

Technical Data Mobil-O-Graph®

The typical use of the Mobil-O-Graph® is 24h blood pressure Monitoring. Optionally, pulse wave analysis with different licenses is possible. The values are analyzed by the accompanying HMS-CS software.

General Performance

Measurement Oscillometric principle

24h ambulatory blood pressure monitoring

Advanced comfort IGI (Initially Gradual Inflation): Pressure setting for a gentle measurement

SST (Soft Slope Technology): Time adaptation from XS-XL sized cuff

AF® Logic (Auto-Feedback-Logic): Faster and most convenient measurements

First measurement: step-up / step-down technology

From the second measurement: Auto-Feedback-Logic - AF®

(significantly better night sleep and comfort for the patients through

individualized cuff inflation algorithm*1)

PWA option Calculation via license system

Key A: Central blood pressure Key B: Full Pulse Wave Analysis

Key C: Central blood pressure + Augmentation Index @75

Communication Bluetooth, Infrared, Serial RS232

Measurement range Systolic (SYS): 60 to 290 [mmHg]

Diastolic (DIA): 30 to 195 [mmHg]

Pulse (Pulse): 30 to 240 BPM (Beats per Minute)

Pressure range 0 - 300 mmHg

NIBP Accuracy validated according to ISO 81060-2 and BHS (A/A Grading)

Measurement frequency 4 changeable, free variable day- and night interval groups

Measurements per hour 0, 1, 2, 3, 4, 5, 6, 10, 12, 15, 20 or 30

Option: Auto telemetric transfer of Blood Pressure Measurement via Bluetooth

Automatic remember of measurement error causes an automatic repetition of measurements after 3 measurement minutes.

Power supply 2 x Ni-MH power packs, each 1.2 V and min. 1500 mAh (AA, Mignon)

2 x 1.5 V alkaline batteries (AA, Mignon)

Operation and control Display: LCD

Acoustic: Beeper

Panel: 4 Multifunction buttons

Memory 300 measurements Blood Pressure or

260 measurements Blood Pressure and Pulse Wave Analysis

Battery capacity >300 measurements with M-Cuff and high-grade batteries

Operation temperature +10°C to +40°C

Operation humidity 15% to 90% relative humidity, non-condensing

Storage temperature -20°C to +50°C

Storage humidity 15% to 95% relative humidity, non-condensing



Atmospheric Pressure 700 hPa to 1060 hPa

IP Rating IP 42

Weight Approx. 240 g (incl. batteries)

Dimensions L 128mm x W 75mm x H 30mm

Wireless Performance

Bluetooth Chip Silicon Labs WT11u

Bluetooth Version Bluetooth v2.1 + EDR (Enhanced Data Rate)

Transmission output power Bluetooth class 1 radio (Transmit power: 17 dBm)

Infrared transceiver Range up to 1.5 meters

Data transfer identification Serial number

Maintenance Service

• Infrared Interface: Calibration for Blood Pressure Module

Cuff Sizes

- XS: 14 20 cm (5.5 7.9 inch)
- S: 20 24 cm (7.9 9.5 inch)
- M: 24 32 cm (9.5 12.6 inch)
- L: 32 38 cm (12.6 15 inch)
- XL: 38 55 cm (15 21.7 inch)

Applicable Standards & Directives

- Directive 93/42/EEC (MDD) Class IIa, Annex IX, rule 10,
- Directive 2014/53/EU (RED)
- Directive 2011/65/EU (RoHS)
- IEC 60601-1: 2012, IEC 60601-1-2: 2014, IEC 60601-1-6: 2013, IEC 60601-1-11: 2015
- IEC 80601-2-30: 2013
- FCC 47 CFR Part 15
- ETSI EN 301 489-1 V2.1.1 (2017-03)
- ETSI EN 301 489-17 V3.1.1 (2017-02)
- FDA 510(K)

Note

Use only high-quality batteries. If using less efficient batteries IEM cannot guarantee the operating time specified above. Using batteries of poor quality can reduce operating time to 50%.

^{*1} Convenience of ambulatory blood pressure monitoring: Comparison of different devices BPMJ 2005, Vol 10 No 10:239-242