

Fingertip Oximeter



POD-1W


The Scope of Application:

POD-1W Fingertip Pulse Oximeter can monitor Pulse Oxygen Saturation and Pulse Rate through patient's finger. This device is applicable to hospital, home, community medical center, alpine area and it also can be used before and after sports, and so on.

Features:

- Wireless data transmission can communicate with PC, IOS & Android smart phone;
- Bluetooth V2.0 & V4.0 optional;
- Accurately measures SpO₂ value and Pulse Rate value;
- Large bright LCD display of SpO₂, PR and Pulse Bar;
- Innovative 2 directions display;
- Automatic Power Off;
- Low battery voltage indication.



FDA 510(K)  0123

Your health, our concern!

Technical Specifications

A. Display mode: LCD Display

B. Power supply requirement:

2 x LR03 (AAA) alkaline batteries

Supply voltage: 3.0VDC

Operating current: $\leq 40\text{mA}$

C. SpO₂ Measurement

Transducer: dual-wavelength LED

Measurement wavelength: Red light: 663 nm, Infrared light: 890 nm.

Maximal optical output power: less than 1.5mW

Maximum average: Measuring range: 35~99%

Measuring accuracy: Not greater than 3% for SpO₂ range from 70% to 100%

D. Pulse Rate Measurement

Measuring range: 30bpm~240bpm

Accuracy: $\pm 2\text{bpm}$ or $\pm 2\%$ (whichever is greater)

E. Preset alarm limits

SpO₂ alarm: Lower limit: 90%

Pulse Rate alarm: Upper limit: 120bpm Lower limit: 50bpm

F. Update rate: T8 beats moving average for Pulse Rate and SpO₂ readings

G. Environment requirement

Operating Temperature: 5°C ~40°C

Operating Humidity: 30%~80%

Atmospheric pressure: 70kPa~106kPa

H. The performance under low perfusion condition

The accuracy of SpO₂ and PR measurement still meet the precision described above when the modulation amplitude is as low as 0.6%.

I. Resistance to interference of surrounding light:

The difference between the value measured in the condition of indoor natural light and that of darkroom is less than $\pm 1\%$.

J. Resistance to 50Hz /60Hz interference:

SpO₂ and PR are precise which have been tested by SpO₂ simulator from Fluke Biomedical Inc.

K. Dimensions: 66 mm(L)×36 mm(W)× 33 mm(H)

Net Weight: 60g (including batteries)

L. Classification

The type of protection against electric shock: Internally powered equipment.

The degree of protection against electric shock: Type BF applied parts.

The degree of protection against harmful ingress of liquids: Ordinary equipment without protection against ingress of water.

Electro-Magnetic Compatibility:

Group I, Class B

1. Real-time data transmission to PC:

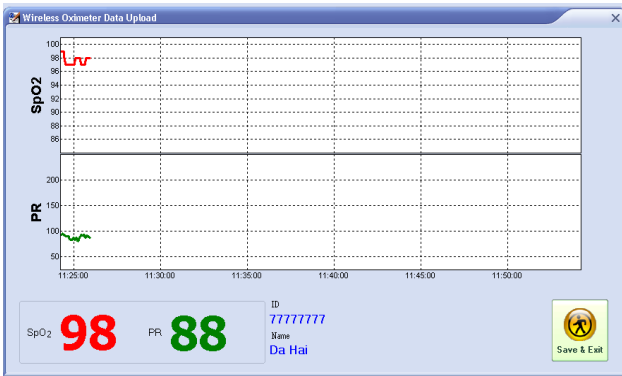


Figure 1 Real-time data transmission screen

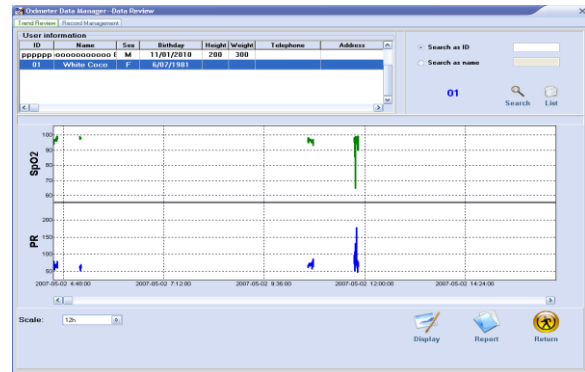


Figure 2 Trend review

2. Real-time data transmission to smart phone (Android system):



Figure 3 Real-time data transmission screen



Figure 4 Trend review

3. Real-time data transmission to smart phone (IOS system, Bluetooth V4.0 only)

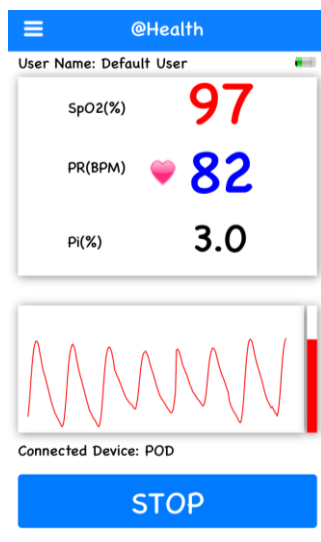


Figure 5 Real-time data transmission screen

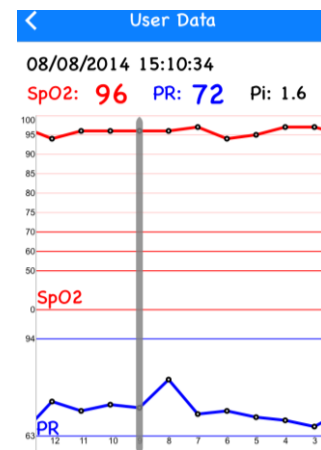


Figure 6 Trend review

Note: Specifications subject to change without prior notice.