



## MESI mTABLET SPIRO Univerzální digitální spirometr

- Bezdrátové zařízení vhodné jak do ordinace, tak pro použití i v domácí péči.
- Technologie pneumotachografu s automatickou kalibrací umožňující měřit kdykoliv a kdekoliv.
- Automatický výběr nejlepšího pokusu a přehledná zpráva o vyšetření výsledku.
- Součást systému MESI mTABLET, umožňující všechny vyšetřovací a přidružené funkce systému.

**Medicínská  
technika  
s komplexní  
integrací**



Tým zkušených  
odborníků



Široké portfolio  
produktů



Servis s plnou  
integrací do nemocnic



Řešení  
na míru

**Ozvěte se nám**

info@promedeus.cz  
**promedeus.cz**

## Measurement Specifications

<b>Quick spirometry</b>	Measurement mode: FEV <sub>6</sub> Parameters: PEF, FEV <sub>1</sub> , FEV <sub>6</sub> , FEV <sub>1</sub> /FEV <sub>6</sub>
<b>Primary spirometry</b>	Measurement modes: FVC, SVC*, Pre- & Post-Drug Phase Parameters: PEF, FEV <sub>1</sub> , FEV <sub>3</sub> , FEV <sub>6</sub> , FEV <sub>1</sub> /FVC, FEV <sub>1</sub> /FEV <sub>6</sub> , EF75 (FEF75), MEF50, MEF25, MMEF, SVC* Verification of each maneuver through on-screen quality indicators.
<b>Advanced spirometry**</b>	Measurement modes: FVC, FIVC, FVC+FIVC, SVC, MVV, TV, Pre- & Post-Drug phase, Incentive mode Parameters: PEF, FEV <sub>1</sub> , FEV <sub>3</sub> , FEV <sub>6</sub> , FEV <sub>1</sub> /FVC, FEV <sub>1</sub> /FEV <sub>6</sub> , MEF75 (FEF75), MEF50, MEF25, FIVC, FIV1, FIV3, FIV6, PIF, MIF75, MIF50, MIF25, MMEF, SVC, MVV, MVVFR, MVVT, TV, FR, MV

## Sensor type

Pneumotach

## Calibration

Automated self-calibration 1/s, based on the ambiental conditions and pre-calibrated mouthpieces

## Accuracy & Reproducibility

Meets or exceeds ATS (1994), ERS (1993), and ATS/ERS (2005)

## Measurement range

Volume range: 0-14 L

Flow range: +/- 14L/ sec

## Quality checks

ATS Acceptability and ATS Reproducibility checks

## Power & Battery

High-power rechargeable Lithium-Polymer battery

Capacity: 620 mAh

Examinations per battery charge: >150

Continuous use: >4h

Charge time for depleted battery: Approximately 1 hour (minimum charge time for a complete measurement using the FVC mode: 10 minutes)

Input: 100-240V AC/50-60Hz/350mA

Output: 5V DC/5.0A

## Charging Station

Dual purpose of the charging station: safe storage of the module between measurements and fully charged device at all times.

Width: 400 mm, Depth: 200 mm, Height: 38 mm

Weight: 675 grams

Positioning types: Desk, wall mount or trolley

## Module Dimensions

Width: 40 mm (1.57 inches), Depth: 40 mm (1.57 inches),  
Height: 140 mm (7.05 inches)

Weight: 220 g

## Smart Data Management

Secure report access with the out-of-the-box platform -MESI mRECORDS

MESI mPRINT service for secure printout through the internal network, direct .pdf storage on a local computer

Worklist integration for: DICOM, HL7, XML, GDT, JSON

Full custom integration upon request

## Protection Classification

Type of protection against electric shock: Class II

Medical device classification: Class IIa

Applied parts: CF

RF emissions (CIPSR 11): Group 1, Class B

Ingress protection: IP30

## Applied Standards

EN 60601-1 General requirements for Safety

EN 60601-1-2 Electromagnetic compatibility – Requirements and tests

EN ISO 26782 Anaesthetic and respiratory equipment – Spirometers intended for the measurement of time forced expired volumes in humans

## Operating Conditions

Temperature, operating: 10° to 40 °C

Relative humidity: 25 to 85% (no condensation)

Pressure during operation: 700 to 1060 hPa

Warm up period of 5 minutes

## Transport & Storage Conditions

Temperature:

-15° to 50 °C (<1 month), -15° to 40 °C (<3 month), -15° to 25 °C (<12 month)

Relative humidity: 25 to 85% (no condensation)

## MESI mTABLET Technical Specifications

Operating System: MESI OS	Processor: CPU Quad ARM Cortex A53 @ up to 1.2 GHz per core
Barcode reader: 1D/2D barcode imager	Screen: 1280 x 800 px IPS
Storage: 8 GB	RAM: 1 GB
Connectivity: Wi-Fi 802.11b/g/n and 2.4 GHz single band Bluetooth 4.1	Camera: 5 MP
Environment: IP2x, 90 cm drop resistant	Audio: Mono speaker
Security: 2 step authentication, user password or PIN	Battery operation: more than 8 hours of continuous use

\* available: end of May 2021

\*\* available: July 2021