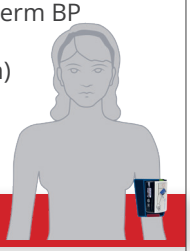
UPGRADE OPTIONS

BASIC Set

ABPMpro

- Ambulatory, long-term BP
- Actigraphy
- Body position (arm)
- Pulse

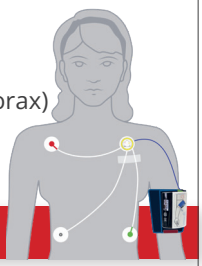


Art.-Nr.: **ABP100**

CARDIO Set

ABPMpro + 3-channel ECG sensor

- Ambulatory, long-term BP
- Actigraphy
- Body position (arm)
- Pulse
- Holter ECG
- Heart rate
- Body position (thorax)
- Impedance cardiography

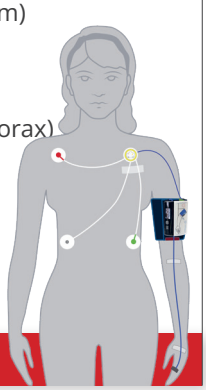


Art.-Nr.: **ABP110**

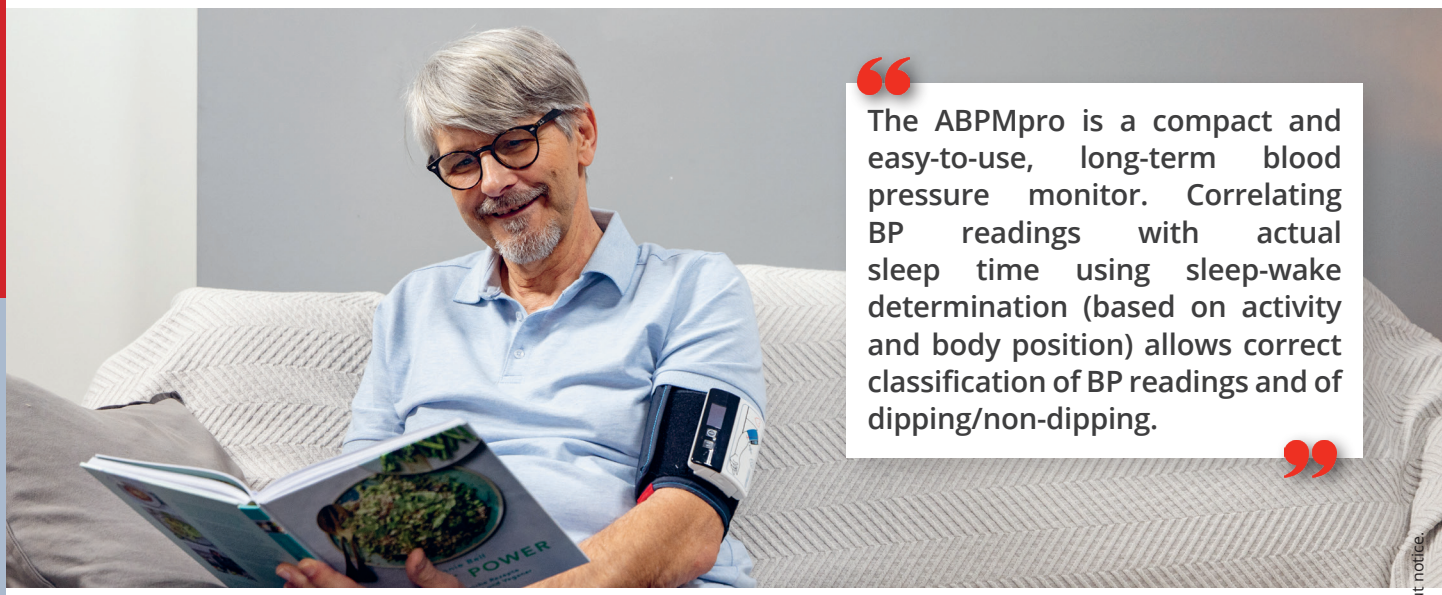
ADVANCED Set

ABPMpro + 3-channel ECG sensor + Pleth sensor

- Ambulatory, long-term BP
- Actigraphy
- Body position (arm)
- Pulse
- Holter ECG
- Heart rate
- Body position (thorax)
- Impedance cardiography
- PWA / PWV
- Cont. blood pressure based on PTT



Art.-Nr.: **ABP120**



> The ABPMpro is a compact and easy-to-use, long-term blood pressure monitor. Correlating BP readings with actual sleep time using sleep-wake determination (based on activity and body position) allows correct classification of BP readings and of dipping/non-dipping.

SPECIFICATIONS

Technical details

Cuff pressure	0 - 300 mmHg
Measured pressure range	Systolic 60 - 230 mmHg, Diastolic 40 - 130 mmHg
Measurement intervals	Individually programmable, sound signal before measurement start
Integrated channels	Activity/body position, pulse, battery status
Data collection	16 - 24 Bit signal resolution
Data storage	8 GB micro SD
Data transfer	USB connection, virtual docking station
Power supply	Li-Ion battery (1.800 mAh), up to 48 h recording duration
Display, operation	black / white, OLED; 2 operating buttons, multi-functional
Size & Weight	101 x 75 x 24 mm, 138 g (incl. battery, w/o cuff)
Interfaces	Connection with HL7 (optional)
Software	ABPMpro analysis software, license free

Cuffs

Sizes	available in 3 sizes: S (18-24 cm), M (24-34 cm), L (34-46 cm)
Integrated electrodes	classic cuff or optionally with integrated electrodes for continuous heart rate detection

Scope of delivery

Sets	Set BASIC	Set CARDIO	Set ADVANCED
Art.-No.:	ABP100	ABP110	ABP120
Base unit ABPMpro cuff size M, analysis software, charger with USB cable, manual, measuring tape, bag	✸	✸	✸
3-channel ECG sensor		✸	✸
Pleth sensor			✸

CE 0297
11.8_EN_Rev3_2024-08

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ABPMpro

AMBULATORY LONG-TERM BLOOD PRESSURE MEASUREMENT

TRADITION MEETS INNOVATION

Traditional **Oscillometric measurement**

Continuous **PTT-based method**

Validation of the ABPMpro according to the AAMI/ESH/ISO Universal Standard (ISO 81060-2:2018)

Made in Germany

CARDIOdiagnostics
A division of SOMNOmedics

OSCILLOMETRIC
BLOOD PRESSURE

BASIC DEVICE ABPMpro Oscillometric 24-hour Blood Pressure Measurement

- **Lightweight, comfortable, tubeless system**
  - The main device slides directly on to the cuff on the patient's upper arm
- **Internal sensors for activity and body position**
  - Correlation of blood pressure to activity (during the day) and body position (at night)
  - Sleep-wake determination, individual determination of TIB, more accurate blood pressure and dipping/non-dipping classification
  - Re-measurement if too much movement is detected
- **Measurement during inflation and/or deflation**
  - Back-up measurement during deflation if some artefacts occur during inflation
  - Increased information due to twice the number of measurement values
- **Graphical display of inflation/deflation process in the software and on the display**
- **Recording of cuff pressure**
  - Elimination of artfacts during analysis

EXTERNAL SENSORS
UPGRADEABLE

UP GRADE Oszillometric Longterm BP + Holter ECG

3-channel ECG sensor (Holter)

- Holter ECG measurement
  Detection of arrythmias, acceleration, deceleration and RR intervals
- Precise determination of body position (thorax)
- Determination of impedance cardiography, alternatively: pacemaker detection
- Export of ECG data for evaluation with external long-term ECG analysis software

UP GRADE Longterm BP + ECG + Pleth

Plethysmography (Pleth) sensor

- Detection of pulse wave
- Pulse wave analysis (PWA), pulse wave velocity (PWV) as a measure of arterial stiffness
- Detection of autonomous arousal based on the pleth signal

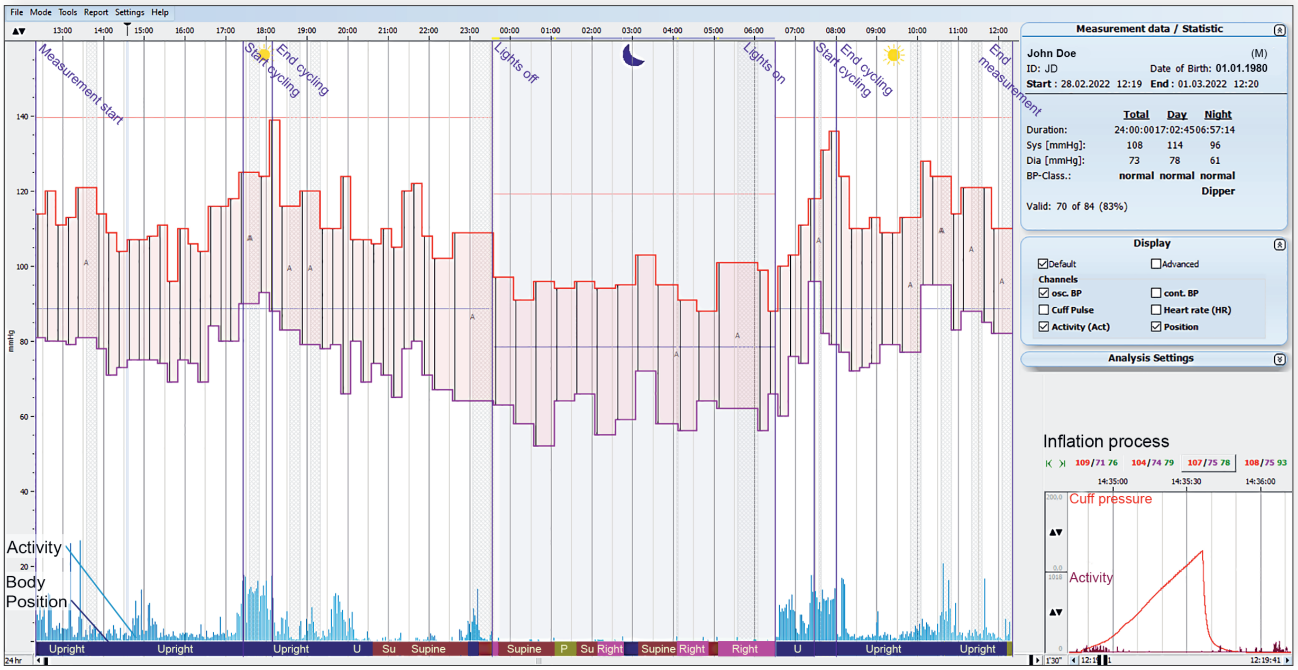
Tradition meets Innovation

Continuous, non-invasive blood pressure measurement WITHOUT inflation of the cuff

- Heartbeat-precise systolic and diastolic blood pressure curves (in mmHg) with all minima and maxima determined through pulse transit time (PTT)-based continuous blood pressure measurement
- Maximum flexibility thanks to the combination of oscillometric and PTT-based continuous blood pressure measurement
- No falsification of the measured values due to non-reactive measurement - no disturbance of sleep, no resulting blood pressure increase
- Detection of Nocturnal Blood Pressure Fluctuations (NBPF)

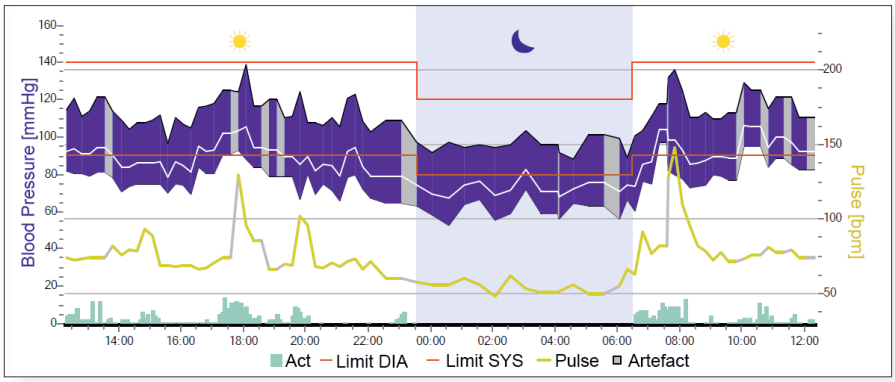
SOFTWARE (license free)

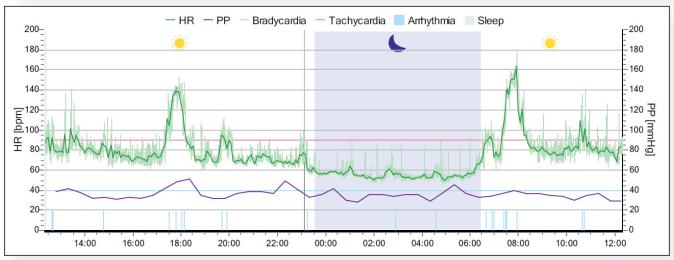
Automatic data transfer (USB connection), analysis and report generation

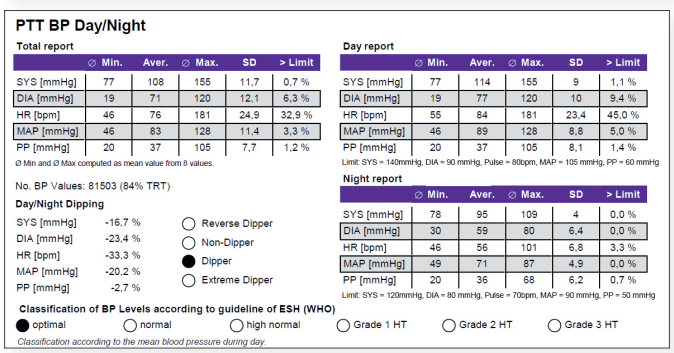


- Standard view: analysed data for a quick overview of the 24-hour blood pressure
- Advanced view: raw data to check for artefacts or verify the values measured
- Display of all measured values: sys/dia blood pressure, mean arterial pressure, heart rate, pulse pressure, body position, activity, day/night
- Display of the inflation/deflation process

REPORT







PTT BP Day/Night

Total report

	∅ Min.	Aver.	∅ Max.	SD	> Limit
SYS [mmHg]	77	108	155	11,7	0,7 %
DIA [mmHg]	19	71	120	12,1	6,3 %
HR [bpm]	46	76	181	24,9	32,9 %
MAP [mmHg]	46	83	128	11,4	3,3 %
PP [mmHg]	20	37	105	7,7	1,2 %

Ø Min and Ø Max computed as mean value from 8 values.

No. BP Values: 81503 (84% TRT)

Day/Night Dipping

SYS [mmHg]	-16,7 %	Reverse Dipper
DIA [mmHg]	-23,4 %	Non-Dipper
HR [bpm]	-33,3 %	Dipper
MAP [mmHg]	-20,2 %	Extreme Dipper
PP [mmHg]	-2,7 %	

Day report

	∅ Min.	Aver.	∅ Max.	SD	> Limit
SYS [mmHg]	77	114	155	9	1,1 %
DIA [mmHg]	19	77	120	10	9,4 %
HR [bpm]	55	84	181	23,4	45,0 %
MAP [mmHg]	46	89	128	8,8	5,0 %
PP [mmHg]	20	37	105	8,1	1,4 %

Limit: SYS = 140mmHg, DIA = 90 mmHg, Pulse = 80bpm, MAP = 105 mmHg, PP = 60 mmHg

Night report

	∅ Min.	Aver.	∅ Max.	SD	> Limit
SYS [mmHg]	78	95	109	4	0,0 %
DIA [mmHg]	30	59	80	6,4	0,0 %
HR [bpm]	46	56	101	6,8	3,3 %
MAP [mmHg]	49	71	87	4,9	0,0 %
PP [mmHg]	20	36	68	6,2	0,7 %

Limit: SYS = 120mmHg, DIA = 80 mmHg, Pulse = 70bpm, MAP = 90 mmHg, PP = 50 mmHg

Classification of BP Levels according to guideline of ESH (WHO)

optimal | normal | high normal | Grade 1 HT | Grade 2 HT | Grade 3 HT

Classification according to the mean blood pressure during day.

- Individually adjustable reports
- Tabular or graphical presentation of measured data
- Classification of blood pressure values according to activity
- 24-hour overview of all blood pressure and heart rate values with classification of day and night
- Conventional reports with blood pressure and heart rate values in 15 or 30 minute intervals