

ABPMpro

**AMBULATORY LONG-TERM
BLOOD PRESSURE MEASUREMENT**

TRADITION MEETS INNOVATION



**Traditional
Continuous**

**Oscillometric measurement
PTT-based method**



CARDIOdiagnostics
A division of SOMNOmedics

 **Promed**
A Partnership in Practice

“

An absolute game changer for doing 24hr ABPMs. So easy to use and so patient friendly.

”

Dr Lineen-Curtis

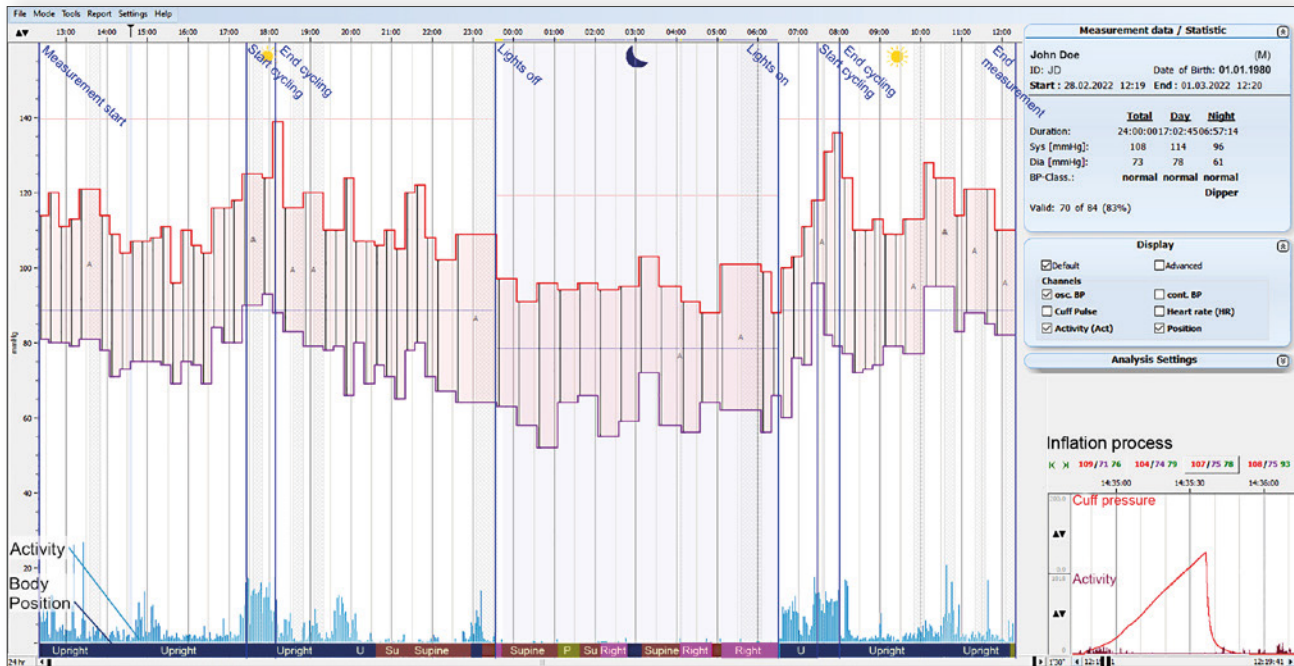


BASIC DEVICE ABPMpro

Oscillometric 24-hour Blood Pressure Measurement

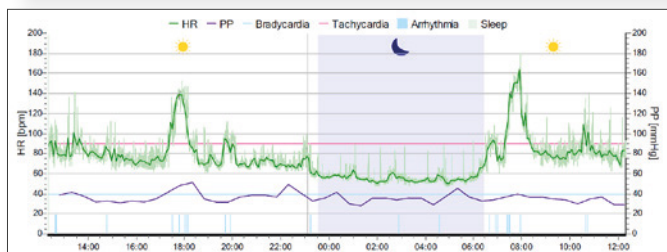
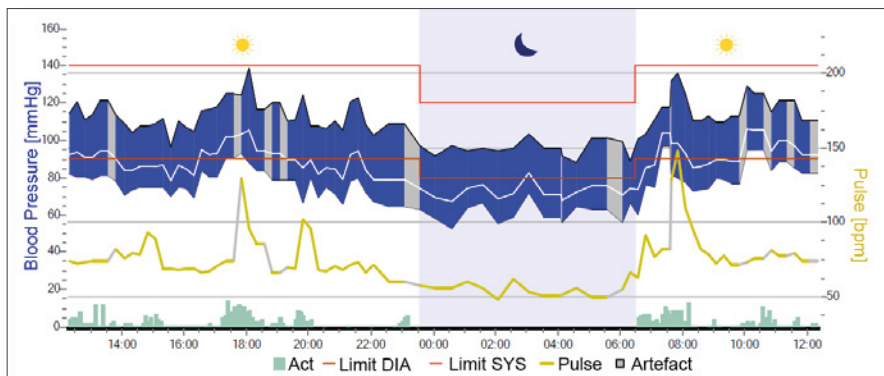
- ◆ **Simple application**
 - The main device slides directly on to the cuff - no tube needed
 - High patient comfort
- ◆ **Internal ECG - continuous recording of heart rate, independent of inflation process**
 - Allows for the detection of physical and psychological stress
- ◆ **Internal sensor for activity and body position**
 - Correlation of blood pressure to activity (during the day) and body position (at night)
 - Sleep-wake-estimation, precise classification of dipping / non-dipping
- ◆ **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**

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 | 8.3 % |
| HR [bpm] | 46 | 75 | 181 | 24.9 | 32.9 % |
| MAP [mmHg] | 46 | 83 | 128 | 11.4 | 3.3 % |
| PP [mmHg] | 20 | 37 | 105 | 7.7 | 1.2 % |

Min and Max computed as mean value from 5 values.

No. BP Values: 81503 (84% TRT)

Day/Night Dipping

| | | |
|------------|---------|---|
| SYS [mmHg] | -16.7 % | <input type="radio"/> Reverse Dipper |
| DIA [mmHg] | -23.4 % | <input type="radio"/> Non-Dipper |
| HR [bpm] | -33.3 % | <input checked="" type="radio"/> Dipper |
| MAP [mmHg] | -20.2 % | <input type="radio"/> Extreme Dipper |
| PP [mmHg] | -2.7 % | |

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.

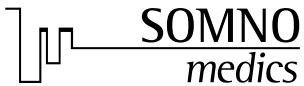
| Day report | | | | | |
|------------|------|-------|------|------|---------|
| | Min. | Aver. | Max. | SD | > Limit |
| SYS [mmHg] | 77 | 114 | 155 | 9 | 1.1 % |
| DIA [mmHg] | 19 | 77 | 120 | 10 | 9.4 % |
| HR [bpm] | 55 | 84 | 181 | 23.4 | 45.0 % |
| MAP [mmHg] | 46 | 89 | 128 | 8.8 | 5.0 % |
| PP [mmHg] | 20 | 37 | 105 | 8.1 | 1.4 % |

Limit: SYS = 140mmHg, DIA = 90mmHg, Pulse = 80bpm, MAP = 90mmHg, PP = 50mmHg

| 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 | 4.5 | 0.0 % |
| PP [mmHg] | 20 | 36 | 68 | 6.2 | 0.7 % |

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

- ◆ Individually adjustable reports
- ◆ Tabular or graphical presentation of measured data
- ◆ 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



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SPECIFICATIONS

TECHNICAL DETAILS

| | |
|------------------------------|--|
| Measurement intervals | 3, 5, 10, 15, 20, 30, 60 min. programmable, sound signal before measurement start |
| Measured pressure range | Systolic 60 - 230 mmHg, diastolic 40 - 130 mmHg |
| Cuff sizes | S (18 - 24 cm), M (24 - 34 cm), L (34 - 46 cm) |
| Cuff pressure | 0 - 300 mmHg |
| Display | Black / white, OLED |
| Operating elements | 2 operating buttons, multi-functional |
| Power supply | Li-Ion battery (1.800 mAh) |
| Data storage /-transfer | 8 GB micro SD, battery charging and data transfer via USB connection |
| Data collection | 16 - 24 bit signal resolution |
| Size / weight (without cuff) | 101 x 75 x 24 mm, weight: 125 g (incl. battery) |
| Software | License free |
| Interfaces | Connection per HL7 (optional) |
| Included in delivery | Basic device ABPMpro, cuff size M, evaluation software, manual, USB connection and charging cable, measuring tape, bag |



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