

Sleep diagnostics systems





PORTI[®] SLEEP DOC

DeVilbiss Healthcare introduces the SleepDoc Porti diagnostics systems powered by the technology and expertise of Dr Fenyves und Gut.

From a 5 channel respiratory screener up to a full 38 channel polysomnograph the Porti systems are ideal for home or hospital use. They are inexpensive to use due to the low cost of consumables and use the same analysis and reporting software for all devices. The Porti range is the ideal solution for the developing sleep service.

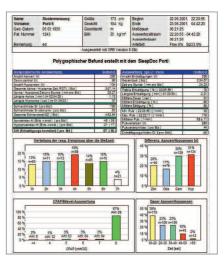
Porti Family Features:

- Low running costs due to inexpensive consumables
- Optional extended warranty through our regular service program
- Built in rechargeable battery to ensure low running costs
- Simple to operate for both patients and clinical staff
- Unique thorax and abdomen belt technology using robust accurate pressure sensors, thus removing the need for expensive specialist belts
- Removable pressure sensors in the belts, which allows them to be effectively cleaned (machine washable)
- Internal battery charges fully in 2 hours – a fully charged battery will record for 16 hours

Software Features

The analysis and reporting software is extremely comprehensive, yet easy to understand. Its flexibility, allowing the user to determine the parameters, the content and design of the reports means the software can be customised to fit the needs of the sleep laboratory.

- All SleepDoc Porti systems use the same software, consumables and sensors
- Quick evaluation of reports and data
- Fully automatic evaluation, diagnosis
- and report generationManual editing options
- Easy configuration of raw data and final reports
- Flexible parameter control for the clinician
- Quick and easy report generator
- Integration into network
- Option for data to be sent by e-mail
- Data import and export via the internet



Complete automatic report generation.

MiniPorti

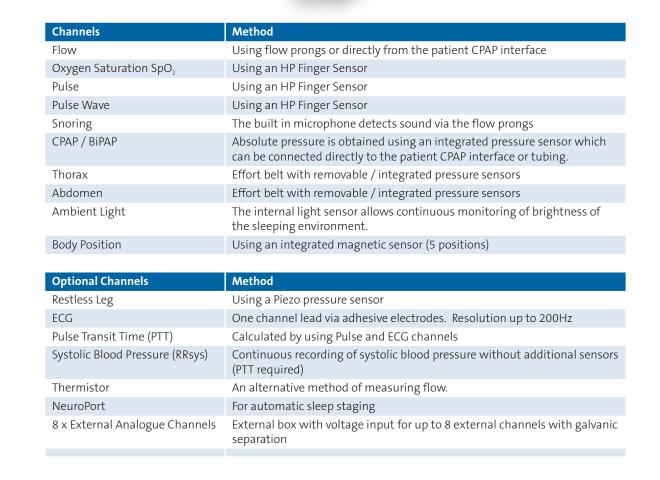
The SleepDoc Mini Porti is the first in the range of respiratory screeners from Dr Fenyves und Gut. It is ideal for home or hospital use and for those physicians that require more than simple pulse oximetry. It has five channels measuring the following:

Channels	Method
Flow	Using flow prongs or directly from the patient CPAP interface.
Oxygen Saturation SpO_2	Using a HP Finger Sensor
Pulse	Using a HP Finger Sensor
Snoring	The built in microphone detects sound via the flow prongs
CPAP / BiPAP	Absolute pressure is obtained using an integrated pressure sensor which can be connected directly to the patient CPAP interface or tubing.

Porti 7

The Porti 7 is an ideal diagnostic tool for the identification of sleep disordered breathing, for use at home or in hospital. It comes as standard with 10 channels, but with the option of extending up to 24 channels. Porti 7 additional features include:

- Fast direct download via USB connection.
- No memory card required, all patient data is stored in the internal memory.
- Visual battery check on front of unit. LED's show the remaining battery life.
- No ON/OFF switch, uses an automatic start via programming in the Porti software. Can program up to 6 nights of start/finish times.





Porti 8

The Porti 8 is a modular system that caters for all; it may be used as a simple ambulatory screening device to a complete polysomnography application with up to 38 channels. With its small ergonomic profile the Porti 8 has been designed for optimum patient comfort and can be easily applied by the patient. The channels that are recorded by the Porti 8 are:



Channels	Method
Flow	Using flow prongs or directly from the patient CPAP interface
Oxygen Saturation SpO ₂	Using an HP finger sensor
Pulse Frequency	Using an HP finger sensor
Pulse Wave	Using an HP finger sensor
Snoring	The built in microphone detects sound via the flow prongs
CPAP / BiPAP	Absolute pressure is obtained using an integrated pressure sensor which can be con- nected directly to the patient CPAP interface or tubing.
Thorax	Effort belt with removable / integrated pressure sensors
Abdomen	Effort belt with removable / integrated pressure sensors
Body Position	Using an integrated magnetic sensor
Light Sensor	The internal light sensor allows continuous monitoring of the brightness of the sleep- ing environment.

Optional Channels	Method
2 x Leg Movement (EMG)	Separate recordings for right and left legs is possible
6 x ECG	Six channel lead via adhesive electrodes. Resolution up to 200 Hz
Pulse Transit Time (PTT)	Calculated by using Pulse and ECG channels
Systolic Blood Pressure (RRsys)	Continuous recording of systolic blood pressure without additional sensors (PTT required)
NeuroPort	Special electrode for frontal lead with fully automatic sleep staging
6 x EEG	Six channel lead via adhesive electrodes.
2 x EOG	Two channel lead for eye movement (both eyes) using adhesive electrodes
1 x EMG	One channel lead of muscular movement from chin
8 x External Channels	External box with voltage input for up to 8 external channels with galvanic separation
Audio / Video	



Thorax belt with two removable pressure pads



Inexpensive flow sensor for recording respiration and snoring



The reusable HP SpO_2 sensor finger cuff is durable and comfortable for the patient

MiniPorti



Porti 7



Porti 8



Robust, colour coded connectors



ECG leads





S P E C I F I C A T I O N S

Dimensions (I	H x W x D)
Miniporti	30.5 x 62.7 x 140 mm
Porti 7	30.5 x 62.7 x 140 mm
Porti 8	35 x 75 x 168 mm
Weight (inclu	ding battery)
Miniporti	155 g
Porti 7	160 g
Porti 8	260 g
Storage medi	um
Miniporti	MultiMedia Card
Porti 7	Internal Flash memory
	Internal Flash memory

Measurement range SpO₂ 99% to 80% (± 2%) / 79% to 60% (± 4%)

Measurement range Pulse 501/min-150 1/min (± 2%)

P٥١	ver	sup	ply	

MiniPorti	NiMH batt	ery 3.6 V / 950 mAh
Porti 7		3 V Li-ION Battery
Porti 8		3 V Li-ION Battery
Temperati	ire range	+15°C to +45°C
Humidity		60 % to 80 %
Fault indic	ator	2 LEDs (front)



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Comparison chart of the Porti devices

Channels	MiniPorti	Porti 7	Porti 8
Flow (using a flow prong, even during CPAP therapy)			
Flow (by means of thermistor)	×		
Oxygen saturation SpO ₂			
Pulse			
Thorax effort (sensor integrated in chest strap)	×		
Abdomen effort	×		
Obstruction and phase shift	×		
Snoring (microphone integrated in the basic unit)			
Position (magnetic sensor in the instrument)	×		
CPAP / BIPAP (to obtain absolute pressure during CPAP therapy)			
Neuroport (EEG, automatic sleeping stage classification)	×		
Leg movement (Restless leg, single or double)	×		
ECG (resolution up to 200 Hz) and central heart frequency	×		
PTT Pulse Transit Time	×		
Systolic Blood Pressure	×		
Interface for external Analog Input	×		
Neurology (6 x EEG, 2 x EOG, Chin EMG)	×	×	
Pulse wave (Plethysmogram)	×		
Ambient light	×		
Video interface (Online measurements)			
Available in the unit 🛛 Available as an option 🗱 Not available			

PC System Requirements: PC with Pentium processor or higher · Microsoft Windows 98 SE/ME/NT/2000/XP/

Vista · Hard disk with at least 100 MB free storage · CD-drive · Mouse · Free serial port or USB port · Printer

Distributor: