SOMNOmedics
SOMNOtouch™ RESP

OUR BIGGEST IDEAS IN OUR SMALLEST SLEEP DIAGNOSTIC DEVICE

Touch screen display

Allows PC independent set-up & signal quality check at the patient's bedside

Small compact design

Same footprint as a credit card allowing unparalleled comfort. ONLY 2.3 oz!

Intelligent Connect™

Automatic sensor recognition – making montages a thing of the past

ACTUAL SIZE

Snore
Flow
Thorax
Abdomen
20s   HR 58   SpO2 98%

2.2 inches

3.3 inches

Modular & upgradable

With 11 internal channels and an additional 4 channels per AUX connector - it i s even upgradable to a PSG

Low running costs

Re-usable sensors and minimal disposables. Built-in Li-Ion rechargeable battery

SOMNO medics

Made in Germany   FDA approved for adults only

The **SOMNOtouch™ RESP** combines the comfort, function and power of much larger sleep diagnostic devices but in a small, perfectly formed size. At only 2.3 oz and 3.3 x 2.2 x 0.7 inches, it is one of the lightest, most modular and powerful screening devices on the market today.

Color Touch Screen

- ◆ Start the data recording on the device
- ◆ ˝Intelligent connect˝ identifies attached sensors
- ◆ Signal check on the screen
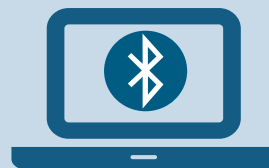- ◆ Zoom to a selectable time base
- ◆ Easy to use interface

Versatility – In a Compact Design

- ◆ Basic respiratory screening
- ◆ CPAP/BiPAP/SV/ASV titration
- ◆ Upgradable to PSG with video
- ◆ Minimal costs per measurement
- ◆ Configurable for many reimbursement systems

Mobile Check

Save time and money by getting a screenshot of the recording for a signal check to your PC, tablet or smartphone – ideal for ambulatory applications to ensure the study is running smoothly.

Sleep lab

Patient's home

Video camera optional

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Automatic free updates for life

Intelligent Connect™

- ◆ Automatic sensor recognition - no montages required
- ◆ Save time with freely selectable channels
- ◆ Icons help to easily identify sensors

Docking Station & Software

- ◆ 60 min fast charge for an 8 h PG recording (approx.)
- ◆ Quick data transfer (Approx. 60 s for a full night's PG study)
- ◆ PC interface – graphic-based control
- ◆ Powerful DOMINO light software
- ◆ Manual and semi-automatic scoring available

A small example of the available sleep reports

Respiratory Analysis

	Number (Index)					Sleep
Obstructive	144 (22,1)	Apnoea (Index)	-	-	351 (53,7)
Mixed	96 (14,7)	Hypopnoea (Index)	-	-	83 (12,7)
Central	111 (17,0)	AHI (/h)	-	-	66,5
Undef A.	-	Flow Limitations (Index)	-	-	-
Total Apn.	351 (53,7)	Max. Apnoea Duration (s)	-	-	58
Hypopnoea	83 (12,7)	Max. Hypopnoea Duration (s)	-	-	89
A+H	434 (66,5)	Average Apnoea Dur. (s)	-	-	25,2
Limitations	-	Average Hypopnoea Dur. (s)	-	-	23,7
RDI	434 (66,5)	Artefact (min)	-	-	-

Position	Supine	not Supine	Left	Right	Prone	Upright
Sleep Time Fraction (%)	100,0	-	-	-	-	
Total Events (Index)	434 (66,5)	-	-	-	-	
Obstr. Apnoea (Index)	144 (22,1)	-	-	-	-	

Heart Rate

	Sleep	Wake
Acceleration (Index)	52 (7,5)	2 (3,5)
Deceleration (Index)	49 (7,1)	3 (5,3)
Arrhythmia (Index)	-	-
Maximum HR (bpm)	96 (22:22:45)	88 (23:37:02)
Minimum HR (bpm)	50 (03:14:23)	61 (23:33:23)
Average HR (bpm)	72	74
Wide QRS tachy (Index)	-	-

O2 saturation

	Number (Index)	Time
Number of Desaturations	427 (65,7)	
Minimal SpO2 (%)	85	02:49:14
Baseline O2 saturation	96	
Average SpO2	95	
Number < 90 %	146	13,6 %
Number < 80 %	-	0,0 %
Time < 90 %	6,6 %	00:25:44
Biggest Desaturation (%)	14	03:03:01
Average Desaturation [%]	5,9	19 s

DOMINO light Sleep Diagnostic Software

Not only does it pack all the standard sleep related functions but a staggering array of features and benefits that will suit even the most discerning sleep laboratory.

Visit **www.somnomedics.com** for more information.

Snore Analysis

	All	Prone	Supine	Left	Right	Upright
Snore (Index)	89 (13,3)	-	81 (12,3)	-	-	8 (80,
Absolute Snore (min)	0,9	-	0,8	-	-	0
Snore Episodes (min)	0,7	-	0,6	-	-	0

Snore Epis. (% Sleep Time)   0,2

Sleep/Wake

Total Sleep Time (TST)	06:54:49	% Sleep Time	92,4
Sleep efficiency (%)	92,4	% Wake Time	7,6
Sleep Latency [m]	0,0		

Overview

Color Touch Display

Docking Station Connector

2 External Sensor Plugs: With up to 8 channels each

Built-in Body Position Activity Sensor & Thorax Effort

Marker Button for Interesting Events

SpO₂ Connector

Flow/Snore Connector

FDA approved for adults only

25 Channels   **12 Bit**

Technical Specifications

Data collection
Data transfer via USB, 12 Bit signal resolution. Individually adjustable sample rate from 4 Hz to 512 Hz

Data storage
Internal data storage, 512 MB capacity. Charging and data transfer via docking station

Size and weight
3.3 x 2.2 x 0.7 inches, 2.3 oz (incl. battery)

Display
High resolution, color touch display, 320 x 240 pixels

Power supply
Li-Ion battery (rechargeable), up to 18 hours recording duration (as screener)

Analysis software
DOMINO light

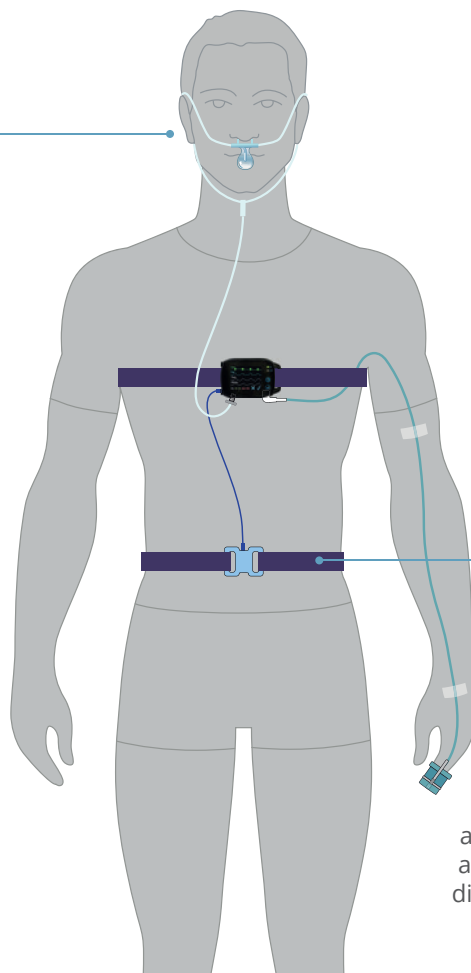# SOMNOtouch™ RESP - Home sleep testing configuration

Respiratory

Flow and snore can be recorded with an optional disposable nasal-oral cannula - together with flow linearization in DOMINO light software, allows high sensitivity and specificity in detecting respiratory events – without a thermistor.

Add video to your home sleep test

A full range of both offline or online video options is available in the PSG configuration. More information is available in our SOMNOtouch™ PSG brochure.

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Sleep staging

Use the built-in body position and activity sensor or add the simplified sleep staging sensor to quantify sleep stages. An AASM headbox is also available.

Combi-sensors available

Upgrade your sleep screener to a PSG by adding PLM and ECG sensors.

Arousals

Arousal scoring based on the ability to pick up the reaction of the autonomic nervous system to sleep disturbances in the plethysmogram.

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SOMNOtouch™ RESP Signal and Sensor Options

INTEGRATED	OPTIONAL SENSORS		
Body position	**SLEEP STAGING OPTIONS**		
Movement	AASM Headbox - 10 EXG (6 x EEG/EOG, 1 x EMG/ECG)		Simplified Sleep Staging (Light, 1 x EEG, 2 x EOG)
SpO$_2$	**SLEEP LAB SENSOR OPTIONS**		
Pulse rate	Second effort belt	Pneumotachograph	2 x PLM sensor
Plethysmogram	1 channel ECG	Sidestream CO$_2$	Transcutaneous CO$_2$
Thorax	**COMBI SENSORS (sensors connected in combination)**		
Pressure flow	Effort + 1 x PLM	Effort + 2 x PLM	Effort + 2 x PLM + 1 x ECG
Snoring via pressure sensor	**ONLINE (IN-LAB) OPTIONS**		
CPAP pressure	Bedside signal check	Wireless transfer to PC	Intercom
	Infrared Camera	Pan-Tilt-Zoom Camera (IR)	HD video (IR)
Patient marker	**EXCLUSIVE TO SOMNOmedics**		
	Home Sleep Camera (offline video at home)		
Intelligent power management	**SPECIAL OPTIONS**		
	Connect 1-4 external devices/signals		

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