



Simplifying Diagnostics



## MESI ABPI MD

# World's fastest Ankle-Brachial Index

Automated ABI measurement in 1 minute with a simple portable device



Multiple cuff sizes



Healthcare staff friendly



Bag and trolley layout



1-button operation

## Why measure ABI with MESI ABPI MD?



SMARTARM™ DETECTION

### It's FAST

No need for rest time. Regulated cuff inflation and deflation in 1 minute. Automatic detection of the arm with higher blood pressure.



PADsense™ ALGORITHM

### It's ACCURATE

Reliable interpretation of pulse waveforms to identify severe disease and notify the operator with a clear "PAD" message.



3 CUFF™ TECHNOLOGY

### It's RISK FREE

Completely simultaneous, risk free measurement, eliminating human error and blood pressure drift.



MESResults SOFTWARE

### It's DETAILED

Pulse waveform analysis, report print-out and storing of the result for a precise interpretation at any time.

# MESI ABPI MD Technical Specifications

## Measurements

Ankle-Brachial Pressure Index using improved oscillometric method and plethysmography, with PADsense™ algorithm

Heart rate and systolic, diastolic, and mean blood pressure using an improved oscillometric method and plethysmography

## Measurement extensions

Blood pressure

Pulse wave velocity\*

\*Available with MESIresults software

## Device dimensions

Width: 223 mm / 8.78 in

Depth: 174 mm / 6.85 in

Height: 86 mm / 3.38 in

Weight: 1000 g / 2.2 lbs

## Power & battery

Battery type: Rechargeable lithium-polymer battery

Capacity: 4400 mAh

AC/DC adaptor: FRIWO FW8030M/05 or FOX NEO30-XM

Input: 100-240 V AC / 50-60 Hz / 600-300 mA

Output: 5V DC / 3.0 A

Examinations per battery charge: > 100

Charge time for depleted battery: 2 hrs

## Touchscreen display

Diagonal size: 8"

Resolution: 800 x 600 pixels

Color depth: 16-bpp

## Cuffs

Medium size cuffs (circumference: 22-32 cm / 6.7-12.6 in)

Large size cuffs: (circumference: 32-42 cm / 12.6-16.5 in)

## Measurement range & Accuracy

### Measurement range:

Pressure: 0 to 299 mmHg

Pulse rate: 30 to 199 beats per minute

### Accuracy:

Pressure: ± 3 mmHg

Heart rate: ± 5% of value

Ankle-Brachial Pressure Index: ± 0.1

## Data backup and management

MESIresults software

## Protection Classification

Protection against electric shock: Class II

Medical device classification: Class IIa

Applied parts (cuffs for arms and ankles):

Type BF Applied part

Software classification: Class A

RF emissions (CIPSR 11): Group 1. Class A

Ingress protection: IP2X

## Applied Standards

EN 60601-1:2006+A1:2013 General requirements for basic safety and essential performance

EN 60601-1-2:2015+A1: 2021 Electromagnetic disturbances - Requirements and tests

EN 80601-2-30:2019 Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers

## Operating Conditions

Temperature, operating: 10° to 40°C (50° to 104°F)

Relative humidity: 30 to 80% (no condensation)

Pressure during operation: 700 to 1060 hPa

## Transport & Storage Conditions

Temperature: 0° to 40°C (32° to 104°F)

Relative humidity: 15 to 85%

Pressure during storage: 700 to 1060 hPa



ISO 9001 and  
ISO 13485 certified



MDSAP compliant



MESI, Ltd.  
Leskoškova cesta 11a  
1000 Ljubljana, Slovenia, EU

 MESIdoo  
 MESImedical  
 MESI



European production  
and development



Worldwide presence

**FDA**

Food and Drug  
Administration  
cleared

**MDR**

EU Medical Device  
Regulations  
compliant

**NIKOMED USA INC**  
2800 Turnpike Drive  
Hatboro, PA 19040

E: [info@nikomedusa.com](mailto:info@nikomedusa.com)  
T: 1-800-355-6456  
[www.nikomedusa.com](http://www.nikomedusa.com)

E: [info@mesimedical.com](mailto:info@mesimedical.com)  
T: +386 1 620 34 87  
[www.mesimedical.com](http://www.mesimedical.com)