

PRODUCT CODES - Spirolab Configurations

911080E0 – Spirometer • 911080E1 - Spirometer with reusable turbine

911081E0 - Spirometer + Oximeter • 911081E1 - Spirometer + Oximeter with reusable turbine

Technical specification		Spirometry	
Width	220 mm	Flow sensor	bi-directional digital turbine
Length	210 mm	Volume rate	10 L
Thickness	51 mm	Flow range	±16L/s
Weight	1450 g (battery pack included)	Volume accuracy	±2.5% or 50 mL
Sensors		Flow accuracy	±5% or 200 mL/s
	miniflowmeter (code 900595) for reusable and disposable turbine dimension (Ø 30 mm, 42 mm)	Dynamic resistance	<0.5 cm H2O/L/s
	Reusable soft, adult, MIR sensor for oximetry tests (code 919024) only spirolab code 911081	Temperature sensor	semiconductor (0-45°C)
Power supply	Rechargeable battery and mains	Test available	FVC, VC, IVC, MVV, PRE-POST
power	Ni-MH, 6 elements	Measured parameters	FVC, FEV1, FEV1/FVC%, FEV1/PEF, FEV1/VC, FEV1/FEF0.5, DTPEF, FEV FEV0.5/FVC, FEV0.75, FEV0.75/FVC, FEV2, FEV2/FVC, FEV3, FEV3/FVC, FEV1/FEV6, PEF, FEF25, FEF50, FEF2575, FEF7585, FET, Vext, ELA, FIVC, FIV1, PIF, FIV1/FIVC, FIF25, FIF75, R50, MVVcal, PIF, IRV, VC, IVC, IC, ERV, IRV, FEV1/VC, TV, VE, te, ti/t-tot, TV/ti, MVV
Current capacity	4500 mAh		Up to 10000 tests
Consumption	average 250 mA		
Backup battery voltage	none		
Batteries charger	Output voltage=12 V, current=1A, compliant with EN 60601-1		
Autonomy	~10 hours		
Connectivity	USB 2.0, Bluetooth® 2.1		
Display	7 inch colour touch screen LCD with 800x480 resolution		
Keyboard	absent, touchscreen		
Mouthpieces	Ø 30 mm (1.18 inch)		
Type of electrical	Internally powered		
Protection	Class II while charging battery		
Safety level for shock hazard	Type BF Apparatus		
Conditions of use	Apparatus for continuous use		
Storage conditions	Temperature: MIN -40 °C, MAX +70 °C Humidity: MIN 10% RH; MAX 95%RH	Oximetry (on request)	
Transport conditions	Temperature: MIN -40 °C, MAX +70 °C Humidity: MIN 10% RH; MAX 95%RH	Measurement method	Red and infrared absorption
Operating conditions	Temperature: MIN + 10 °C, MAX + 40 °C Humidity: MIN 10% RH, MAX 95%RH	SpO2 range	0-99%
Applied norms	Electrical Safety EN 60601-1 Electro Magnetic Compatibility EN 60601-1-2	SpO2 accuracy	± 2% between 70-99% SpO2
Degree of protection	IPX1 appliance protected against water leaks	Average number of heart beats for the %SpO2 calculation	8 beats
against water penetration		Pulse Rate range	18-300 BPM
		Pulse Rate accuracy	± 2BPM or 2% whichever is greater
		Average interval for the calculation of cardiac pulse	8 seconds
		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 ≤ 90% (T90%, T89%), T5 about 500 hours oximetry
Codes and equipments		Memory capacity	
911080E0	spiro	Certificates & Registrations	
911080E1	spiro with reusable turbine	CE 0476	MED 9826
911080E2	spiro with 120 FlowMir	FDA 510 (k)	K 052140
911081E0	spiro+oxy	Health Canada	71191 (class II)
911081E1	spiro+oxy with reusable turbine	CND code	Z12150102 (spiro)
911081E2	spiro+oxy with 120 FlowMir	GMDN code	Z1203020408 (spiro + oxy)
		Ministry of Health	46906 (spiro), 45607 (spiro + oxy) 1272475/R (spiro) 1272476/R (spiro + oxy) 1645455/R (spiro)

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