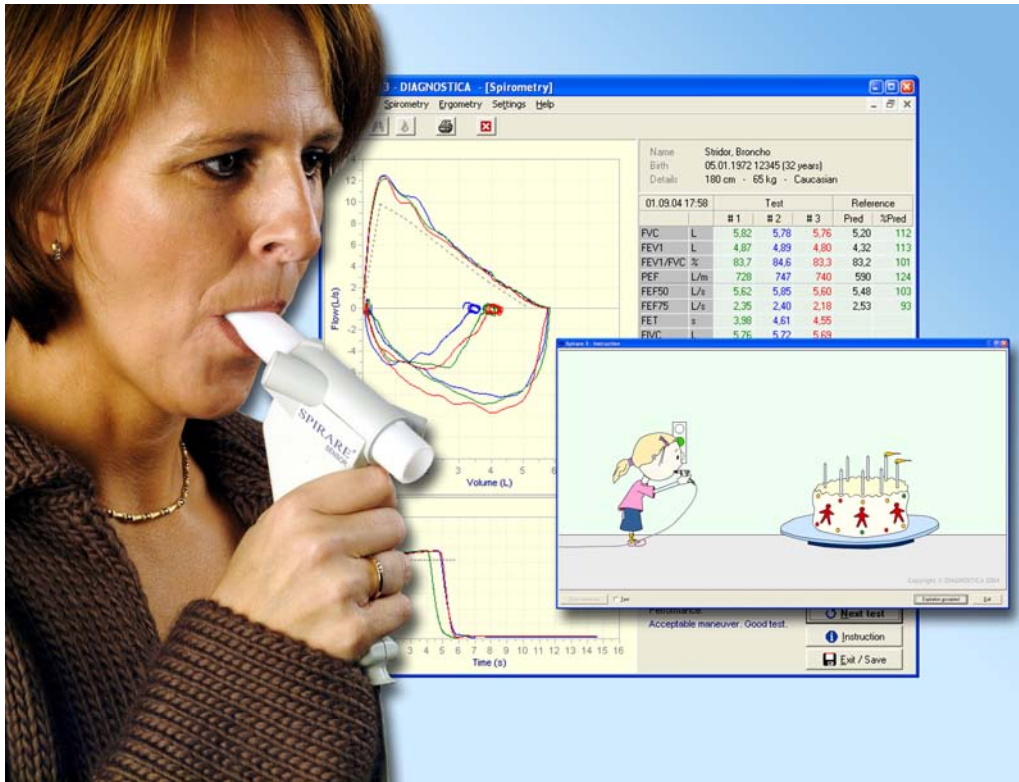


SPIRARE®



Spirometry

- Ultrasound sensor
- Quality control
- Post BD
- Bronchial challenge
- Advanced network options

Spirare is an advanced, yet simple to use system for spirometry and ECG*. Highly user friendly, it is intended for the general practitioner, but has advanced add-ons for occupational health care units, as well as specialists, outpatient clinics and hospitals.

Spirare spirometry using the SPS310 sensor offers the best in live spirometry including flow/volume loops and volume/time graphs for standard spirometric tests, post bronchodilatation and challenge tests (exercise, cold/dry air, pharmacological agents). There is also an interactive, gender-specific child incentive animation available.

Spirare follows the 2005 ATS/ERS guidelines for the standardisation of Spirometry.

Features include automatic spirometric quality evaluation, comprehensive reports and configurable trend graphs for unparalleled overview of patient history.

Exercise tests (VO₂max) using the Monark 839E ergometer are available in a separate module.

The Spirare SPS310 sensor, using bi-directional ultrasound transit time measurements, is highly accurate. The digital technology makes re-calibration obsolete, although a sensor quality control routine is included.

The spirometer is very easy to use, thanks to its portable and ergonomic design. Hygienic disposable mouthpieces prevent contamination, and fits comfortably in the mouth of both adults and children.

Standing out as an exceptionally durable and reliable spirometer, it has no moving parts. Using a standard USB connector, there is no need for any separate power supply or batteries.

Extended network functionality is available, please refer to separate fact sheet for details.

* For details regarding ECG, please refer to separate brochure.

– *Spirare necesse est!*

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Intelligent spirometry



Spirare software

Use	Stand-alone or integrated with patient journal system / electronic medical record (EPJ/HIS/EMR)
Spirometric tests	Forced/slow expiratory/inspiratory vital capacity, reversibility tests (post bronchodilatation), challenge tests (exercise, cold/dry air, pharmaceutical agents), tidal volumes. Child incentive. Maximum voluntary ventilation.
Spirometric Parameters	More than 60 available in total
System requirements	Operating system: Windows 2000/XP/2003/Vista Processor: Pentium III 500MHz or faster USB support Monitor resolution: 800 × 600 or better Free disk space: 50MB minimum (depending on no. of tests)
Database options	Standard database (1-15 users on LAN) or Client/Server database (15+ users, WAN or terminal server installations)
Supported networks	Standard database: Single workstation, LAN, Linux server with Samba Client/Server database: LAN, WAN, NT Terminal Server / Citrix MetaFrame
Supported spirometers	Spirare SPS310 ultrasonic sensor, <i>ndd</i> EasyOne and some models of MicroMedical MicroLoop / MicroLab / MicroPlus / MicroDL
Supported ergometers	Monark Ergomedic 839E
Supported ECG recorders	Spirare ECG recorder, MeditSense 100B

Spirare SPS310 sensor

Principle	PC based flow sensor with bi-directional ultrasound transit time analysis
Sampling rate	200 Hz
Connector	USB 1, type A
Dimensions	17 × 8 × 13 cm (H × W × D)
Weight (including cable and USB connector)	149 g
Accuracy	Volume: ± 3 % or 0.050 L Flow: ± 3 % or 0.020 L/s PEF: ± 5 % or 0.200 L/s MVV: ± 5 % or 5 L/min
Resolution	Volume: ≥ 1 ml/s Flow: 10 ml/s
Range	Volume: ± 12 L Flow: ± 16 L/s
Resistance	Less than 0.3 cm H ₂ O/L/s
Mouthpiece	Disposable Spirette breathing tube
Storage range:	Temperature: -20 to +50 °C Relative humidity: 0 % to 95 % Ambient pressure: 500 to 1060 hPa
Operating range:	Temperature: 0 to 40 °C Relative humidity: 0 % to 95 % Ambient pressure: 500 to 1060 hPa
Device compliance:	ATS/ERS Standards CE certificate; CSA certificate, NEMKO certificate Certified according to IEC 60601. Type BF equipment. Equipment not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.

Manufactured by:

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