



Technical specification

Width	49 mm
Length	109 mm
Thickness	21 mm
Weight	60.7 g (batteries included)

Turbine



Reusable Turbine with plastic Mouthpiece (910013)



Disposable Turbine (910004)

Mouthpiece	Ø 30 mm (1.18 inches)
Power supply	2 batteries AAA 1.5 V
Consumption	max 12 mA
Lifetime	average 8 µA (Stand by)
IP protection level	5 years
Connectivity	IP22
Type of electrical protection	Bluetooth® 5.0 ready
Safety level for shock hazard	Internally powered
Conditions of use	Type BF Apparatus
Storage conditions	Apparatus for continuous use
	Temperature: MIN -25 °C, MAX + 70 °C
	Humidity: MIN 10% RH; MAX 93% RH
Operating Conditions	Temperature: MIN + 5 °C, MAX + 40 °C
	Humidity: MIN 15% RH, MAX 93% RH
Shipping conditions	Temperature: MIN -25 °C, MAX + 70 °C
	Humidity: MIN 10% RH; MAX 93% RH

Spirometry

Flow sensor	bi-directional digital turbine
Flow range	16L/s (960 L/m)
Volume range	10 L
Volume accuracy	±2.5% o ±0.05L
Flow accuracy	±5.0% o 0,20 L/s
Dynamic resistance	<0.5 cm H ₂ O/L/s (a 12 L/s)
Temperature sensor	none
Available test	FVC, VC

Measured parameters	FEV1, PEF, FVC, FEV6, FEV2575, FVC2575
Additional optional parameters	FEF75, FEF2575, FET, FEV1%, FEV6%, FEV6/FVC, FEF25, FEF50, Vext, FIVC, FIV1, FIV1%, PIF, FEV3, FEV3%, PEF Time, FEV05, FEV05%, FEV075, FEV075%, FEV2, FEV2%, FEF7585, FIF25, FIF50, FIF75, EVC, IVC, IC, SET, SIT.

Memory capacity	the application on the remote device (smartphone/tablet) memorizes data
-----------------	---

Oximetry

Measuring method	double wavelength
%SpO ₂ range	70%-100%
%SpO ₂ accuracy	±1.9%
Average number of beats for the %SpO ₂ calculation	12 beats
Pulse Rate range	30-200 BPM
Pulse Rate accuracy	±3%
Average interval for Pulse rate calculation	12 seconds
Quality signal indicator	0-8 lines
Available tests	spot
Measured parameters	%SpO ₂ MIN, %SpO ₂ MEAN, %SpO ₂ MAX, BPM _{MIN} , BPM _{MEAN} , BPM _{MAX} , T _{TOTAL}

Wavelength sensors	Red 660 nm
	Infrared 880 nm
Maximum optical output power	1.2 mW

Certification & Registration

CE 0476	MDR 2017/745
FDA 510 (k)	K230501
Health Canada	107185 (class II)
EMDN/GND	Z12150102
	Z1203020408

Codice GMDN	46906
	45607

Applicable standards	ATS/ERS 2005, 2019 Update
	ISO 26782:2009
	ISO 23747:2015
	ISO 14971:2019
	ISO 10993-1:2018
	2011/65/UE Directive
	2015/863/UE Directive
	EN ISO 15223-1:2021
	IEC 60601-1:2005 + A1:2012 + A2:2020
	EN 60601-1-2:2015 + A1:2021
	EN IEC 60601-1-6:2010 + A1:2013 + A2:2020
	EN 60601-1-11:2015 + A1:2020
	ISO 80601-2-61:2017