

## Technical Data

### Signal recording

Snoring sounds, respiratory flow, battery, blood oxygen saturation, pulse frequency

### Scanning rates for the channels

Respiratory flow / snoring sounds: 100 Hz  
Battery: 1 Hz  
Blood oxygen saturation: 1 Hz  
Pulse frequency: 1 Hz

### Signal processing

Signal recording: 20 Bit  
Signal storage: 16 Bit

### Internal memory

Storage capacity: 15 MB  
Recording duration: at least 10 hours

### Power supply in the recorder

2 Ni-MH rechargeable batteries:  
Mignon / AA / 1.2 V / at least 2.1 Ah  
or 2 batteries  
LR 6 / Mignon / AA / 1.5 V / at least 2.1 Ah

### Recorder dimensions

125 mm x 60 mm x 30 mm  
(length x width x height)

### Weight of recorder

Approx. 50 g (without batteries or rechargeable batteries)

### Operating conditions

Temperature: 20°C – 40°C  
Humidity: 10% – 90% RH

### Transport/storage conditions

Temperature: -20°C to +50°C  
Humidity: 10% – 90% RH  
(recorder without batteries or rechargeable batteries)

### Operating/storage air pressure

800 hPa – 1060 hPa

### Flow sensor

Measurement range: -10 hPa to +10 hPa

### Interfaces

Nasal pressure cannula: Luer connector  
Computer: Fullspeed USB 1.1  
Oximeter: serial connector

### Items supplied—ApneaLink basic set

- ApneaLink recorder
- Nasal pressure cannulas (3 pieces)
- Installation and driver CD
- Clinical Manual and Patient Information (on CD)
- System User Instructions for medical staff
- Batteries, 1.5 V Mignon (2 pieces)
- Belt (for attaching the recorder)
- USB cable
- Carry bag
- Luer lock caps (10 pieces)

### ApneaLink oximetry accessories

ApneaLink oximeter  
Disposable finger pulse sensors (3 pieces)  
Fastening clip for oximeter

### Standards

DIN EN 60601-1  
General specification for the safety of medical electric devices  
DIN EN 60601-1-2  
Supplement: electromagnetic compatibility

### CE labelling

CE labelling in accordance with class IIa pursuant to EC Directive 93/42/EEC

### Quality Management

Development, manufacture, sale and service certified in accordance with ISO 9001:2000 / EN 13485 quality management principles

### Find out how ApneaLink can work for you and your patients

Contact your ResMed representative or refer to the website [www.resmed.com](http://www.resmed.com)

## ApneaLink™



Bringing sleep apnea out of the dark

## ApneaLink—easy sleep apnea screening

### Sleep apnea—a ‘hidden epidemic’ for too long

Sleep apnea has been silently troubling millions of people worldwide. Obstructive sleep apnea (OSA) is one of the most common forms of sleep-disordered breathing (SDB). SDB affects not only patients’ sleep, but their waking lives, health and safety. The risks are multiplied for patients with hypertension, cardiac problems and diabetes.

### ApneaLink—identify those who are most at risk

- Easy and accurate
- Comfortable and convenient
- Simple reporting with graphic risk indicators
- Optional oximetry

### Which patients need to be screened?

A range of symptoms and comorbidities may accompany SDB.

- Loud irregular snoring
- Pronounced daytime fatigue and drowsiness
- Impaired concentration and irritability
- Hypertension
- Stroke
- Diabetes Mellitus Type II
- Erectile dysfunction

### Easy for healthcare professionals to use

- Connect ApneaLink to your PC and enter patient information.
- Give ApneaLink to the patient to use at home overnight.
- Download overnight data direct to your PC.
- Print out the easy-to-read report.

### Easy for patients to use in the comfort of their own home

- Worn like a belt, around the chest area
- Lightweight, does not disrupt sleep
- Easy to use, attach and detach

### Untreated SDB—the consequences

- One out of 20 adults suffer from SDB<sup>1</sup>.
- A significant percentage remain untreated.
- 9.1% of work-related injuries are attributed to sleep disorders<sup>2</sup> and people with untreated sleep apnea are at increased risk of a workplace accident.
- SDB is associated with serious comorbidities such as hypertension, cardiac problems and diabetes.

1 Young T, Peppard P, et al. Epidemiology of OSA. *Am J Respir Crit Care Med* 2002, 165:1217-35  
 2 Wake up Australia: the value of healthy sleep. Report by Access Economics Pty Ltd for Sleep Health Australia; 2005

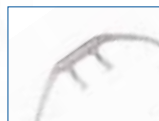
### SDB screening with ApneaLink—with or without oximetry



Light, compact and wearable



Optional sensor for pulse oximetry



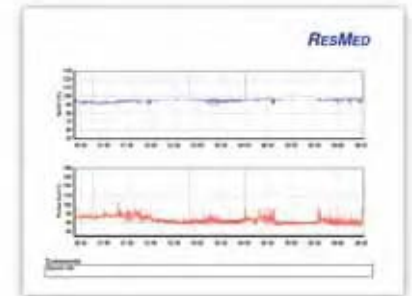
Nasal cannula assesses respiratory flow

## Quick and easy reporting and assessment



### Automatic reporting—all the results on a single page

The standard one-page report includes the graphic risk indicator for at-a-glance results, as well as details of the respiratory flow analysis and, when applicable, the pulse and oximetry analysis.



### Extended reporting—pulse and oximetry data for detailed assessment

The report can be easily configured to include a second page with pulse and oxygen saturation information.



### Raw data captures abnormal breathing pattern

Data for the entire night or recording session

Orange sections indicate snoring

Close-up view of data for a 5-minute segment

Hypopnea

Apnea