

Health and
Personal Care

WG-001 Finger Pulse Oximeter

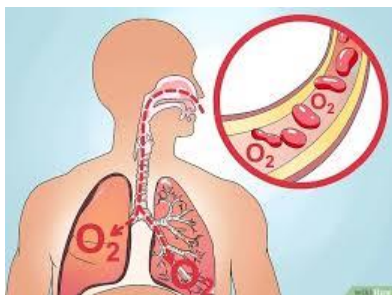


Professional Portable
Finger Pulse Oximeter
with OLED
Instantaneous Reading
for Pulse Rate (PR),
Oxygen Saturation
(SpO2) and PI
Measurements with
Strap

Pulse Oximeters for Healthcare Professionals and Home-Use

Check your oxygen saturation and your pulse





1. Understand the relationship between oxygen and blood.

Oxygen is inhaled through the lungs and then passes into the blood, where it mostly binds to hemoglobin. Hemoglobin is a protein found in red blood cells which, through the blood, transports oxygen to the rest of the body and tissues. In this way, the body receives the oxygen and nutrients it needs to function.



3. Learn how the pulse oximeter works.

The oximeter uses the hemoglobin's light absorption capacity and the natural pulsation of blood flow in the arteries to measure the oxygen level in the body. A device called a probe is equipped with a source and a light detector and a microprocessor, which compares and calculates the differences between an oxygen-rich hemoglobin compared to a deficient one. On one side of the probe is mounted a light source with two different types of light: infrared and red. These two light beams are sent through the body tissues to the light detector on the other side of the probe. The hemoglobin that is more saturated with oxygen absorbs more infrared light, while the oxygen-poor hemoglobin absorbs more red light. The microprocessor inside the probe calculates the differences and converts the information into a digital value. It is this resulting value which is then evaluated to determine the amount of oxygen carried in the blood.



2. Understand the reasons behind the measurement.

Pulse oximetry is put in place to evaluate oxygen saturation in the blood for a variety of reasons. It is often used in surgeries and other procedures involving sedation (such as bronchoscopy). The pulse oximeter can also be used to evaluate whether it is necessary to change the dose of oxygen administered, whether lung drugs are effective and to determine the patient's tolerance for increased physical activity.



Useful and reliable. Our pulse oximeter uses advanced technology to ensure the most consistent and reliable results. The deviation between the measured value under artificial light, internal daylight and darkroom conditions is approximately 1%. SpO2 error and pulse rate are approximately 2%.

Easy to use. Users only need to place the tip of one of their fingers on the photoelectric sensor for diagnosis and a screen will directly display the measured value of the hemoglobin saturation.

Low energy consumption. 2 AAA batteries (not included in the package) can be used continuously for more than 20 hours. In addition, the oximeter turns off automatically when no signal is emitted on the product within 5 seconds.

Professional Portable Finger Pulse Oximeter with OLED Instantaneous Reading for Pulse Rate (PR), Oxygen Saturation (SpO₂) and Perfusion Index (PI) measurements

SPECIFICATIONS

- Display type: two colour OLED display
- SpO₂
Measuring range: 70% ~ 99%
Accuracy: $\pm 2\%$ between 70% ~ 99%,
unspecified ($\leq 70\%$) for SPO₂; Resolution: $\pm 1\%$
- PR Field measurement: 30BPM ~ 240BPM
Accuracy: $\pm 1\text{BPM}$ or $\pm 1\%$
- PI Accuracy: $\pm 1\%$
- Power: two AAA 1.5V alkaline batteries
- Power consumption: under 30mA
- Automatic shutdown: 8 seconds (when none finger is in the product)
- Operating ambient temperature: 5 °C ~ 40 °C
- Ambient storage temperature: -10 °C ~ 40 °C
- Ambient humidity: 15% ~ 80% on operation
- Storage humidity: 10% ~ 80%
- Air pressure: 70 kPa ~ 106kPa
- Dimension: 6.0x3.5x3.5 cm
- Weight: 60gr
- Tested and approved by TÜV



Product Service

To learn more about:



ed-brands.com/wegeek

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