

MESI mTABLET THERMO Technical Specifications

Measurements:

Human body temperature of adult and paediatric patients

Measurement Range

Infrared probe:

Distance from measuring point: 3 cm

Measurement range: *Skin surface temp.*: 34 to 42 °C

Body temp.: 36.4 to 43.8 °C

Extended measurement range: *Surface temp.*: 28.6 to 41.2 °C

Body temp.: 32 to 43 °C

Contact probe:

Measurement range: *Surface/body temp.*: 34 to 42 °C

Extended measurement range: *Surface/body temp.*: 32 to 43 °C

Accuracy

Infrared probe:

Accuracy for measurement range: ± 0.3 °C

Accuracy for extended measurement range: ± 0.4 °C

Contact probe:

Accuracy for measurement range: ± 0.1 °C

Accuracy for extended measurement range: ± 0.4 °C

Power & Battery

Infrared probe:

Rechargeable Lithium-Polymer battery

Capacity: 2x620 mAh

AC/DC adaptor: NEO030.0-I-X-05

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

Output: 5V DC / 5.0 A

Number of measurements per battery charge: > 2500

Continuous use: 19 h

Charge time for depleted battery: approx. 2 h

Number of discharge cycles or years after which a rechargeable battery needs to be replaced: 500 cycles

Contact probe:

Rechargeable Lithium-Polymer battery

Capacity: 15 mAh

Wireless charging from IRT

Number of measurements per battery charge: > 120

Continuous use: 2 h

Charge time for depleted battery: approx. 2 h

Number of discharge cycles or years after which a rechargeable battery needs to be replaced: 500 cycles

Charging Station

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

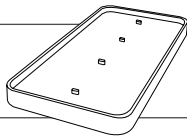
Width: 400 mm

Depth: 200 mm

Height: 38 mm

Weight: 675 g

Positioning types: Desk, wall-mount or trolley



Module Dimensions

Infrared probe:

Width: 40 mm (1.57 inches)

Depth: 41.6 mm (1.57 inches)

Height: 153 mm (7.05 inches)

Weight: 213 g

Contact probe:

Fi: 10 mm (0.39 inches) X 9 mm (0.35 inches)

Length: 118 mm (4.65 inches)

Weight: 7.5 g



Smart Data Management

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

Print options:

Via MESI mTABLET: direct printing through network printers.

Via MESI mTABLET Print Service: This service acts as a proxy and takes print requests from the mTABLET and either sends them to a connected printer or saves the documents as PDFs.

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

Full custom integration on request

Protection Classification

Type of protection against electric shock: Class II

Medical device classification: Class IIa

Applied parts: Type B applied part

Software classification: Class B

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

Applied Standards

EN 60601-1 General requirements for Safety

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

ISO 80601-2-56 Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement

Operating Conditions

Infrared probe:

Temperature, operating: 15 to 40 °C

Relative humidity: 15 to 90% (no condensation)

Pressure during operation: 700 to 1060 hPa

Ingress protection rating: IP42

Contact probe:

Temperature, operating: 10 to 40 °C

Relative humidity: 15 to 90% (no condensation)

Pressure during operation: 700 to 1060 hPa

Ingress protection rating: IP66

Transport & Storage Conditions

Temperature: -25° to 70°C

Relative humidity: 15 to 90% (no condensation)

Atmospheric pressure: 500 to 1060 hPa (mbar)

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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, an Ethernet cable, a USB-C port, 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

