

TECHNICAL datasheet

PRODUCT CODE 911125

Technical specification

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

Turbine



Reusable Turbine with plastic Mouthpiece (code 910013)



Disposable Turbine (code 910004)

Mouthpiece	Ø 30 mm (1.18 inches)
Power supply	2 batteries AAA 1.5 V
Consumption	max 12 mA average 8 µA (Stand by)

Autonomy	5-10 years
IP protection level	IP22
Connectivity	Bluetooth® 5-ready
Type of electrical protection	Internally powered

Safety level for shock hazard	Type BF Apparatus
Conditions of use	Apparatus for continuous use

Storage conditions	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

Applicable standards	ATS/ERS: 2005, 2019 Update
	ISO 26782: 2009
	ISO 23747: 2015
	ISO 14971: 2019
	ISO 10993-1: 2018
	2011/65/UE Directive
	EN ISO 15223: 2016
	IEC 60601-1: 2005+Amd1:2012
	EN 60601-1-2: 2015
	IEC 60601-1-6: 2010+Amd2013
	EN 60601-1-11: 2015
	ISO 80601-2-61: 2017

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
Measured parameters	FEV1, PEF, FVC, FEV1/FVC, FEV6, FEF2575
Additional parameters available with F/V version	FIVC, FIV1, PIF FEF25, FEF50, FEF75, EVol, FEV05, FEV075, FEV2, FEV3, FET, PEF Time
Memory capacity	the application on the remote device (smartphone/tablet) memorizes

data

Oximetry

Measuring method	double wavelength
%SpO₂ range	70%-100%
%SpO₂ accuracy	±1.9%
Average number of beats for the %SpO₂ 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 _{2MIN} , %SpO _{2MEAN} , %SpO _{2MAX} , 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	MED 9826
FDA 510 (k)	pending
Health Canada	pending
Codice CND	Z12150102
Codice GMDN	46906

ITALY

MIR Head Office
Via del Maggolino, 125
00155 Roma
Tel. +39 06 22 754 777
Fax +39 06 22 754 785
Mir.spirometry.com

USA

MIR USA, Inc.
5462 S. Westridge Drive
New Berlin, WI 53151
Phone +1 (262) 565-6797
Fax +1 (262) 364-2030

FRANCE

MIR Local Office
Jardin des Entreprises,
290, Chemin de Saint Dionisy
30980 LANGLADE (France)
Phone +33 (0)4 66 37 20 68
Fax +33 (0)4 84 25 14 32