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# Oxygen Saturation Simulator


Transmissive Type (OFOLLOW- B)-Left
Reflective Type (SURPASS- A)-Right

## Main Features

- Reflective oxygen saturation simulation is suitable for reflectance- type oxygen sensors. It is currently the only simulator on the market that can accurately adjust the oxygen saturation value and be calibrated.
- The simulated finger is directly connected to the main unit and can be rotated, making probe operation very convenient.
- Electromagnetic compatibility meets the latest version of IEC60601- 1- 2, with radiated emissions meeting Class B requirements.

## Main Functions

1. Simulate oxygen saturation.

2. Simulate pulse rate.

3. Preset patient condition simulation.

4. Test the response time of the device under test.

5. Simulate oxygen saturation and pulse rate under different perfusion levels.

6. Test the performance of the device under test with different interference sources.

7. Select different R- curves.

## Main Parameters

| Parameter | | Specification |
|---|---|---|
| Oxygen Saturation | Measurement range | 35% ~ 100% |
| | Resolution | 1% |
| | Accuracy | When $SpO_2$ range is 70% ~ 100%: ±1% or the larger of ± the accuracy of the DUT; When range is 70% ~ 50%: ±3% or the larger of ± the accuracy of the DUT; Below 50%: undefined. |
| Pulse Rate | Measurement range | 20 bpm ~ 300 bpm |
| | Resolution | 5 bpm |
| | Accuracy | ±1% ±1 bpm |
| Perfusion | Measurement range | 0.000% ~ 20.000% |
| | Resolution | 1.000% ~ 20.000%: 1%;<br>0.100% ~ 0.900%: 0.1%;<br>0.000 ~ 0.075%: 0.025%. |
| Preset Patient Conditions | | 24 groups preset; 8 groups by default at power-on. The number of groups can be adjusted by setting the motion level. |
| Operating Voltage | | Adapter DC 5V; Battery 3.7V rechargeable Li-ion, charge/discharge cycles ≥500 times. |
| Electromagnetic Compatibility | Radiated Emissions (RE) | Class B |
| | Radiated Immunity (RS) | 20 V/m |
| | Electrostatic Discharge (ESD) | Air 8 kV, contact 15 kV (Note: non-direct contact with optical probe) |
| | Other | Complies with YY0505:2012 and IEC60601-1-2:2014 |