



Smart One and Smart One Oxi



Smart One

Smart One is a **portable PEF and FEV1 meter** that allows for **easy and quick monitoring of lung health**.

Smart One Oxi

Smart One Oxi - the version with **oximetry** - also allows for the measurement of blood oxygen levels (**SpO2%**) and heart rate (**BPM**) through an **integrated touch oximeter**.



Main features

Ideal for respiratory diseases

Asthma, Cystic Fibrosis, COPD, Exercise-induced asthma



App-based

1-second test with results always available on the smartphone through the free dedicated MIR SMART ONE App

SpO2% reflectance sensor (touch)

Measurement of blood oxygen levels (SpO2%) and heart rate (BPM)



Pair & Play

Pairing between device and app via Bluetooth




A study on a population of 47 children with mild-moderate asthma demonstrated that integrating an Education Program with a Mobile Health Program, such as the Smart One app, promotes patient empowerment and self-management, as well as quality of care and quality of life.

[Read the full article](#)



Compatible turbine

	Mouthpiece	Turbine Disinfection	Turbine Calibration	Pack	Antiviral Filter
Reusable Turbine 	Included Reusable	Not required	Not required	Individually sealed 1 unit/box	Not required

MIR SMART ONE App



Free dedicated app
designed for Smart One and Smart One Oxi

Anytime, anywhere

The advantage of a **smart** device is its connection to the app.
MIR SMART ONE is available for free download on the Play Store and App Store.

Specifically designed for Smart One and Smart One Oxi, the MIR SMART ONE App offers **ease of use, secure and organized data storage, and simple and fast sharing of test results with your doctor** for timely and personalized management of the disease.

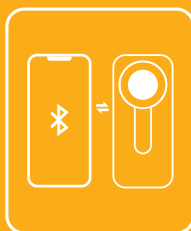
- Pairing between the app and spirometer via **Bluetooth** connection
- View and storage of **spirometry** and **oximetry** test results in the app
- Sharing test results in **PDF format** with healthcare professionals via **email, WhatsApp, SMS, Cloud, Drive, Bluetooth, AirDrop**, and other apps
- Draft of a **personalized electronic diary** with options to set symptoms and add notes for each test

Instructions for use

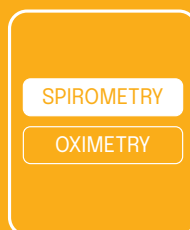
Spirometry and Oximetry tests in 5 easy steps!



1. Download the MIR SMART ONE app



2. Connect the device to the app via Bluetooth



3. Select in the app the test you want to perform



4. Perform the test



5. View the results and share them with your doctor



Measured parameters

	Spirometry	Oximetry
Smart One	FEV1 and PEF	—
Smart One Oxi	FEV1 and PEF	SpO2%min, SpO2%mean, SpO2%max, BPMmin, BPMmean, BPMmax, Ttotal

Datasheet Smart One

cod. 911100xx

Dimensions	49 x 109 x 21 mm
Weight	60.7 g (batteries included)
Turbine	Single Patient Reusable Turbine with Mouthpiece (code 910013)
Power supply	2 batteries AAA 1.5 V
Consumption	max 12 mA Stand by 8 µA medium
Backup battery voltage	none
Batteries charger	none
Lifetime	5 years
Connectivity	Bluetooth 5.0 ready
Mouthpieces	Ø 30 mm (1.18 inch)
Type of electrical protection	Internal power supply
Safety level for shock hazard	Type BF Apparatus
IP protection level	IPX2
Conditions of use	Apparatus for continuous use
Storage conditions	Temp: MIN -25 °C, MAX +70 °C Humidity: MIN 10% RH; MAX 93%RH
Operating conditions	Temp: MIN +5 °C, MAX +40 °C Humidity: MIN 15% RH; MAX 93%RH
Shipping conditions	Temp: MIN -25°C, MAX +70 °C Humidity: MIN 10% RH, MAX 93%RH
Applicable standards	IEC 60601-1:2005 + A1:2012 + A2:2020 IEC 60601-1-2:2014 + A1:2020 EN ISO 14971:2019 ISO 10993-1:2018 2011/65/UE Directive EN ISO 15223-1:2021 IEC 60601-1-6:2010 + A1:2013 + A2:2020 IEC 60601-1-11:2015 + A1:2020 ATS/ERS Guidelines(2019 update) ISO 26782: 2009 ISO 23747: 2015

Spirometry	
Flow sensor	bi-directional digital turbine
Flow range	±16L/s
Volume accuracy	±2.5% or 0,05 L
Peak Flow accuracy	±10% or 0,33 L/s
Dynamic resistance	<0.5 cm H2O/L/s
Temperature sensor	none
Measured parameters	FEV1, PEF
Memory capacity	The application on the smart phone stores data
Certificates & Registrations	
CE 0476	MDR 2017/745
FDA 510 (k)	K181666
Health Canada	96378 (class II)
EMDN liv.4	Z121501
CND code	Z12150102
GMDN code	46906
Ministry of Health	2494874/R

Datasheet

Smart One Oxi

cod. 911120xx

Dimensions	49 x 109 x 21 mm
Weight	60.7 g (batteries included)
Turbine	Single Patient Reusable Turbine with Mouthpiece (code 910013)
Power supply	2 batteries AAA 1.5 V
Consumption	max 12 mA Stand by 8 µA medium
Lifetime	5 years
Connectivity	Bluetooth 5.0 ready
Mouthpiece	Ø 30 mm (1.18 inch)
Type of electrical protection	Internally powered
Safety level for shock hazard	Type BF Apparatus
IP protection level	IP22
Conditions of use	Apparatus for continuous use
Storage conditions	Temp: MIN -25 °C, MAX +70 °C Humidity: MIN 10% RH; MAX 93%RH
Operating conditions	Temp: MIN +5 °C, MAX +40 °C Humidity: MIN 15% RH; MAX 93%RH
Shipping conditions	Temp: MIN -25°C, MAX +70 °C Humidity: MIN 10% RH, MAX 93%RH
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Spirometry	
Flow sensor	bi-directional digital turbine
Flow range	±16L/s (960L/m)
Volume range	10 L
Volume accuracy	±2.5% or ±0.05 L
Peak Flow accuracy	±10% or 0,33L/s
Dynamic resistance	<0.5 cm H2O/L/s (@ 12 L/s)
Temperature sensor	none
Available test	Peak Flow
Measured parameters	FEV1, PEF
Memory capacity	The application on the remote device (smartphone/tablet) stores data

Oximetry	
Measuring method	Double wavelength
%SpO2 range	70%-100%
%SpO2 accuracy	±1.9%
Average number of beats for the calculation % SpO2	12 beats
Pulse Rate range	30-200 BPM
Pulse Rate accuracy	±2 BPM
Average interval for BPM calculation	12 seconds
Quality signal indicator	0-8 lines
Available tests	Spot
Measured parameters	%SpO2min, %SpO2mean, %SpO2max, BPMmin, BPMmean, BPMmax, Ttotal
Wavelength sensors	Red 660 nm Infrared 880 nm
Maximum optical output power	1.2 mW

Certificates & Registrations	
CE 0476	MDR 2017/745
FDA 510 (k)	K230501
Health Canada	107185 (class II)
EMDN liv.4	Z121501
Codice CND	Z12150102
Codice GMDN	46906 45607

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