

SOMNOtouch™ NIBP

Long-term Blood Pressure



+ Holter ECG
+ Oximetry
+ Actigraphy
+ PWV

Caution:

Investigational device.
Limited by Federal (or United States)
law to investigational use.

All in One

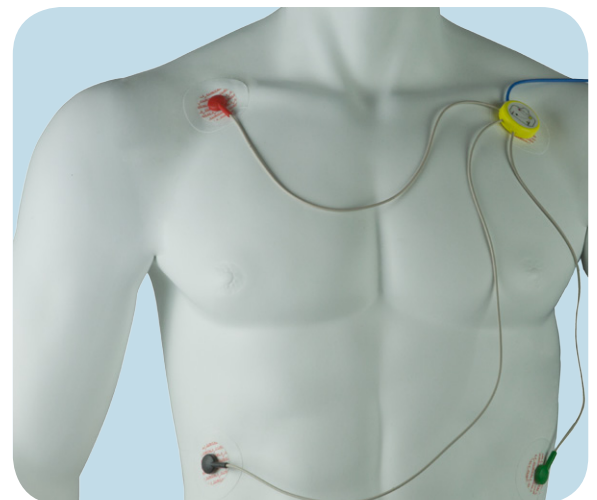
efficient, comfortable, innovative

Continuous, non-invasive blood pressure measurement without cuff

- Systolic & Diastolic Blood Pressure (in mmHg), beat-to-beat, covers all real max. and min. values, especially during REM Sleep and Supine Position
- Easy application with maximum comfort for the patients thanks to reactionless measurement without inflation of the cuff (PTT-based*, validated according to ESH protocol**)
- Minimized deviation caused by Body Position changes (reduction of hydrostatic effect)

Holter ECG

- 3 channel ECG
- Holter ECG analysis (with Schiller Software Plug-in, optional)
- Stress report based on HRV
- Export to different file formats (EDF, SCP, ASCII, etc.)



Oximetry

- Oximetry report
- Flow and Snore optionally available via AUX connection

Actigraphy

- Sleep/Wake determination***, determination of the real sleeping time, correlation of blood pressure to TIB
- During daytime: correlation of blood pressure values to physiological activity

PWV

- As an indicator for arterial stiffness

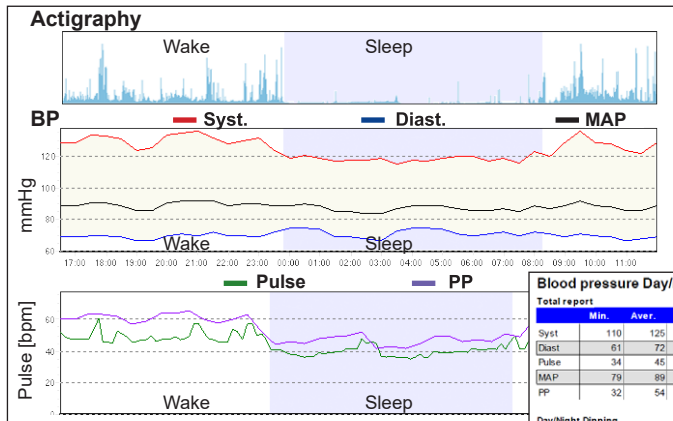
Caution:

Investigational device.
Limited by Federal (or United States)
law to investigational use.

SOMNOtouch™ NIBP

Data analysis and report

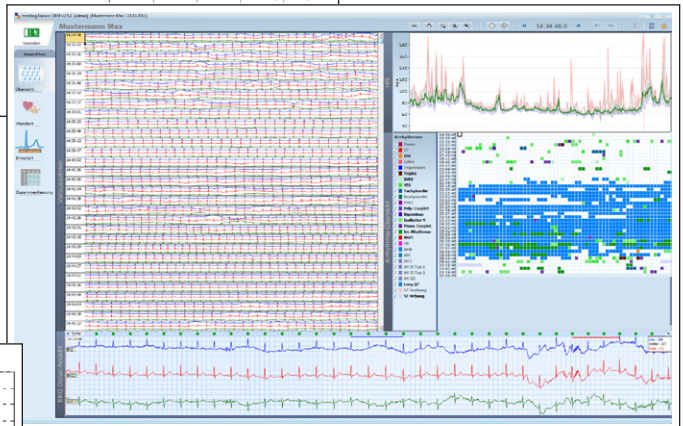
Blood pressure report



- Continuous 24 hour blood pressure profile
- Analysis of ABP levels
- Detection of NBPF™ (Nocturnal Blood Pressure Fluctuations) as an indicator for cardiac stress
- Determination of the superposition effect of the blood pressure
- Clear sleep/wake allocation by actigraphy***

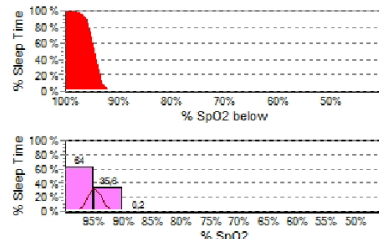
ECG report

- ECG Holter Analysis with Schiller Software Plug-in: Arrhythmia analysis and ST segment measurement (optional, sold separately)
- Stress report based on HRV



O2 saturation

	Number (Index)	Time
Number of Desaturations	69 (8,3)	
Minimal SpO2 (%)	86	06:39:06
Baseline O2 saturation	95	
Average SpO2	95	
Number < 90 %	8	0,6 %
Number < 80 %	-	0,0 %
Time < 90 %	0,2 %	00:00:48
Biggest Desaturation (%)	10	06:37:33
Average Desaturation Time (s)	24,9	
Longest Desaturation (s)	81,8	07:34:55
Average Mn. Desaturation	92	
Deepest Desaturation (%)	86	06:39:06
Sum all desaturation	00:28:41	5,7 %
Average SpO2 Delay (s)	-	
Artefact (min)	-	



Oximetry report

- Display of the blood Oxygen saturation and the correlation between nocturnal SpO₂ and nocturnal blood pressure
- Detection of respiratory based changes of the blood pressure (optional)

Datasheet SOMNouch™ NIBP

22 channels

- 6 internal (Body position, movement, SpO₂, pulse rate, plethysmography, patient marker)
- 2 AUX - up to 8 channels per external connector (e.g.: 3 channel ECG, flow, snore, blood pressure calibration)

Data collection / Data transfer

- Data transfer via Bluetooth, wireless data transfer in realtime
- 12 bit signal resolution
- Individually adjustable recording rate from 4/s to 512/s

Data storage

- internal data storage, 512 MB capacity
- Charging and data transfer via docking station

Size and weight

- 74 x 55 x 16 mm, 58g (incl. battery)

Display

- high resolution, color touch display, resolution 320 x 240 pixels

Power supply

- Li-Ion-battery (rechargeable), up to 26 hrs. recording duration

Analysis software DOMINO light

* Patent numbers: DE 102005014048.3-35, EP 20060001181.4-1526, US 11/364 174 US 2006/0217616 A1, 7374542

** Bilo, G., Parati, G. et al., Validation of the SOMNOtouch™ NIBP non-invasive continuous blood pressure monitor according to the European Society of Hypertension International Protocol revision 2010. Blood Pressure Monitoring. 2015

*** Dick, R., et al., AASM standards of practice compliant validation [...] Physiological measurement, 2010. 31(12): p. 1623-33

This brochure is intended for the USA market only



SOMNOmedics GmbH • Am Sonnenstuhl 63 • 97236 Randersacker • Germany
Tel: +49-931/3590940 • info@somnomedics.eu • www.somnomedics.eu