

Spiroluft

Technical Specifications



System

Device

Device Dimensions: 150 X 70 X 40 mm
Weight: 250 grams

Electrical Data

Power: Battery operation
Power Cable: USB A to C
Power Consumption: 0.56 Watt (Approx.)
Battery: Rechargeable Lithium Polymer Battery, 3.7 V, 2000 mAh
Battery Capacity: 12 to 13 Hrs Normal use

Mouthpiece

Disposable, OD 30 mm, resistance (cm H₂O)
<1.3@60L/min with bacterial filtration 99.99%

Interfaces

BLE Communication
Recording Functions
Measurements:
FE_{CO}, FVC, FEV1, & PEF Measurement
Standard Spirometry: ATS ERS 2005/2019 update, GLI 2012
Measurement Standards: GOLD

Memory

Cloud based solution

Sensor

SPIROLUFT

Measurement Method: Dual-Sensor Technology
Measurement Range: Flow 0 to ±16 L/s
Volume: No Limit
Measurement Accuracy: Flow ±2.5% & Volume ±2.5% or 50 ml
Temperature Drift: Max ±2%
Respiratory Resistance: Less than 0.15 kPa/L/s
Standards Compliance: ATS

Environmental Conditions Sensor

The Environment conditions for the sensor depend on the user operations and are determined by it.

Temperature

Operating: +15 °C to +50 °C
Transport/Storage: -20 °C to +50 °C

Relative Humidity

Operating: 10 to 95% RH, non-condensing
Transport/Storage: 10 to 95% RH, non-condensing

Standards

Certification: Undergoing Class according to IEC60601-1:I