

# SleepDoc Porti® 9

Custom Made Sleep Diagnosis

For more than 45 years Dr. Fenyves and Gut is a reliable partner for medical diagnosis.

Now we present the consistent further development of the well-proven SleepDoc Porti® 7 – the new SleepDoc Porti® 9

The compact device is suitable especially for outpatient use for the detection of sleep-related breathing disorders and therapy control.

All hardware and signal recording components are integrated in the device – well protected against damage.



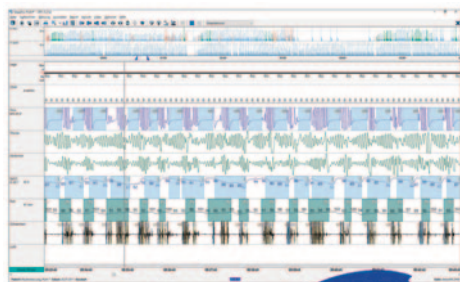
## 12 Channels – great performance!

SleepDoc Porti 9 offers 12 channels for the following recording options:

<b>Flow</b>	Economical nasal cannulas as consumables, breathing measurement with pressure sensor, even while CPAP therapy
<b>Thermistor</b>	Additional or alternative recording of breathing via thermistor
<b>Thoracic Effort</b>	Pressure pads integrated in the chest belt
<b>Abdominal Effort</b>	Pressure pad integrated in the abdomen belt
<b>SpO2 Saturation</b>	Integrated pulse oximeter using a soft-tip finger sensor for long-term measurement
<b>Pulse Frequency</b>	Detection via finger sensor
<b>Pulse Wave</b>	Detection via finger sensor
<b>Snoring</b>	Built-in internal microphone, external microphone is not required
<b>Position</b>	Position sensor integrated in the device
<b>Light Sensor</b>	The internal light sensor allows continuous monitoring of brightness of the sleeping environment
<b>CPAP/Bi-level-Pressure</b>	Continuous monitoring of the absolute pressure in pressure-ventilated patients (e.g. CPAP- or Bi-level-therapy)
<b>Actimeter</b>	Integrated in the device

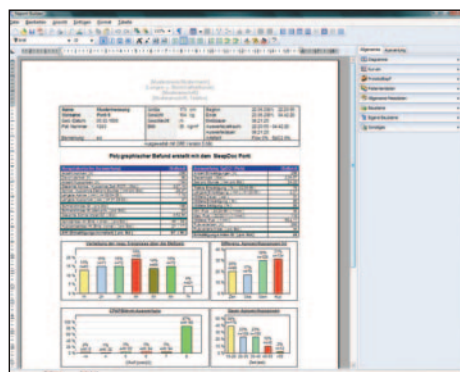
# Analysis and Diagnosis Made Easy

- The measurement curves and results are clearly displayed already on the screen



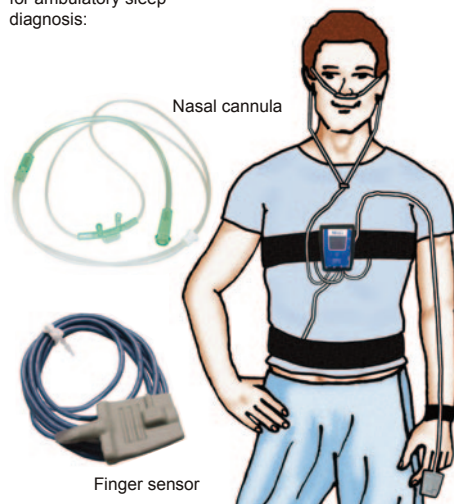
**Flexible Software!**

- Flexible parameter control for the user
- Automatic event detection with manual editing option
- Quick, automatic and individual report generation (by request only one page)



Robust sensors specifically developed for ambulatory sleep diagnosis:

Strapped to the body by elastic chest strap



- Built-in reporting routine with text modules, field functions, template functions
- Freely configurable report/doctor's letter with various export functions (e.g. PDF)
- Online display of all parameters on the screen
- Integration into networks possible, incl. data transmission via internet
- Continuous software maintenance and further development
- **Free analysis software updates for lifetime!**

## Economical

Low follow-up costs (1 EUR per measurement). Cost-effective and robust sensors. Low effort for training and evaluation. Lifetime warranty extension with regular maintenance.

## Functional

Up to 12 channels. High-resolution signals. Incl. outpatient CPAP or Bi-level therapy controls. Integrated battery display and signal control in the colour display of the unit.

## Easy to use

Simple handling for the patient and medical staff. Only 3 sensors to apply for standard screening (nasal cannula, finger sensor, abdomen belt). The remaining sensors are protected in the device.



Clear and robust connectors

### Technical specifications Last update 03/21

Dimensions	90 mm x 66 mm x 29 mm (L x W x H)
Weight	135 g including storage battery
Housing	Plastic (ABS, UL 94HB)
Temp. range	+ 5°C...+ 40°C
Moisture	10 % – 90 %
Atmos. Pressure	70kPa – 106kPa
Storage media	Internal SD card
Storage	min. 100 hours

### Registered parameters

Respiratory activity	Differential pressure measurement via nasal cannula (with adapter also during CPAP therapy), alternative or additional measurement by means of thermistor possible
Thoracic effort	Pressure difference measurement on the thorax via integrated rubber pads in the chest strap
Abdominal effort	Differential pressure measurement on Abdomen via rubber pad integrated in the abdomen strap

Breathing sounds	Phonometric transducer via nasal cannula
SpO2/Pulse	Built-in pulse oximeter SpO2 measurement range: 80 % - 100 % ± 2 % SpO2 60 % - 79 % ± 4 % SpO2 Pulse measurement range: 50 1/min - 150 1/min ± 2 % rubber-coated thimble finger sensor
Pulse wave	Plethysmogramm display; measurement via finger sensor
Position	Acceleration sensor for position measurement (5 positions)
Ambient Light	Photometric measurement and light-Intensity display
Pressure	Pressure difference measurement directly at the CPAP mask Measuring range: 0 cm H2O - 45 cm H2O ± 5 %
Actimeter	Actimeter for recording of patient activity

Fault indicator	Display on the top of the device
Bluetooth interface	Operating Frequency: 2.45 GHz Modulation: BT Low Energy 5 RF Output power: 5 dBm max.
Power supply	Rechargeable Li-Ion storage battery with charging electronics and protective circuit
Charger	plug-in power supply with medical approval
Output	USB interface with cable for standard USB connection for data transmission
Power consumption	approx. 85 mA

### System requirements

PC with Windows 10 or higher, USB interface

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