

Health Monitor Specification



Model: HC-03
 Power voltage: DC3.7V
 Size: 70mm*70mm*18.4mm
 Weight: approximately 70g
 Wireless communication: Bluetooth 4.0
 Working frequency: 2.4000GHz-2.4835GHz

Blood pressure heart rate	Measuring method: oscillometric method, Cuff perimeter: 22-35cm Measuring range: blood pressure 0-300mmHg Systolic pressure: 60- Diastolic pressure: 40-130mmHg Heart rate 40-180bpm Measuring error: pressure ± 3 mmHg ; Heart rate $\pm 5\%$
Blood oxygen	Measuring method: reflective Method Measuring range: 90%-99% Measuring error: $\pm 2\%$
Temperature measurement	Measuring method: infra-red Measuring part: forehead Measuring range: 28°C - 42°C Measuring error: 35-42°C $\pm 0.2^\circ\text{C}$; $< 35^\circ\text{C}$ $\pm 0.3^\circ\text{C}$
ECG measurement	Measurement mode: Single lead Input impedance: $\geq 100\text{K}\Omega$ Input circuit current: $< 0.1\mu\text{A}$ Calibration voltage: 1mV $\pm 0.05\text{mV}$ Sensitivity tolerance: $< 10\%$ 50Hz interference suppression filter: $> 20\text{dB}$ Maximum input range: $\pm 4.5\text{mV}$ Polarization resistance voltage: $\pm 300\text{mV}$, Amplitude variation $< 10\%$ Frequency response: 0.5~40Hz Overshoot: not more than 20%
Blood glucose measurement	Measuring range: 1.1mmol/L~33.3mmol/L Measuring error: $< 5.5\text{mmol/L} (< 100\text{mg/dL})$ $\geq 5.5\text{mmol/L} (\geq 100\text{mg/dL})$ CV $< 7.5\%$
Environmental humidity for operation: +5°C-+40°C, 15%- 93%RH Environmental humidity for storage and transport: -25°C - 70°C, $\leq 93\%$ RH Environmental pressure: 70-106kPa Environmental pressure: 70-106kPa Electric shock protection: BF-style applied part	