

SOMNOcheck effort

Diagnostic and Therapy Monitoring System for Sleep-Related Breathing Disorders

SOMNOcheck effort is an outpatient device for sleep apnea diagnosis and therapy monitoring. The software offers programmable recording periods, fast data transmission, automatic analysis with manual override and selectable analysis criteria. The device captures all required parameters of SpO₂, cardiac rate, position, respiration and respiratory movements in chest and abdomen. It recognizes central and obstructive apnea and fulfills all the requirements of EBM 2000 plus Nr. 30900.



SOMNOcheck effort, WM 94200



Polygraphy with standard recording



Therapy Monitoring

Measurement parameters

- Respiratory flow and snoring with combo-sensor consisting of thermistor and microphone
- Respiratory flow and snoring with nasal cannula
- Cardiac rate
- Oxygen saturation
- Position
- Thoracic and abdominal movements
- CPAP pressure

Analysis

- Apnea and hypopnea
- Oxygen desaturation
- Cardiac rate variations
- Associated events
- Obstructive and central apnea
- Manual override of automatic analysis

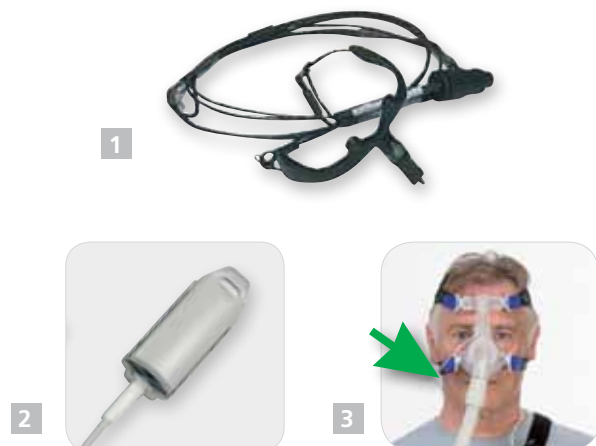
Quick and easy application

- Convenient Velcro (TM) and plug-in connections
- Combo-sensor to prevent incorrect application
- No external cable connections
- Respiratory flow measurement with thermistor or nasal cannula
- Connections available for varied pulse oximeter sensors

Measurement and analysis: quick and clear

- Quick, complete software package
- Extensive analytical options
- Variable analysis criteria
- Clear representation of events, search function
- Valid results; please ask for our study results.

Accessories



- 1 Respiratory Flow-Snore Sensor – WM 94010
- Respiratory Flow-Snore Nasal Cannula, package of 50 – WM 94045 (not shown)
- Respiratory Flow-Snore Nasal Cannula, package of 100 – WM 94522 (not shown)
- 2 Pulse oximeter-clip Sensor – WM 94034
- 3 Pressure Measurement Hose for Therapy Monitoring – WM 94040

Our complete range of therapy solutions, accessories and mask systems is at: www.weinmann.de

Technical Data SOMNOcheck effort



Dimensions (W x H x D):	65 x 130 x 30 mm
Device weight with rechargeable battery	about 240 g
Power supply:	7.2 V NiMH battery (WM 94051)
Operating life of battery:	about 13 hrs.
Pulse oximeter	SpO ₂ -precision with SpO ₂
■ between 85 % and 99 %	± 1.5 percentage points
■ between 75 % and 85 %:	± 2.0 percentage points
■ between 50 % and 75 %:	± 3.0 percentage points
■ Pulse rate meas. range:	30 - 250 bpm
■ Pulse precision:	± 1 %
Respiratory flow	3 thermistors as total signal or pressure signal via nasal cannula
■ during therapy:	Pressure sensor
Snoring:	Microphone in flow sensor or pressure signal via nasal cannula
■ during therapy:	Pressure sensor
Pressure (CPAP, BiLevel, SmartPAP)	
■ Measurement range:	0 - 20 hPa
■ Precision:	± 0.2 hPa
Output	
■ LED yellow:	Battery discharged or charging
■ LED green, constant:	Stand-by, sensor test
■ LED green, blinking:	Recording, data transmission
■ Tone:	Sensor loss (adjustable)
■ Memory:	integrated, data reception without power supply, capacity of 13 hrs.
■ Charging:	Quick-charge, max. 120 mins.
■ Data port:	RS232 to PC with charger (WM 94060)

System Requirements

Hardware:	IBM-compatible computer 386 or higher, Recommended: Pentium Processor
Operating system:	Windows 3.1 or 3.11, Windows 95, 98, ME Windows NT Workstation 3.51 (SP5 or higher), Windows NT Workstation 4.0 (SP3 or higher), Windows 2000, Windows XP, Windows 7 Ultimate, 32 bit
Hard disk:	Hard disk with at least 25 MB available memory for installation
Main memory:	16 MB RAM, Recommended: 32 MB RAM
Drive:	CD-ROM drive
Monitor:	15", recommended: 17"
Graphics board:	Supported by MS Windows, with VGA resolution or higher, Recommended: 1024 x 768 resolution
Interface:	Free serial (COM-) interface RS232
Pointing device:	Mouse or other pointer

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