

MESI ABPI MD

ABI



4

Simultaneous Limb
Measurement

100+

Examinations
Per Charge

2

ABI Values:
Left & Right

3 & 4

Cuff Measurement
Protocols

Features

- Pulse waveforms and oscillation graphs
- Heart rate and blood pressure measurements
- Patient profile assignment
- Measurement data storage
- USB data transfer
- Lightweight, battery-powered design
- Fully automated ABI measurement
- Portable point-of-care design
- Reaches full charge in 2 hours

A New Standard In ABI Screening

The MESI ABPI MD is a fully automated Ankle-Brachial Index (ABI) system designed to quickly and accurately screen patients for Peripheral Arterial Disease (PAD). Using simultaneous oscillometric blood pressure measurements from the upper and lower extremities, the system calculates left and right ABI values while displaying pulse waveforms and oscillation graphs to support clinical interpretation. Its compact, lightweight, battery-powered design provides a convenient point-of-care solution, delivering fast, repeatable results while helping streamline vascular assessment and patient workflow.

Market Type



Primary
Care



Long-Term
Care



Acute Care



Specifications

DIMENSIONS

Width: 223 mm/8.78 in
Height: 174 mm/6.85 in
Depth: 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 hours

CUFF SIZES

Medium size cuffs
ABPIMDACFFBRM,
ABPIMDACFFBLM,
ABPIMDACFFALM,
ABPIMDACFFARM
Circumference: 22-32 cm
Large size cuffs
ABPIMDACFFBRL,
ABPIMDACFFBLL,
ABPIMDACFFALL,
ABPIMDACFFARL
Circumference: 32-42 cm
RIGHT ARM - red
LEFT ARM - yellow
RIGHT ANKLE - black
LEFT ANKLE - green

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 B

OPERATING, TRANSPORTING AND STORAGE 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
Ingress protection rating: IP2X rating
Temperature: 0° to 40°C (32° to 104°F)
Relative humidity: 15 to 85%
Pressure during storage
700 to 1060 hPa
Ingress protection rating: IP2X rating

MEASUREMENT SPECIFICATIONS

Measurements using oscillometry and volume plethysmography
Ankle-Brachial Pressure Index
Systolic blood pressure
Diastolic blood pressure
Mean average blood pressure
Heart rate
Measurement range
Pressure: 0 to 299 mmHg
Pulse rate: 30 to 199 beats per minute
Max deviation
Pressure: ± 3 mmHg
Heart rate: ± 5% of value
Ankle-Brachial Pressure Index: ± 0.1