

Dr. Odin®

Instruction Manual

Pulse Oximeter

OPO103



- If the performance is inconsistent with the description or changes, stop using immediately and contact the manufacturer.
- Measuring function should not be used to evaluate oximeter accuracy.
- The effects of degraded sensors and electrodes, or loosened electrodes, that can degrade performance or cause other problems.
- Please keep the oximeter out of reach of children, pets, etc., so as to prevent falling, biting and affecting the product performance.
- No modification of this equipment is allowed.
- Oximeter should be avoided in places with poor ventilation and high dust and lint content.
- The products should be avoided direct sunlight and strong light sources.
- Oximeter cannot be serviced and maintained during use.
- The Fingertip Pulse Oximeter can be maintained and calibrated once every two years, and the basic safety and basic performance of the Fingertip Pulse Oximeter have been guaranteed.

Display and What It Shows

- SpO2 (% oxygen in blood)

Thank you for choosing Dr. Odin's Fingertip Pulse Oximeter. This compact, easy-to-use device helps you quickly check your blood oxygen levels (SpO2) and pulse rate (PR) from the comfort of your home—or on the go.

What It Does

This pulse oximeter is a non-invasive tool designed to monitor:

- **Oxygen saturation (SpO2)** in your blood
- **Pulse rate (PR)**

It's lightweight, portable, and gives reliable readings in seconds.

Why Blood Oxygen Matters

Oxygen saturation tells you how much oxygen your red blood cells are carrying. Keeping an eye on this can help detect issues related to:

- Respiratory problems
- Circulation
- Anaesthesia or post-surgery recovery

Who Can Use It?

Anyone who needs to check their blood oxygen—be it for personal health, fitness, or medical reasons. It suitable for:

- Home users
- Medical centres
- Schools
- Clinics

- PR (Pulse rate in BPM)
- Pulse bar graph
- Battery level
- Perfusion index (PI%) – shows blood flow strength
- Respiratory rate (optional) You can switch between display modes by pressing the button.

Using the Oximeter – Step-by-Step

- Insert 2 AAA batteries into the back compartment.
- Slide your finger fully into the rubber opening (nail facing upward).
- Press the power button.
- Stay still. Avoid moving your hand or body while measuring.
- Wait a few seconds. Your SpO2 and pulse rate will appear on the screen.
- The screen can rotate—press the button to change the display direction.
- No signal? The device will automatically turn off in 8 seconds.

Tip: Clean the rubber sensor with alcohol before and after use.

Installing Batteries

- Match the + and – symbols and insert 2 AAA batteries.
- Close the cover by sliding it back into place.

Important: Incorrect battery placement may damage the device.

How It Works (The Science, Simplified)

The oximeter uses Photoelectric Oxyhaemoglobin Detection Technology along with Pulse Scanning and Recording Technology. It shines two types of light—red (660nm) and infrared (940nm)—through your fingertip. Based on how your blood absorbs this light, the device calculates your oxygen saturation (SpO2) and pulse rate. A sensor picks up the signal, and the built-in processor displays your results in real time.

Diagram of Operation Principle



- Red-ray and Infrared-ray receiving diode
- Red-ray and Infrared-ray transmitting diode

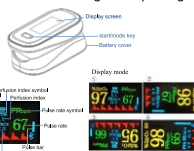
Precautions for use

- Do not use the Fingertip Pulse Oximeter together with MRI or CT equipment.
- Explosion hazard: Do not use the Fingertip Pulse Oximeter in an explosive atmosphere.
- The Fingertip Pulse Oximeter is intended only as an adjunct in patient assessment. Doctors should make diagnosis in

Adding the Lanyard

- Thread the thinner end of the lanyard through the slot.
- Loop the thicker end through and pull tight.

Front Panel



Key function description: in standby mode, start the key instrument into the working state, push down this button under working state, can change the display mode.

Note

The machine profile picture only for your reference use, specific in kind prevail. The blood perfusion index (PI%), respiratory rate (RR), only show status values and are not used for clinical reference.

Custom Settings (Advanced Use)

Turn on the device, then press and hold the start button for more than 3 seconds to enter the settings menu.

- In the menu, you'll see a "M" symbol next to 'Alm' (Alarm). Quick press (<1 second) the button to scroll through different setting

conjunction with clinical manifestation and symptoms.

- Check the Fingertip Pulse Oximeter sensor application site frequently to make sure that the circulation and skin integrity of patient are under good condition.
- The sensor of the oximeter is not suitable for contacting the adhesive tape, which may lead to the error of measurement data or mistaking that there are blisters on the tested skin.
- The Fingertip Pulse Oximeter has no SpO2 alarm, it is not for continuous monitoring.
- When used for a long time, it will produce discomfort or tenderness, especially for patients with micro circulation disorders. Please change the test sites periodically according to different situations of patients. The test site must be changed and the skin integrity and circulation condition of the patient must be checked at least every 2 hours, and the correct adjustment must be made.
- Inaccurate measurements may be caused by autoclaving, ethylene oxide sterilizing, or immersing the sensors in liquid.
- Significant levels of dysfunctional hemoglobin (such as carboxyl-hemoglobin or methemoglobin) may cause inaccurate

options.

- Press and hold >3 seconds) to:

- Turn sound alerts or beeps on/off
- Adjust SpO2 or pulse rate alarm limits using "+" or "-"
- Exit the settings menu
- To reset to factory settings, highlight 'Restore' and press and hold the button for 3 seconds.
- Restore' and press and hold the button for 3 seconds.

Things to Keep in Mind

- Avoid using near MRI or CT scanners.
 - Don't use in explosive environments.
 - This is a health tracking tool—not a diagnostic or emergency device.
 - Check the site on your finger every 2 hours during prolonged use.
 - Bright nail polish or artificial nails may affect accuracy.
 - Factors like poor circulation, low blood pressure, or movement can cause erratic readings.
 - If you notice inconsistent performance, stop using the device and reach out to us.
- Detailed descriptions of product functions:
- Display Type: TFT display
 - SpO2: Measurement range: 70%~100% Accuracy: 80%~100%:±2% (Including 80%); 70%~79%: ±3% ;
 - Below 70% no requirement; Resolution: 1%
 - PR: Measurement range: 30BPM~254BPM

reading.

- Intravascular dyes such as indocyanine green or methylene blue may cause inaccurate reading.
- SpO2 measurements may be adversely affected in the presence of high ambient light. Please shield the sensor area (with a surgical towel or direct sunlight, for example) if it is necessary.
- Unexpected action may cause inaccurate reading.
- Medical signal with high frequency or interference caused by defibrillator may lead to inaccurate reading.
- Venous pulsations may cause inaccurate reading.
- It may cause inaccurate reading when the positions of sensor and blood pressure cuff are on the same arterial catheter or intravascular line.
- Hypotension, severe vasoconstriction, severe anemia, or hypothermia may cause inaccurate reading.
- It may cause inaccurate reading by giving use of cardiotoxic to patient after his cardiac arrest or when he is in quiver.
- Bright nail or painted nail may cause inaccurate SpO2 reading.
- Do not use this product if you are allergic to ABS, black silicone pad and other materials.

Accuracy: ≤100BPM, ±1BPM
>100BPM, ±2BPM

- Parameters of LED probe wavelength radiation power RED Approx. 660nm1.8mWIRApprox. 940nm2.0mW

Specifications :

- Display Type: TFT display
- SpO2: Measurement range: 70%~100% Accuracy: 80%~100%:±2% (Including 80%); 70%~79%: ±3% ;
- Below 70% no requirement
- Resolution: 1%
- PR: Measurement range: 30BPM~254BPM Accuracy: ≤100BPM, ±1BPM
- PI index: measurement scope: 0%~20% (optional)
- Power: two AAA 1.5V batteries
- Automatic standby: the product shuts off by itself when no finger is in the product about sec.
- Automatic start up: The device has the function of SS automatic signal detection. When the finger is inserted, it will start up automatically.(optional)
- Gravity sensing function: finger movement, the screen display will change with the gravity sensing changes (optional)
- Dimension: about 59*32*5.29.3mm
- Operation environment:
 - Temperature: 5 °C ~ 40 °C
 - Humidity: 15%RH ~ 80%RH, no condensing

- Atmospheric pressure: 70kPa ~ 106kPa
- **Transport, storage environment:**
- Temperature: -10 °C ~ 40 °C
- Humidity: 10%RH~ 95%RH,no condensing
- Atmospheric pressure: 70kPa ~ 106kPa, non - corrosive gas and well-ventilated environment.

- Atmospheric pressure: 70kPa ~ 106kPa
- **Transport, storage environment:**
- Temperature: -10 °C ~ 40 °C
- Humidity: 10%RH~ 95%RH,no condensing
- Atmospheric pressure: 70kPa ~ 106kPa, non - corrosive gas and well-ventilated environment.

Maintenance and Preservation

1. Replace the batteries timely when the

- low battery indicator flashes
- 2. Clean the surface of fingertip pulse oximeter before use.
- 3. Remove the batteries when the oximeter is not likely to be used for some time when leakage from batteries would result in an unacceptable risk.
- 4. It would be better to preserve the product in -10~40°C (14-104°F) and

humidity is 10%-95%.

- It is recommended that the product should be kept dry anytime. A wet ambience might affect its lifetime and even damage the product.
- Cleaning frequency**
If the oximeter is dirty when used at home, it is recommended to clean the enclosure and silicone pad after each use. If the oximeter is not dirty, simply clean the black silicone pad before and after each use.
When used in a medical institutions, clean it after each use.
- Cleaning method**
When the oximeter is used at home, wipe and disinfect with 75% alcohol, then dry naturally or clean the product with dry cloth. Clean at least twice a week. When using in medical institutions, clean the tested finger with 75% alcohol before use. After each measurement, wipe and disinfect the contact part between black silicone and enclosure with 75% alcohol.
- The oximeter can display functional arterial oxygen saturation and pulse rate after calibration.

Important Information About Using Your Pulse

Oximeter Around Other Electronic Devices

To ensure your Fingertip Pulse Oximeter works properly and safely, please keep the following points in mind:

1. Electromagnetic Interference:

This oximeter is designed to work in specific environments. Using it near strong electromagnetic fields (like near certain machines or devices) may cause it to function abnormally. Please follow the guidelines in the table below to ensure accurate readings.

2. Where It Can Be Used:

This oximeter is suitable for use both in medical settings and at home. It's a compact tabletop device made for personal or clinical use.

3. Keep Distance from Wireless Devices:

Do not use portable wireless devices (like smart phones or walkie-talkies) or their antennas closer than 30 cm (12 inches) to the oximeter. Doing so could affect how well the device works.

4. Avoid Stacking Devices:

Try not to place this oximeter directly next to or on top of other electronic equipment. This can interfere with its performance. If you must use them together, carefully check that both devices are functioning as expected.

5. Only Use Recommended Accessories:

Always use the accessories, sensors, and cables provided or recommended by the

manufacturer. Using unapproved parts may cause the oximeter to emit unwanted signals or become more sensitive to interference from other devices.

Possible Problems and Resolutions

Problem	Possible reason	Solution
SpO2 or PR can not be shown normally	1. Finger is not plugged correctly 2. Patient's Oxy hemoglobin value is too low to be measured SpO2 or PR can not be shown normally	1. Retry by plugging the finger 2. Try more times. If you can make sure there is no problem in the product, please go to hospital timely for exact diagnosis
SpO2 or PR is shown unsteady	1. The finger might not be plugged deep enough 2. Finger is trembling or the patient is on movement status	1. Retry by plugging the finger 2. Please remain at rest
The Oximeter can not be turned on	1. Inadequate power or power off 2. Batteries might be installed incorrectly 3. The Oximeter might be damaged	1. Please replace the batteries 2. Please reinstall the batteries 3. Please contact with local customer service centre

Indication lamps are suddenly off	1. The product automatically shuts off when no signal is detected in 8 sec. 2. Inadequate power	1. Normal 2. Replace the batteries
Problem	Possible Cause	What You Can Do
SpO2 or Pulse Rate not showing	- Finger not placed properly- Oxygen level is too low to detect	- Reinsert your finger correctly and try again- If still not working and device seems fine, seek medical help promptly
Readings are unstable	- Finger not fully inserted- Movement during reading	- Reinsert your finger properly- Stay till while taking the reading
Device won't turn on	- Low or dead batteries- Batteries inserted incorrectly- Device may be damaged	- Replace with new batteries- Check and reinsert the batteries correctly- Contact customer support if issue persists
Display turns off suddenly	- Device auto-shuts off after 8 seconds of no signal- Low battery	- This is normal behavior- If needed, replace the batteries

WARRANTY CARD

Model No.:..... Lot No.:.....
 Invoice No.:..... Date of Purchase.....
 Purchased By:..... Contact No.:.....
 Address.....
 Dealer's Name.....
 Dealer's Sign & Stamp



* Terms & Conditions apply

Warranty is void if:

- The device is misused or not maintained per this manual.
- Unauthorized repairs or modifications are made.
- Operated in corrosive or harmful environments.
- The warranty card is not fully completed and presented upon claim.

Symbols

- Medical Device
- Refer Instructions Manual
- No Trash
- Manufactured By
- Lot No.
- Keep Away From Sunlight
- Serial No.
- Do not use If Package damaged
- Warning/Caution
- Must not be exposed in rain or excessive moisture
- Manufacturing Date

Manufactured by:

Passim Lifesciences Ltd.
 Plot No. 45, Ind. Area, Phase-II, Panchkula
 - 134113, Haryana-INDIA
Mfg. Lic. No.: MFG/MD/2022/000633
For any Complaint / Suggestion please contact:
Customer care Number:
 1800 309 3009
 Timing: 9am-7pm, Mon.-Sat.
 Email ID: customercare@frodin.in
 Website: www.drodin.in

Warranty

Passim Lifesciences Ltd. warrants this unit against defects in materials and workmanship for one year from the date of purchase. During the warranty period, any defective parts will be repaired or replaced free of charge, excluding consumable components such as the nasal steamer & facial steamer, which are not covered once used.