





## Technical specification

<b>Main body</b>	
<b>Width</b>	48 mm
<b>Length</b>	101 mm
<b>Thickness</b>	16 mm
<b>Weight</b>	99 g (battery pack included)
<b>Turbine housing</b>	
<b>Width</b>	47 mm
<b>Length</b>	46 mm
<b>Thickness</b>	24 mm
<b>Weight</b>	17 g
<b>Turbine</b>	
	Reusable turbine (code 910002)
	Disposable turbine (code 910004)
<b>Accelerometer</b>	tri axial accelerometer
<b>Power supply</b>	Rechargeable Lithium-Ion 3.7V, 1100 mAh
<b>Current capacity</b>	1100 mAh
<b>Consumption</b>	~20-30 mA (during test)
<b>Batteries charger</b>	voltage=5 V DC, current=minimum 500 mA, Connector : micro USB type B compliant with EN 60601-1
<b>Autonomy</b>	50 hours
<b>Connectivity</b>	USB 2.0, Bluetooth® 2.1
<b>Display</b>	LCD monochrome, 160 × 80 pixel Dimension 2.8 inch
<b>Keyboard</b>	touchscreen
<b>Mouthpieces</b>	Ø 30 mm (1.18 inch)
<b>Type of electrical protection</b>	Internally powered
<b>Safety level for shock hazard</b>	Type BF Apparatus
<b>Conditions of use</b>	Apparatus for continuous use
<b>Storage conditions</b>	Temperature: MIN -20 °C, MAX + 60 °C Humidity: MIN 10% RH; MAX 95%RH
<b>Operating conditions</b>	Temperature: MIN + 10 °C, MAX + 40 °C Humidity: MIN 10% RH, MAX 95%RH
<b>Applied norms</b>	EN 60601-1:2005 + A1:2012 EN 60601-1-2:2015 ISO 80601-2-61:2017 ISO 26782:2009 ISO 23747:2015

## Spirometry

<b>Flow sensor</b>	bi-directional digital turbine
<b>Flow range</b>	±16L/s
<b>Volume accuracy</b>	±2.5% or 50mL
<b>Flow accuracy</b>	±5% or 200mL/s
<b>Dynamic resistance</b>	<0.5 cmH2O/L/s
<b>Temperature sensor</b>	semiconductor (0-45°C)
<b>Measured parameters</b>	FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, ELA, FIVC, FIV1, FIV1/FIVC%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV
<b>Memory capacity</b>	Up to 10000 tests

## Oximetry (on request)

<b>Measurement method</b>	Red and infrared absorption
<b>SpO2 range</b>	0-99%
<b>SpO2 accuracy</b>	± 2% between 70-99% SpO2
<b>Average number of heart beats for the %SpO2 calculation</b>	8 beats
<b>Pulse Rate range</b>	30-254 BPM
<b>Pulse Rate accuracy</b>	± 2BPM or 2%
<b>Average interval for the calculation of cardiac pulse</b>	8 seconds
<b>Signal quality indication</b>	0 - 8 segments on display
<b>Sleep test</b>	Rapid Desaturation Analysis > 2,5 min. (ODI) Prolonged Desaturation Analysis < 5 min. (NOD) % Bradycardia Duration (<40 BPM) % Tachycardia Duration (>120 BPM) % of Time with SpO2 ≤ 90% (T90%, T89%, T88%, T87%) Body position recording during test
<b>6MWT test</b>	Baseline, exercise, recovery with dyspnea and fatigue data entry. O2 GAP
<b>Memory capacity</b>	up to 300 hours oximetry

## Certificates & Registrations

<b>CE 0476</b>	MED 9826
<b>FDA 510 (k)</b>	K 103530
<b>Health Canada</b>	71191 (class II), 75535 (class III)
<b>CND code</b>	Z12150102 (spiro) Z1203020408 (spiro + oxy)
<b>GMDN code</b>	46906 (spiro), 45607 (spiro + oxy)
<b>Ministry of Health</b>	499389/R (910600) 501050/R (910606) 501619/R (910610) 1271090/R (910600I1) 1271086/R (910606I) 1271078/R (910610I1)