



Technical specification

Width Length Thickness Weight 220 mm 210 mm 51 mm 1450 g (battery pack included)

Sensors



miniflowmeter (code 900595) for reusable and disposable turbine dimension (\emptyset 30 mm, 42 mm)

Reusable soft, adult, MIR sensor for oximetry tests (code 919024) only for spirolab code 911081

Rechargeable battery and mains

Power supply

- • · · • - • • · · · · · · · · · · · ·	8	
	power Ni-MH, 6	elements
Current capacity	4500 mAh	
Consumption	average 250 mA	
Backup battery voltage	none	
Batteries charger		12 V, current=1A,
	compliant with H	EN 60601-1
Autonomy	~10 hours	
Connectivity	USB 2.0, Bluetooth® 2.1	
Display	7 inch colour tou	ich screen LCD
	Display with 800	x480 resolution
Keyboard	absent, touchscreen	
Mouthpieces	Ø 30 mm (1.18 inch)	
Type of electrical	Internally powered	
protection	Class II while ch	
Safety level for	Type BF Appara	
shock hazard		
Conditions of use	Apparatus for continuous use	
Storage conditions	Temperature:	MIN -40 °C,
-	*	MAX +70 °C
	Humidity:	MIN 10% RH;
	2	MAX 95%RH
Transport conditions	Temperature:	MIN -40 °C,
	*	MAX +70 °C
	Humidity:	MIN 10% RH;
	·	MAX 95%RH
Operating conditions	Temperature:	MIN + 10 °C,
- 0	±.	MAX + 40 °C
	Humidity:	MIN 10% RH,
	2	MAX 95%RH
Applied norms	Electrical Safety EN 60601-1	
	Electro Magnetio	
	EN 60601-1-2	÷ •
Degree of protection	IPX1 appliance protected against	
against water	water leaks	
penetration		

Codes and equipments

911080E0 911080E1

spiro spiro with reusable turbine 911080E2 911081E0 911081E1 911081E2

Spirometry

Flow sensor bi-directional digital turbine Volume rate 10 L Flow range $\pm 16 L/s$ Volume accuracy ±2.5% or 50 mL ±5% or 200 mL/s Flow accuracy Dynamic resistance <0.5 cm H2O/L/s Temperature sensor semiconductor (0-45°C) Test available FVC, VC, IVC, MVV, PRE-POST FVC, FEV1, FEV1/FVC%, Measured parameters FEV1/PEF, FEV1/VC, FEV1/FEF0.5, DTPEF, FEV 0.5, FEV0.5/FVC, FEV0.75, FEV0.75/FVC, FEV2, FEV2/FVC, FEV3, FEV3/FVC, FEV6, FEV1/FEV6, PEF, FEF25, FEF50, FEF75, FEF2575, FEF7585, FET, Vext, ELA, EVOL, FIVC, FIV1, PIF, FIV1/FIVC, FIF25, FIF50, FIF75, R50, MVVcal, PIF, IRV, VC, EVC, IVC, IC, ERV, IRV, FEV1/VC, TV, VE, RR, ti, te, ti/t-tot, TV/ti, MVV Memory capacity Up to 10000 tests

spiro with 120 FlowMir

spiro+oxy with reusable turbine

spiro+oxy with 120 FlowMir

spiro+oxy

Oximetry (on request)

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Measurement method	Red and infrared absorption	
SpO2 range	0-99%	
SpO2 accuracy	± 2% between 70-99% SpO2	
Average number of	8 beats	
heart beats for the		
%SpO2 calculation		
Pulse Rate range	18-300 BPM	
Pulse Rate accuracy	\pm 2BPM or 2% whichever is greater	
Average interval for	8 seconds	
the calculation of		
cardiac pulse		
Signal quality indication	0 - 8 segments on display	
Test available	spot	
Measured parameters	SpO2% min, max, average	
	BPM min, max, average	
	Test duration	
	% Bradycardia Duration (<40 BPM)	
	% Tachycardia Duration (>120 BPM)	
	% of Time with SpO2 \leq 90% (T90%,	
	T89%), T5	
Memory capacity	about 500 hours oximetry	
Certificates & Registrations		
CF 0476	MED 9826	

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CE 0476	MED 9826
FDA 510 (k)	K 052140
Health Canada	71191 (class II)
CND code	Z12150102 (spiro)
	Z1203020408 (spiro + oxy)
GMDN code	46906 (spiro), 45607 (spiro + oxy)
Ministry of Health	1272475/R (spiro)
	1272476/R (spiro + oxy)
	1645455/R (spiro)