

3.15 O2 Score

O2 Score is overall assessment of oxygen condition, which synthesizes the frequency, depth and duration of oxygen shortage overnight. The range is 0-10 (10 is best). It is provided for each record in App.
Example:



3.16 Data of Multiple Devices

In App’s [Profile]->[Select Device], you can select device if you have multiple devices to check data of another device .

4 PC software

PC Software: O2 Insight Pro
Download from:
<https://getwellue.com/pages/pc-software>
Install the software on Windows PC (win 7/8/10) or MacOS (10.15 or above).

- 1) Turn on device, connect the device to PC USB port with the supplied Data Cable (it’s different from universal USB cable)
- 2) Run the PC software, click the Download button to download data from the device

With the PC software, you can view and print sleep report, which can also be exported as PDF or CSV files.
Note: while the device is being connected to app, it can’t connect to PC software.

5 Maintenance

5.1 Time & Date

After connection with App, device time will sync from your phone time automatically.

5.2 Cleaning

Use a soft cloth moistened with water or alcohol to clean the device surface.

6 Troubleshooting

Problem	Possible Cause	Possible Solution
Device does not turn on or no response	Battery may be low.	Charge battery and try again.
	Device might be damaged.	Please contact your local distributor.
	Software exception	Keep device in charging, touch the key for 8 seconds.
The app cannot find the device	The Bluetooth of your phone is off.	Turn on the Bluetooth in the phone.
	The device Bluetooth is off.	Turn on device
	For Android , Bluetooth cannot work without location permission	Allow location access

7 Specifications

Environmental	Operating	Storage
Temperature	5 to 40°C	-25 to 70°C
Relative humidity (non-condensing)	10% to 95%	10% to 95%
Barometric	700 to 1060hPa	700 to 1060hPa
Protection against electric shock	Internally powered equipment	
Degree protection against electrical shock	Type BF	
Electro-magnetic compatibility	Group I, Class B	
Degree of dust & water resistance	IP22	
Weight	12 g	
Size	38mm×30mm×27 mm	
Battery	3.7Vd.c., Rechargeable Lithium-polymer	
Charge time	2-3 hours	
Battery life	14 hours for typical use	
Wireless	Bluetooth 4.0 BLE	
Oxygen level range	70% to 100%	
SpO2 Accuracy (Arms)	80-100%:±2%, 70-79%:±3%	
Pulse Rate range	30 to 250 bpm	
Pulse Rate accuracy	±2 bpm or ±2%, whichever is greater	
A functional tester or SpO2 simulator (Model: PRONK TECHNOLOGIES OX-1) can be used to determine the pulse rate accuracy.		

Reminder source	low oxygen level; high/low pulse rate
Recorded parameters	Oxygen level, Pulse Rate
Data storage	4 sessions, up to 10 hours for each
Frequency range	2.402-2.480GHz
Max RF power	-10 dBm
Expected service life	3 years
Mobile App for iOS	iOS 9.0 or above, iPhone 4s/ iPad 3 or above
Mobile App for android	Android 5.0 or above, with Bluetooth 4.0 BLE
Wavelength/Max emission power	660nm/940nm, 0.8mW/1.2mW

8 Appendix EMC

The equipment meets the requirements of IEC 60601-1-2:2014.

Guidance and manufacturer’s declaration-electromagnetic emission		
The Pulse Oximeter is intended for use in the electromagnetic environment specified below. The customer or the user of the Pulse Oximeter should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The Pulse Oximeter uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The Pulse Oximeter suitable for use in all establishments, including domestic establishments and those directly network that supplies buildings used for domestic purposes.
Harmonic emissions IEC61000-3-2	N/A	
Voltage fluctuations/flicker emissions IEC61000-3-3	N/A	

Guidance and manufacturer’s declaration-electromagnetic emission			
The Pulse Oximeter is intended for use in the electromagnetic environment specified below. The customer or the user of the Pulse Oximeter should assure that it is used in such an environment.			
Immunity test	IEC60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge(ESD) IEC61000-4-2	±8 kV contact ±15kV air	±8 kV contact ±15kV air	Floors should be wood, concrete or ceramic tile. if floors are covered with synthetic material, the relative humidity should be at least 30%
Electrical fast transient/ burst IEC61000-4-4	±2kV for power Supply lines ±1 kV for input/output lines	N/A	N/A
Surge IEC 61000-4-5	±1kV line (s) to line(s) ±2kV line(s) to earth	N/A	N/A
Voltage dips, short interruptions and voltage variations on power supply input lines IEC61000-4-11	<5% UT (>95% dip in UT) for 0.5 cycle <40% UT (60% dip in UT) for 5 cycles <70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 s	N/A	N/A
Power frequency (50Hz/60Hz) magnetic field IEC61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE: UT is the a.c. mains voltage prior to application of the test level.

Guidance and manufacturer’s declaration – electromagnetic immunity			
The Pulse Oximeter is intended for use in the electromagnetic environment specified below. The customer or the user of The Pulse Oximeter should assure that it is used in such an electromagnetic environment.			
Immunity test	IEC60601 test level	Compliance level	Electromagnetic environment -guidance
			Portable and mobile RF communications equipment should be used no closer to any part of the Pulse Oximeter, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance
Conducted RF IEC61000-4-6	3 Vrms 150 kHz to 80 MHz	N/A	

Radiated RF IEC61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	d=1.2√P d=1.2√P 80MHz to 800MHz d=2.3√P 800MHz to 2.5GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). b Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey ,a should be less than the compliance level in each frequency range .b Interference may occur in the vicinity of equipment marked with the following symbol.

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.
NOTE 2: These guidelines may not apply in all situations.
Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

a: Field strengths from fixed transmitters, such as base stations for radio (cellular / cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, and electromagnetic site survey should be considered. If the measured field strength in the location in which The Pulse Oximeter is used exceeds the applicable RF compliance level above, The Pulse Oximeter should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating The Pulse Oximeter.
b: Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

Recommended separation distances between portable and mobile RF communication the equipment			
The Pulse Oximeter is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of The Pulse Oximeter can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Pulse Oximeter as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter W(Watts)	Separation distance according to frequency of transmitter M(Meters)		
	150kHz to 80MHz d=1.2√P	80MHz to 800MHz d=1.2√P	80MHz to 2,5GHz d=2.3√P
0,01	N/A	0.12	0.23
0,1	N/A	0.38	0.73
1	N/A	1.2	2.3
10	N/A	3.8	7.3
100	N/A	12	23
For transmitters rated at a maximum output power not listed above, the recommended separation distance in metres (m) can be determined using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

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Illustration
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