

SleepRT PSG: technical specifications

SleepRT PSG system with Morpheus



Figure 1: Morpheus recorder

REF		THOR		P _{diff}		P _{gage}		OXI	
G1	G2	DC1-2	ABDO	13	14	15	16	17	18
13	14	15	16	17	18	19	20	21	22
13	14	15	16	17	18	19	20	21	22
1	2	3	4	5	6	7	8	9	10



Figure 2: Channel Overview Morpheus

Recording channels

34 recording channels: max 24 EXG channels.

- 12 Common Reference EXG Channels
- 12 User Selectable Bipolar / Common Reference
- 2 DC Channels
- 2 Respiratory Inductive Bands Effort Channels (built-in)
- 2 Flow Pressure Channels (built-in) with Differential and Gauge Plugs
- Embedded Body Position Channel
- 3 Digital Channels for SpO₂ , Beat and Pulse

Dimensions and weight

Compact design: very small size and weight

- only 11 x 8 x 3 cm
- < 250 gr



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Recording characteristics:

- Noise Lower than 0,1 μ Vrms @ 128 Hz
- 16 bit Analog/Digital Conversion
- 8192 KHz Hardware Sampling Rate
- 512 to 128 Samples/sec. Stored in the Flash Memory

Large Graphical LCD Display showing:

- Impedance Measurement (Graphs and Numerical)
- Patient Information
- All Recorder Settings
- Signal Data for Visual Inspection

Data Transfer for On-Line Direct Acquisition

There are two options:

- USB Interface to SleepRT acquisition computer via USB cable
- Bluetooth **Wireless** Connection

Ambulatory acquisition

Signal storage on extractible Compact Flash Card Memory for ambulatory 24 hours recordings.

Ambulatory video

Recording of synchronised Digital Video in combination with a Laptop PC

Other features

- Protection Bag with possibility to lock the case
- Battery powered with 2 "AA" batteries lasting up to 24 hours

Morpheus standard



Figure 3: Morpheus standard

DC Isolation box



Figure 4: DC isolation box

Features

Isolated DC box for recording 2 DC channels.

Powered by 2 AAA batteries.

Connection for SaO2 sensor

DC cable (not isolated)



Figure 5: Cable for 2 DC channels (not isolated)

Features

2 DC channels connection

Safety DIN connectors: 2 referential channels (2 entries), 1 common reference

Not isolated, powered by Morpheus recorder