



- ✓ Handy and small
- ✓ Easy operation
- ✓ Spirometry
- ✓ Flow - volume
- ✓ NO PC required
- ✓ Direct printout

The SpiroPro® conveniently measures pulmonary function parameters (FVC, FEV1, FEF25-75, PEF ...) and displays the complete Flow/Volume loop. The response to bronchodilator medication (Pre/Post) and serial spirometry measurements (Date/Time) can be used to follow patients in the office, at home or at work.

An internal spirometry evaluation LOGIC program can provide an assessment of the results for immediate clinical review.

The SpiroPro® was engineered to easily make accurate measurements in:

- Medical Office or Clinic.
- Patient Bedside or ER.
- Worksite (Occupational Asthma).
- Self administered in the Patients' Home.

The SpiroPro® uses a simple graphic/icon based user interface screen. Patient demographic

Clinical Innovations

SpiroPro® - handheld spirometer

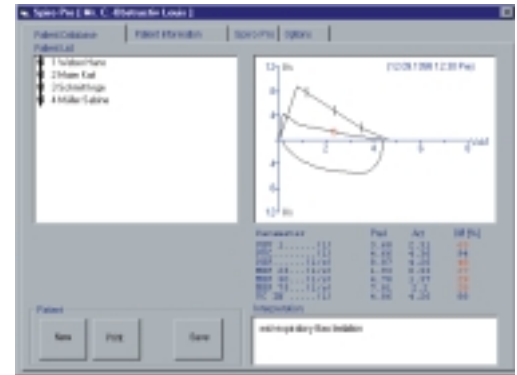


Touch-sensitive screen

data can be entered, including alphanumeric data, using the touch screen. Picture based navigation and the logical menu structure make data entry, collection of spirometry data and the viewing or printing of tabular and graphic results simple. The SpiroPro® can easily maintain multiple patient files with multiple spirometry records for each patient in the integrated on-board database.

The SpiroPro® creates a Pulmonary Function Report, including a customized report heading, patient demographic information, tabular and graphic results, including reference "normal" Flow/Volume loop.

Reports can be printed directly from the SpiroPro® to a PCL compatible printer (e.g. HP Deskjet series). Data can be exchanged with a PC using the optional SpiroPro for Windows software and the serial data interface.



SpiroPro for Windows (option)

The SpiroPro® pneumotachometer is positioned within a removable sleeve that can be replaced or removed for easy disinfection. MicroGard™. Microbial Filters, can be incorporated into the spirometry testing hygiene procedure. The low power consumption and energy management systems of the SpiroPro® maintain an extended operational status when away from the supply. A user selectable "Sleep Mode" conserves the lithium battery life when not in use.

Due to continual product innovation, SensorMedics designs and specifications are subject to change without notice. Caution: Federal law restricts this device to sale by, or on the order of a physician.

System description

SpiroPro® is a complete measuring and diagnostic system for measurement, recording and assessment of the Flow/Volume parameters and Flow/Volume curve. The evaluated data can be printed directly to a PCL-compatible printer.

Control unit

A microprocessor provides input and output, acquisition, storage and analysis as well as communication with external equipment, such as printer and PC.

Technical data

| | |
|-----------------|--|
| Size: | 150x94x40 mm (HxWxD) 5.9x3.7x1.6" (HxWxD) |
| Weight: | 210 g, incl. battery |
| Battery: | 3.6 V, 1200 mA (rechargeable) |

Operation:

Approx. 10 hours of continuous operation

Principle:

High-quality pneumotachograph Serial (RS232)

Interface:

Storage capacity:

EEProm Maximal 40 patients and 120 measurements including curves

Measuring range:

| | |
|---------------|--------------|
| -PEF | 0.1 - 16 l/s |
| -FEV1 and FVC | 0.1 - 8 l |

Resolution:

| | |
|---------------|--------|
| < 5 ml | |
| -PEF | 5 ml/s |
| -FEV1 and FVC | 1 ml/s |

Accuracy:

| | |
|---------------|----------------|
| -PEF | ±3% / 0.4 l/s |
| -FEV1 and FVC | ±3% / 0.05 l/s |

Resistance:

| |
|--|
| Max. 2 kPa at 15 l/s |
| Max. 1.36 cmH ₂ O/l/s at 15 l/s |

Delivery:

- SpiroPro® unit
- 10 pneumotachs, disinfectable
- 2 nose clips
- Calibration program
- Lithium battery, 3.6 V, rechargeable
- Battery charger, 110 - 240 V, 50-60 Hz
- Printer cable
- Case

Safety

- Developed, produced and quality-controlled according to ISO 9001.



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