

SPI ROBANK® OXI

App-Based Spirometer with embedded Oximeter.

The simplest device for accurate Remote Patient Monitoring and Homecare. Real time test available on Smartphone via Bluetooth Smart 4.0





SPIROBANK[™] OXI

MAIN features



AUTOMATIC PAIR AND PLAY

Automatic pairing via Bluetooth BLE. Real-time test result on your Smartphone



MEASURED PARAMETERS

Spirometry Parameters: PEF, FEV1, FVC, FEV1/FVC, FEF2575, FEV6, VEXT, DTPEF, FEF75, FET, FEF25, FEF50, FIVC, FIV1, PIF, FEV3, FEV05, FEV075, FEV2

Oximetry Parameters: %SpO2min, %SpO2mean, %SpO2max, BPMmin, BPMmean, BPMmax, Ttotal



COMPLIANCE ATS/ERS 2019

And other Standards including ISO 26782 (for Spirometry), ISO 23747 (for PEF), ISO 80601-2-61 (for Oximetry) and more. CE0476, FDA Pending



DISTINCTIVE features



SPIROMETRY GUIDELINES

Suitable for all ages from 5 to 93 years and multiethnic groups (GLI predicted sets)



REAL-TIME OXIMETRY

Innovative reflectance pulse-oximetry sensor (Touch). Easy to use and accurate.



LIVE VIDEO EXAM

Connect with your Healthcare provider in real-time, from the comfort of your home



COVID-19 PANDEMIC

Avoid going to the hospital or medical offices during COVI D-19 pandemic

GO-TO-MARKET TOOLKIT

Software Development Kit available for System Integrators and App Developers.

OEM service available for Spirometry and Oximetry.



Learn more about available SDK and OEM



Up- to 30 Spirometry parameters and 8 Oximetry parameters available via SDK!

Always INCLUDED

- 2x AAA 1.5V Batteries
- Single Patient Reusable Turbine
- Plastic reusable mouthpiece

- User manual
- Napp for Smartphone (iOS and Android)



SPIROBANK ®

Compatible SOFTWARE

MIR SPIROBANK APP

Mobile App (iOS and Android), for real time spirometry and oximetry test, directly on your Smartphone via Bluetooth Smart 4.0

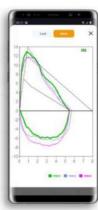


REAL TIME TEST

Spirometry: PEF, FVC, FEV1, FEV1/FVC ratio, FEF25/75, FEV6, VEXT, DTPEF, FEF75, FEF25, FEF50.

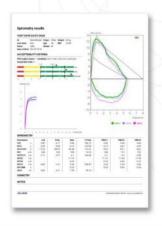
Oximetry: SpO2% (mean), Pulse BPM (mean)





MEDICAL REPORT

Professional PDF report Including Acceptabilty Messages, Quality Control Grade, Acceptable Trials, Variability of FEV1 and FVC, Pictograms



SHARE RESULTS

Share results in PDF With anyone at anytime via eMail, Whatsapp, SMS, Cloud, Drive Bluetooth, Airdrop and other Apps



PERSONAL TREND

E-diary, symptoms and notes can be added for each test.

Oximetry results can also be added manually on the App





INCENTIVE

Real time animation on Smartphone, to improve personal compliance during the test





Compatible TURBINES

Single Patient Reusable Turbine





1	М	οι	ıt	h	oi€	ece
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Disinfection
Not
required

Turbine

Not required

Turbine

Calibration

Not Individually sealed: quired 1 unit / box

Not required

Antiviral

Filter

flowMIR ™

Disposable Turbine



Included Disposable

Not required

Not required

Individually sealed: 60 or 10 units / box

Packaging

Not

required



SPIROBANK ®

Also available in MORE CONFI GURATIONS









Techn	ical
Specif	ication

Spirobank Oxi

Spirobank Smart

Smart One OXI

Smart One

TYPE OF SPIROMETER

App-Based, for Remote Patient Monitoring, with Oximetry Option App-Based, for Remote Patient Monitoring App-Based, for Personal Care, with Oximetry Option

App-Based, for Personal Care

COMPATIBLE TURBINES

flowMIR™ Disposable Turbine, Single Patient Reusable Turbine flowMIR™ Disposable Turbine, Single Patient Reusable Turbine Single Patient Reusable Turbine Single Patient Reusable Turbine

COMPATIBLE SOFTWARES

MIR Spirobank App

MIR Spirobank App, iSpirometry App

Smart One App

Smart One App

EXTERNAL CONTROL

Real time plethysmographic curve and test result on SmartPhone screen. No internal memory, no display. Data are not stored in the device memory

Connect to your Smartphone via Bluetooth Smart BLE 4.0

Real time test on Smartphone screen. No internal memory, no display. Data are not stored in the device memory.

Connect to your Smartphone via Bluetooth Smart BLE 4.0

Real time plethysmographic curve and test result on SmartPhone/Tablet screen. No internal memory, no display. Data are not stored in the device memory.

Connect to your Smartphone/Tablet via Bluetooth Smart BLE 4.0 Real time test on SmartPhone/Tablet screen. No internal memory, no display. Data are not stored in the device memory.

Connect to your Smartphone/Tablet via Bluetooth Smart BLE 4.0

EHR CONNECTIVITY

Ready-to-Connect with 3rd party Apps for Professional and Personal Care and Clinical Trials Ready-to-Connect with 3rd party Apps for Professional and Personal Care and Clinical Trials Ready-to-Connect with 3rd party Apps for Professional and Personal Care and Clinical Trials Ready-to-Connect with 3rd party Apps for Professional and Personal Care and Clinical Trials

REAL TIME TEST

Simple and intuitive App for Smartphone, always included for iOS and Android

E-diary, symptoms and notes can be added for each test.

Test Results can be shared in PDF (via Whatsapp, E-mail, other Apps), and printed directly (via Bluetooth printer).

Real time animation, to help performing a good test.

Easy to read Spirometry Guidelines for test compliance.

Real time plethysmographic curve.

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on MIR Spirobank App: Spirometry Parameters: PEF, FEV1, FVC, FEV1/FVC, FEF2575, FEV6, VEXT, DTPEF, FEF75, FEF25, FEF50 Oximetry Parameters: SpO2 (%), Pulse (BPM) Spirometry Parameters: PEF, FVC, FEV1, FEV1/FVC, FEF2575, FEV6, VEXT, DTPEF, FEF75, FET, FEF25, FEF50, FIVC, FIV1, PIF, FEV3, FEV05, FEV075, FEV2

on MIR Spirobank App: PEF, FEV1, FVC, FEV1/FVC, FEF2575, FEV6, VEXT, DTPEF, FEF75, FEF25, FEF50

on iSpirometry App: PEF, FVC, FEV1, FEV1/FVC, FEF2575, FEV6 Spirometry Parameters: PEF, FEV1

Oximetry Parameters: %SpO2min, %SpO2mean, %SpO2max, BPMmin, BPMmean, BPMmax, Ttotal

on MIR Smart One App: Spirometry Parameters: PEF, FEV1 Oximetry Parameters: SpO2 (%), Pulse (BPM) Spirometry Parameters: PEF, FEV1



SPIROBANK [®]

TECHNICAL datasheet

PRODUCTCODE 911125

Technical specification

Width 49 mm Length 109 mm Thickness 21 mm

60.7 g (batteries included) Weight

Turbine



Reusable Turbine with plastic Mouthpiece (code 910013)

Disposable Turbine (code 910004)

Mouthpiece Power supply Consumption

Autonomy IP protection level Connectivity Type of electrical protection Safety level for shock hazard

Conditions of use Storage conditions

Operating Conditions

Shipping conditions

Applicable standards

Ø 30 mm (1.18 inches) 2 batteries AAA 1.5 V max 12 mA

average 8 µA (Stand by) 5-10 years

IP22 Bluetooth®4.0 Internally powered

Type BF Apparatus

Humidity:

Humidity:

Apparatus for continuous use

MIN-25 °C, Temperature:

> MAX + 70 °C MIN 10% RH;

MAX 93% RH

MIN + 5 °C, Temperature:

MAX + 40 °C

Humidity: MIN 15% RH,

MAX 93% RH

Temperature: MIN-25°C

MAX + 70 °C MIN 10% RH:

MAX 93% RH

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 Flow range Volume range 10 L Volume accuracy Flow accuracy Dynamic resistance Temperature sensor

Available test Measured parameters

Additional parameters available with F/V version Memory capacity

bi-directional digital turbine

16L/s (960 L/m)

±2.5% o ±0.05L ±5.0% o 0.20 L/s

<0.5 cm H2O/L/s (a 12 L/s)

none **FVC**

FEV1, PEF, FVC, FEV1/FVC,

FEV6, FEF2575

FIVC, FIV1, PIF FEF25, FEF50, FEF75, EVol. FEV05, FEV075, FEV2, FEV3, FET, PEF Time

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

Oximetry

Measuring method double wavelength %SpO2 range %SpO2 accuracy Average number of beats for the %SpO2 calculation

Pulse Rate range Pulse Rate accuracy Average interval for Pulse rate calculation

Quality signal indicator Available tests

Wavelength sensors

Measured parameters

70%-100% ±1.9% 12 beats

30-200 BPM ±3%

12 seconds

0-8 lines spot

%SpO_{2MIN}, %SpO_{2MEAN},

%SpO_{2MAX}

BPM_{MIN}, BPM_{MEAN}, BPM_{MAX}

T_{TOTAL} Red 660 nm Infrared 880 nm

Maximum optical 1.2 mW

output power

Certification & Registration

CE 0476 FDA 510 (k) Health Canada Codice CND Codice GMDN

MED 9826 pending pending Z12150102 46906

Subject to Change