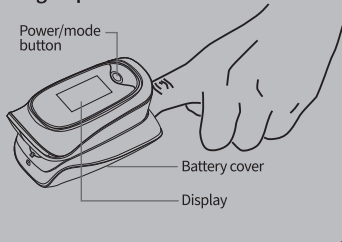


User Manual

OxiPro OX2 Fingertip Pulse Oximeter



OLED

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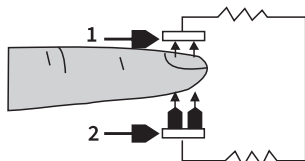
This Fingertip Pulse Oximeter is a non-invasive medical device intended to quickly and precisely measure the oxygen saturation in arterial haemoglobin (SpO2) and Pulse Rate (PR). For use in hospital, clinical and home environments.

2 Operating principle

Oximeters use a series of standardised principles to establish SpO2 and Pulse Rate. By using Lambert Beer's Law of Spectrum Absorption Characteristics of Reductive Haemoglobin and Oxyhaemoglobin (HbO2) in visible and near-infrared light wavelengths (660nm and 940nm respectively) in combination with Photoelectric Oxyhaemoglobin Inspection Technology with Capacity Pulse Scanning and Recording Technology, the two different wavelengths of light can be focused onto a human finger nail through a clip-on finger sensor (2 in the diagram below). The signal is measured using a photosensitive element (1 in the diagram below) and displayed as human readable data on a screen after processing through electronic circuits and a microprocessor.

Diagram showing the Principle of Operation

1. Infrared-ray receiving tube (photosensitive element)
2. Visible and Infrared-ray transmitting tube



3 Operating Instructions

Installing the batteries and set up

1. Remove the battery compartment cover.
2. Insert two 1.5v AAA alkaline batteries (included) into the battery compartment. Ensure correct alignment of the polarity (positive and negative ends) of the batteries with the markings on the Oximeter. Incorrect insertion may cause damage to the instrument.

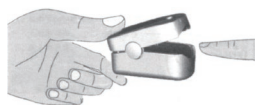
Do NOT use rechargeable batteries as the output voltage is 1.3v per battery, not the required 1.5v. Only use good quality, branded Alkaline AAA batteries and never mix old batteries with new batteries.

3. Close the battery compartment cover.
4. You may wish to check the pre-set alarm values meet your requirements and adjust if necessary, instructions are given in Section 6 of this manual.

Performing a measurement

Remove nail polish or false nails before use as these will affect the accuracy of the reading.

1. Sit or lie down, remaining still until your body is relaxed.
2. Taking note of the picture below, squeeze the clamp to separate the two halves of the Oximeter.
3. Insert your index or middle finger into the Oximeter as far as it will go, with the finger nail facing the side with the screen.
4. Press the power button on the front of the Oximeter to turn it on.
5. After a few seconds your measurements will be displayed on screen. **Please note** it may take up to 60 seconds for the readings to stabilise, readings should be taken when the blood oxygen value is stable for 5 seconds or longer. If the Oximeter is powered on but no measurements are shown please see the Trouble Shooting section 12 of this user manual.
6. If you wish to rotate the orientation of the values displayed on screen see Section 5 of this user manual.
7. To turn off the Oximeter, simply remove it from your finger and it will turn off automatically after 8 seconds.
8. Please replace the batteries when the battery symbol on screen shows low.



When inserting your finger, the finger nail surface must face the surface closest to the display, away from the light source.

To maintain good hygiene please use medical alcohol to clean the rubber before each test and clean the tested finger with medical alcohol before and after the test. The rubber inside the Oximeter is of medical standard which is non-toxic and anti-allergenic.

1 General Description

Haemoglobin saturation, often referred to as blood oxygen saturation, is the percentage between the capacity of oxyhaemoglobin (HbO2) that compounded with oxygen and that of all combinative haemoglobin (Hb) in blood. In other words, it is the saturation of oxyhaemoglobin in blood. It is a very important physiological parameter for Respiratory and Circulation Systems. Many respiratory diseases could reduce haemoglobin saturation in human blood. Moreover, factors such as Automatic Organic Regulation Malfunction caused by anaesthesia or trauma from a major operation or examination can also cause problems in oxygen supply, which might reduce human haemoglobin saturation. As a result, symptoms such as migraine, vomiting and asthenia might appear in patients. Hence, it is very important to quickly know the haemoglobin saturation of patients in clinical environments.

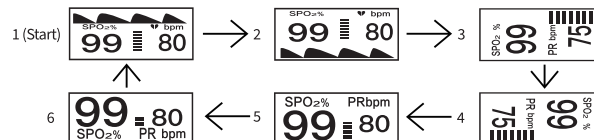
The fingertip pulse Oximeter is non-invasive, features low power consumption, simple operation and portability. It is only necessary for the patient to put one finger into the photoelectric sensor for diagnosis and the display will directly show the measured value of haemoglobin saturation. The precision and repeatability of the Oximeter has been proven in clinical trials.

4 Features

- Displays SpO2, Pulse Rate (PR) and Perfusion Index (PI) (PI not on the OxiPro 1)
- Two-colour OLED display with six different display modes
- Low-power consumption; more than six hours continual operation with two alkaline AAA batteries
- Low voltage indicator
- If a finger is not inserted, the product will enter standby mode after 8 seconds
- Small, light and portable

5 Display modes (Rotating the Display)

You can change the orientation of the values displayed on screen (display mode). When powered up, click the power button once to change to the next display screen (please note: if you press and hold the power button instead of clicking it you will enter the menu system shown in Section 6 below). Repeat the process to rotate between the six options shown below.



6 Setting options and alerts

1. Press and hold the power button for >3 seconds until you enter the parameter setup menu, shown in the Menu 1 diagram below. Clicking the power button moves the "*" between the menu options, pressing and holding the power button selects the options to adjust.
2. To change the alarm settings, press and hold the power button for >3 seconds when the "*" symbol is shown next to "Alm Setup" as shown in the Menu 1 diagram below. This will enter Menu 2, shown below. Click the power button until the "*" symbol is next to the option you wish to change. To adjust the option press and hold the power button and the numbers will change.
3. To exit the menu and confirm your changes, click the power button until the "*" is next to "Exit", then press and hold the power button for >3 seconds to exit the menu.

Video instructions can be found in the support section of our website: www.oxipro.io

Settings		
Alm Setup	*	
Alm	off	
Beep	off	
Demo	off	
Restore	OK	
Brightness	3	
Exit		

Menu 1

Settings		
Sounds Setup	*	
Spo2 Alm Hi	100	
Spo2 Alm Lo	85	
PR Alm Hi	130	
PR Alm Lo	50	
+/-	+	
Exit		

Menu 2

Restoring factory default settings

Enter Menu 1 following the instructions above. Click the power button until "Restore" is shown on screen. Press and hold the power button for >3 seconds. All settings will be set to factory defaults.

7 Technical Parameters

1. Display Type: OLED display
2. SpO2: Measurement range: 70% ~ 99%
Accuracy: 80% ~ 99% ± 2% (Including 80%);
70% ~ 79% ± 3%;
Below 70% no requirement;
3. PR: Measurement range: 30BPM ~ 240BPM
Accuracy: ±1BPM or ±1% (whichever the greater)
4. Parameters of LED probe

	Wavelength	Radiation Power
RED	660±2nm	1.8mW
IR	905±10nm	2.0mW
5. PI index measurement scope: 0-20
6. Power: 2 x AAA 1.5V alkaline batteries
7. Automatic standby: The product shuts off automatically within 8 seconds of the finger being removed.
8. Dimension: 58mm×36mm×33mm
9. Operation environment:
Temperature: 5 °C ~ 40 °C
Humidity: 15% ~ 80%
Atmospheric pressure: 86kPa ~ 106kPa
- Transport, storage environment:
Temperature: -10 °C ~ 40 °C
Humidity: ≤95%
Atmospheric pressure: 50kPa ~ 106kPa, non-corrosive gas and well-ventilated environment.
10. Declaration: This product complies with IEC60601-1-2 EMC standard.

This parameter can be especially useful to clinicians.

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- Scope of application / Intended use**

Contraindication: Not found

1. Images in this user manual may differ slightly from the actual instruments.
2. Technical parameters and appearance may change without prior warning.

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-   Please follow local guidance on the recycling of the product, packaging, accessories and batteries. **The Oximeter and batteries require disposal as Electrical Waste and must not be disposed of in normal recycling or waste.**



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- ## 11 Product Accessories

1. One lanyard chord
2. One user manual

The Fingertip Pulse Oximeter is designed to be used in specified electromagnetic environments. Users of the Fingertip Pulse Oximeter must use it in the following environments.		
Radiation Test	Compliance	Electromagnetic environment-guidance
RF interference CISPR 11	Group 1	RF signal of Fingertip Pulse Oximeter is simply created by its internal function. Therefore, its RF interference is very low and is not likely to cause any interference to nearby electronic equipment.
RF interference CISPR 11	Class B	The Fingertip Pulse Oximeter applies to all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.

	BF type application part	IP22	IP rating		Serial number		Lot number
	Electrical waste disposal required		Humidity range		Date of manufacture		Temperature range
	Consult manual		Keep dry		Manufacturer		Avoid sunlight
	Caution		Product certification		Standby		Store this way up
	European Union Representative						

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13 Statement

- ## 14 After-sales service

- Please read user manual before using the instrument.
- Follow the requirements listed in this user manual with regard to operation, storage, maintenance and environmental requirements.

Please see section 15 of this user manual.

As standard your Oximeter comes with a one-year limited warranty from the time of purchase. To qualify for warranty repair or replacement you must provide a valid proof of purchase from an authorised retailer with any warranty claim.

- Fault caused by human factors including but not limited to accidental damage beyond reasonable wear and tear;
- Use of the product outside the specified environmental requirements.
- Due to disassembly or repair attempts made by those other than the authorised service centre.
- Products beyond the warranty period of one year from purchase.
- Products bought second hand.
- Products not bought from an authorised retailer.

If you have any problems, please contact us using the details below.

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Opening hours: Mon-Fri 0900-1700,
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