

MESI mTABLET TBI Technical Specifications

Measurements

Toe-Brachial Pressure index combining plethysmography-oscillometric and photoplethysmographic methods.

Systolic toe blood pressure, systolic and diastolic brachial blood pressure, heart rate using plethysmography-oscillometric and photoplethysmographic methods.

Measurement Extensions*

Blood Pressure
Averaging Blood Pressure
Dual Blood Pressure
Toe Blood Pressure

*Available with upgrade

Measurement Range

Pressure: 0 to 299 mmHg (arms)
Pressure: 20 to 250 mmHg (toes)
Pulse rate: 30 to 199 bpm

Accuracy

Pressure: Within ± 5 mmHg
Heart rate: Within ± 5 % of readings
TBI: Within ± 0.1

Power & Battery

High-power rechargeable Lithium-Polymer battery
Capacity: 1240 mAh
Examinations per battery charge: >200
Charge time for depleted battery (for each unit): approximately 1.5 hours
Input: 100-240V AC / 50-60Hz / 350mA
Output: 5V DC/5.0A

Module Dimensions (TBPM D)

Width: 40mm (1.57 inches)
Depth: 40mm (1.57 inches)
Height: 150mm (5.91 inches)
Weight: 244 grams



Module Dimensions (CUFFMD)

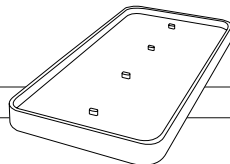
Width: 40mm (1.57 inches)
Depth: 40mm (1.57 inches)
Height: 150mm (5.91 inches)
Weight: 286 grams



Charging Station

Dual purpose of the charging station: safe storage of the modules 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



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

Connectivity

Data connectivity with MTABMD (Bluetooth 2.1 + EDR)
Receiving section
Frequency range: 2401.3 MHz – 2480.7 MHz
Bandwidth: 0.930MHz
Automatic remote updates of software and hardware

Applied Standards:

EN 60601-1 General requirements for Safety
EN 60601-1-2 Electromagnetic compatibility - Requirements and tests
EN 80601-2-30 Particular requirements for the basic safety and essential performance of automated, non-invasive sphygmomanometers

Protection Classification

Protection against electric shock: Class II
Medical device classification: Class IIa
Applied parts: Type BF Applied part
RF emissions (CISPR 11): Group 1. Class B
Ingress protection: IP42

Operating Conditions

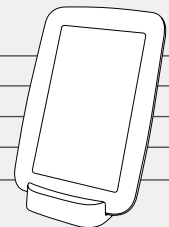
Temperature, operating: 10° to 40°C
Relative humidity: 25 to 85% (no condensation)
Pressure during operation: 700 to 1060 hPa

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)
Pressure during operation: 700 to 1060 hPa

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Operating System: MESI OS
Processor: CPU Quad ARM Cortex A53 @ up to 1.2GHz 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



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🐦 MESImedical

in MESI



European production and development



Worldwide presence



Cleared



EU Medical Device Regulations (MDR) compliant



ISO 9001 Q-1664
ISO 13485 M-049

CE 1304, ISO 9001 and ISO 13485 certified



CE 1304