

Sleep Diagnostics

A breath of fresh air

Acumen 7 from RESPiRE is a portable cardio-respiratory sleep diagnostic device, specifically designed to facilitate sleep tests in the comfort and privacy of the patient's own home.

Portable...

The compactness of Acumen 7 means it can be employed just as easily in the patient's home as in the sleep laboratory. The sensors plug directly into the recorder, giving patients more freedom, and therefore more accurate readings.

Convenient...

For ultimate convenience, Acumen 7 can be linked to the RESPiRE Curasa CPAP machine for patient management solutions.

Simple...

Acumen 7 provides extensive, detailed and accurate clinical data, simply downloadable by USB connection to your PC. However, simple as it is to use, the comprehensive on-screen scoring and diagnostic report software does not miss anything.

Training...

Although Acumen 7 is very easy to use, we provide a full training programme for clinicians, to ensure absolute confidence before use.

Data collection...

The device records up to 100 hours of relevant physiological data over eight channels, viewable via link to PC. The eight channels are as follows:

1. **Air flow**
2. **Snore**
3. **Chest effort**
4. **Abdomen effort**
5. **SPO2**
6. **Pulse**
7. **Body position**
8. **Battery voltage**



ORDER CODE	SIZE	DESCRIPTION
R9000	-	Acumen 7 diagnostic device, complete system
R9010	50 cm	Nasal cannula (no filter)
R9011	75 cm	Nasal cannula (no filter)
R9012	100 cm	Nasal cannula (no filter)
R9013	50 cm	Nasal cannula with filter
R9014	75 cm	Nasal cannula with filter
R9015	100 cm	Nasal cannula with filter

Acumen 7 specifications:

Data resolution	A/D 10 bits
Data sampling rate	50 to 200 Hz
Internal storage	100 hours
Dimensions	125mm x 70mm x 24mm
Weight	200g with batteries, without sensors
Oxygen saturation rate	(%SpO2) 70-100% / Accuracy \pm 2%
Pulse rate range	20-255 pulses per min / Accuracy \pm 3ppm
Body position	5 positions: up, left, right, supine, front
Snore	Integrated microphone, sound in dB
Communication ports	USB / RS232
Batteries	2 x AA, 30 hours continuous recording time
Protection against water ingress	Standard equipment, IPX0
Electromagnetic compatibility	EN 60601-1-2
CE Certification	CE 0123
Recorder housing	Recyclable material, ABS thermoplastic
Nasal cannulas	50cm without filter