechanical damage.
Please store safely when not in use.
For disposal of Pulse Oximeter and accessories, follow local regulations regarding disposal of such a device and accessories. Do not dispose of randomly.

Use AAA alkaline batteries. Do not use carbon or poor quality batteries. Remove the batteries if the product will not be used for an extended period of time.

Avoid exposure to static electricity before using the Pulse Oximeter.
When in use, keep the device away from radio receivers.
To avoid enhanced electromagnetic radiation or reduce anti-electromagnetic interference performance, only use the device as configured.
Portable and mobile radio frequency communication equipment can affect the normal use of the pulse oximeter.

Storage environment

The Pulse Oximeter should not be close to or stored with other equipment.
Always store the device and small parts such as batteries out of the reach of children.
Always ensure suitable supervision of patients or others where the device is used on a lanyard.

Box contents

Pulse Oximeter, Lanyard, User manual EN/DE

Technical data

- OLED display
- SpO^2: Measurement range: 70-100%
  Accuracy: ±2% (70%-99%)
- Pulse rate:
  Measurement range: 30-240bpm
  Accuracy: ±2bpm
- Working voltage: DC3V
- Battery type: 2x 1.5V AAA alkaline batteries are required (not included)
- Power consumption: < 30mA
- Automatic shutdown after 10 seconds
- Use environment: 5°-40°C
  Storage environment: -10°-40°C
  Ambient humidity: 15%-80%
  Atmospheric pressure: 70kPa-106kPa
- Size: 58 x 32 x 34 mm
- Weight: 50g (with two AAA batteries)

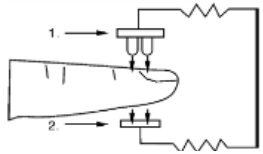
Description of the product



POWER / FUNCTION BUTTON

Function description

The Pulse Oximeter is used to measure arterial oxygen saturation (SpO^2) and the pulse rate. Oxygen saturation indicates the percentage of haemoglobin in the arterial blood that is loaded with oxygen.
The Pulse Oximeter uses two light beams of different wavelengths for measurement. These light beams strike the inserted finger inside the housing and are put in relation to each other during measurement. The arterial oxygen saturation is then calculated and displayed on the Pulse Oximeter.



1. Infrared Light Emitting 2. Infrared Light receiver

Measuring steps

Remove the battery compartment cover and insert the batteries as shown in **Figures 1**.
Securely re-fit the battery compartment cover.
Squeeze one end of the device to open it and place an index finger inside. Allow the device to gently close on the finger as shown in **Figure 2.** (Index, middle or ring fingers can be used for a reading)
Press the power / function button on the front panel to switch on the device. Keep the finger and device still with as little movement as possible and allow the device to take a measurement.

Ensure the finger is inserted far enough into the sensor so that the fingernail is just opposite to the light emitted from the sensor.



Figure 1 **Figure 2**

NOTICE

Do not perform SpO^2 monitoring and NIBP (Non-invasive blood pressure) measurements on the same arm simultaneously. Obstruction of blood flow during NIBP measurements may adversely affect the reading of the SpO^2 value.
Do not use the Pulse Oximeter to measure patients whose pulse rate is lower than 30bpm, as this may cause incorrect results.
Ensure there is no contamination and/or scar on the tested finger as the result indicated may be incorrect due to the signal received by the sensor being affected.
When used on various patients, the product is prone to cross contamination, which should be prevented and controlled by the user. Disinfection is recommended before using the product on other patients.
The highest temperature threshold of the sensor contacts with a patient's skin is 41°C.
Repeat use may require the use of different fingers to obtain a measurement.

Factors affecting measurement accuracy

Incorrect placement of the finger may affect the accuracy of the measurement.
The measurements also depend on absorption of a special wavelength ray by oxidized hemoglobin and deoxyhemoglobin. Concentration of nonfunctional hemoglobin may affect the accuracy of the measurement. Always consult a doctor if in doubt.
Shock, anemia, hypothermia and the application of vasoconstriction drug may decrease arterial blood flow to an unmeasurable level.
Pigment, or deep color (for example: nail polish, artificial nails, dye or pigmented cream) may cause inaccurate measurements.

Rotate the display

To rotate the display for convenient reading, when the result has been displayed on the screen, short press the "POWER/FUNCTION" button once.

Auto switch off

The product will switch off automatically after 10 seconds of no signal being detected.

Lanyard placement

1. Thread the thinner end of the lanyard through the hole.
2. Thread the thicker end of the lace through the threaded end before pulling it tightly.

Cleaning and disinfection

Clean the product with cotton or damp soft cloth.
After cleaning, wipe dry and allow to full air dry.

Disinfection
The recommended disinfectants include: ethanol 70%, isopropanol 70%, glutaraldehyde (2%) solution disinfectants.
Clean the product as instructed above.
Disinfect the product with cotton or soft cloth moistened with one of the recommended disinfectants.
After disinfection, be sure to wipe off the disinfectant left on the product with a soft cloth moistened with water.
Allow the product to air dry.

⚠WARNING

Never immerse the device in liquid.
We recommend cleaning and disinfecting the product when necessary or when used with different patients.
Never use cleaning agents/disinfectants other than those recommended.
Never permit high-pressure and high-temperature disinfection of the device.
Always switch off the device and remove the batteries before cleaning or disinfecting.

Disposal



Dispose of packaging

For disposal, separate packaging into different types. Cardboard and board must be disposed of as paper and foil must be recycled.



Disposal of Waste Electrical and Electronic Equipment and/or Battery by users in private households in the European Union.

This symbol on the product or on the packaging indicates that this cannot be disposed of as a household waste. You must dispose of your waste equipment and/or battery by handling it over to the applicable take-back scheme for the recycling of electrical and electronic equipment and/or battery. For more information about recycling of this equipment and/or battery, please contact your city office, the shop where you purchased the equipment or your household waste disposal service. The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.

Declaration of conformity

For the product **Pulse Oximeter PO2**
We hereby confirm that it meets the basic requirements laid down in Council Directive (1999/5/EC).

This declaration is based on the full compliance of that product with the following European standards:
EN 55014-1:2017
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 55014-2:2015

This explanation is given for the manufacturer / importer
easypix GmbH
Em Parkveedel 11
50733 Köln, Germany

CE

The EC Declaration of Conformity can be downloaded here:
http://www.easypix.info/download/pdf/doc_pulseoximeter_po2.pdf

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