

Technical Data Mobil-O-Graph[®]

The intended use is 24h ambulatory blood pressure Monitoring. Optionally, a office pulse wave analysis with a PWA-Dongle is possible. The values are analysed by the accompanying HMS-CS software.

General Performance

Measurement	Oscillometric principle 24h ambulatory blood pressure monitoring
Advanced comfort	First measurement: step-up / step-down technology Up second measurement: Auto-Feedback-Logic - AF [®] (significantly better night sleep and comfort for the patients through individualized cuff inflation algorithm* ¹)
Practice PWA option	Via license dongle upgrade (100-1000 or unlimited)
Communication	Bluetooth, USB-connector, Infrared, Serial RS232
Measurement area	Systolic (SYS): 60 - 290 [mmHg] Diastolic (DIA): 30 - 195 [mmHg] Pulse (Pulse): 30 - 240 [1/min]
Pressure range	0 - 300 mmHg
Accuracy	± 3 mmHg (Static pressure)
Leckage	System: ≤ 6 mmHg / min • Cuff: ≤ 4 mmHg / min
Measurement protocols	4x free variable day- and night interval Measurements per hour 0, 1, 2, 3, 4, 5, 6, 10, 12, 15, 20 or 30 Option: Auto telemetric transfer of BPM via Bluetooth
Automatic re-measurement	A measurement error causes an automatic repetition of measurements after 3 minutes
Power supply	2x AA NiMH 1,2 V and min. 1700 mAh (HR6) 2x AA Alkaline 1,5V (LR6)
Operation and control	Display: LCD / Acoustic: Beeper / Panel: 4 Multifunction buttons
Memory	300 measurements
Battery capacity	>300 measurements with M-Cuff and high-grade batteries
Operation temperature	+10°C - +40°C
Operation humidity	15% - 90%
Storage temperature	-20°C - +50°C
Storage humidity	15% - 95%
Weight	ca. 240g (incl. batteries)
Dimensions	L 128mm x W 75mm x H 30mm

Wireless Performance

- Bluetooth 2.0 +EDR, Class 1 (Internal antenna) – Bluegiga WT11i
- Range up to 100 meter
- Supported Bluetooth Profiles: SPP / DUN / IEM-1234
- Data transfer identification: Serial number
- Communications: BT-Terminal

Cuff Sizes

- XS: 14 - 20cm
- S: 20 - 24cm
- M: 24 - 32 cm
- L: 32 - 38 cm
- XL: 38 - 55 cm

Applicable Standards & Directives

- Directive 93/42/EEC Class IIa, Annex IX, rule 10,
- Directive 2014/53/EU / FCC (Part 15)
- Bluetooth is a registered trademark of Bluetooth SIG, Inc

Note

Use only high-quality batteries. If using less efficient batteries we 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