Personal Smart

SPIROBANK® 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









MAIN features



AUTOMATIC PAIR AND PLAY

MEASURED PARAMETERS

COMPLIANCE **ATS/ERS 2019**

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



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

REAL-TIME



(1)

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

OXIMETRY

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

MEDICAL REPORT

Share with anyone at anytime via eMail, Whatsapp, SMS, Cloud, Drive and other Apps

COVID-19 **PANDEMIC**

Avoid going to the hospital or medical offices during COVID-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



Always INCLUDED

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

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

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

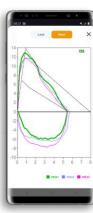


REAL TIME TEST

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

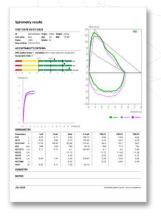
Oximetry: SpO2% (mean), Pulse BPM (mean)





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

Turbine Turbine **Antiviral** Packaging Mouthpiece Disinfection Calibration Filter Single Patient Reusable Individually Included Not Not Not Turbine sealed: Reusable required required required 1 unit / box flowMIR™ Individually

Disposable
Turbine



Included Disposable

Not required

Not required

sealed: 60 or 10 units / box

Not required







TECHNICAL datasheet PRODUCT CODE 911125

Technical specification

Width Length **Thickness**

Weight

49 mm 109 mm 21 mm

60.7 g (batteries included)

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

Apparatus for continuous use

MIN -25 °C. Temperature:

MAX + 70 °C

MIN 10% RH; Humidity:

MAX 93% RH

Temperature: MIN + 5 °C,

MAX + 40 °C

Humidity: MIN 15% RH,

MAX 93% RH

Temperature: MIN -25 °C

MAX + 70 °C

MIN 10% RH; Humidity:

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

bi-directional digital turbine Flow sensor

16L/s (960 L/m) Flow range

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 H2O/L/s (a 12 L/s)

Temperature sensor none Available test **FVC**

Measured parameters FEV1, PEF, FVC, FEV1/FVC,

FEV6, FEF2575

double wavelength 70%-100%

Additional parameters FIVC, FIV1, PIF FEF25, FEF50, available with FEF75, EVol, FEV05, FEV075, F/V version FEV2, FEV3, FET, PEF Time Memory capacity

the application on the remote device

(smartphone/tablet) memorizes data

Oximetry

Measuring method %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

Measured parameters

Wavelength sensors

0-8 lines spot %SpO_{2MIN}, %SpO_{2MEAN},

+1.9%

±3%

12 beats

30-200 BPM

12 seconds

%SpO_{2MAX},

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

T_{TOTAL} Red 660 nm Infrared 880 nm

1.2 mW Maximum optical

output power

Certification & Registration

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

MED 9826 pending pending Z12150102 46906



Mir.spirometry.com