

Technical Specifications

Central unit

- Display: LCD backlit touch screen display 128x64 pixels
- Power supply: Lithium ion 3.7 V, 1100 mA rechargeable battery with 50 hours measurement back up
- Accelerometer: Triaxial ± 2 g, 400 Hz sampling
- Dimension and weight: central unit 101x48x16 mm, 99 g removable turbine head: 46x47x24 mm, 17 g

Spirometry

- Flow sensor: Bi-directional digital turbine
- Flow range: ± 16 L/s
- Volume accuracy: $\pm 3\%$ or 50 mL, whichever is greater
- Flow accuracy: $\pm 5\%$ or 200 mL, whichever is greater
- Dynamic resistance at 12 L/s: < 0.5 cm H₂O/L/s
- Temperature sensor: semiconductor (0-45°C)

Spirometer measured parameters

- FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25%-75%, FET, Estimated Lung Age, Extr. Vol., FIVC, FIV1, FIV1/FIVC%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MW measured, MW calculated

Oximetry

- SpO₂ range: 0 -100%, $\pm 2\%$ (50-100% SpO₂)
- Pulse rate range: 20-254 BPM, ± 2 BPM or 2%

Pulseoximeter measured parameters

- SpO₂ [Baseline, Min, Max, Mean], Pulse rate [Baseline, Min, Max, Mean], T90% [SpO₂<90%], T89%[SpO₂<89%], T88% [SpO₂<88%], T5% [SpO₂>5%], ?index [12s], SpO₂ events, Pulse rate events [Bradycardia, Tachycardia], Step counter, Movement [VMU], Recording time, Analysis time

Sleep analysis

- Body position, SpO2 events, Desaturation index (ODI), Desaturation [Mean Value, Mean duration, Longest duration, Nadir Peak], ?SpO2 [Min Drop, Max Drop], Total Pulse Variations, Pulse Rate Index, NOD89% [SpO2<89%; >5min], NOD4% [SpO2 Basale-4%; >5min], NOD90% [SpO2<90%;