



medisoft®  
CARDIO-RESPIRATORY INSTRUMENTATION



## Micro 5000 / 6000 Spirometry

The ideal choice for desktop spirometry

[www.medisoft.be](http://www.medisoft.be)

# Micro 5000 Spirometry

Expandable table-top spirometry : reliability, accuracy and modularity in one compact module.  
**Micro 5000**, the **building block** of your **complete** pulmonary function lab.

Complete basic Spirometry : Or add at any time one of the below options :

Forced Vital Capacity, Slow Vital Capacity, Maximum Voluntary Ventilation and Minute Tidal Ventilation including bronchochallenge testing software.

- Small, compact module.
- High precision, reliable, accurate stable gold standard Lilly heated pneumotachograph with no moving parts - Adult pneumotachograph : flow measurement from 0 to 15 l/s.
- Low cost of operation, low maintenance.
- Expair software suite, with complete operator and patient guidance.
- Multi-flow option : choose additional Lilly pneumotachographs for Paediatrics (0 to 6 l/s) and Newborn (0 to 3 l/s).

## Bronchoprovocation and special resistance testing :

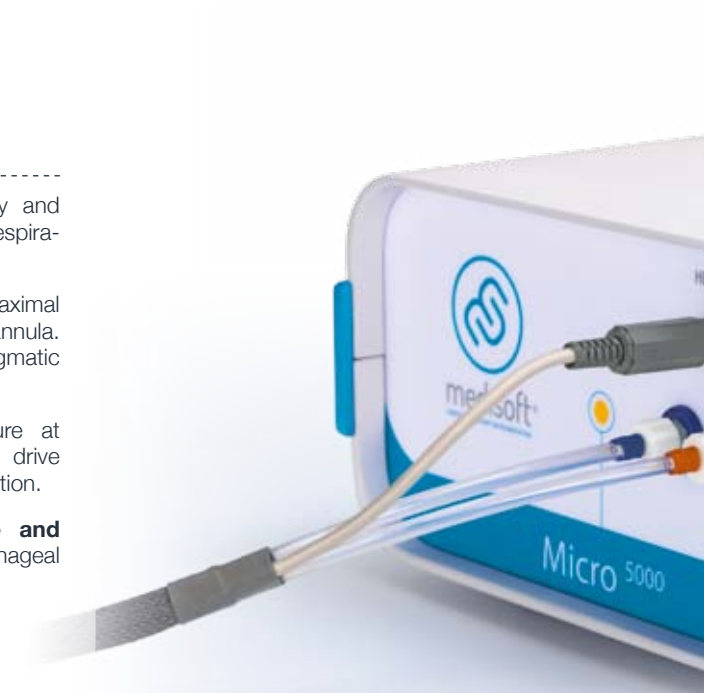
- **PROVO4 Provocation System** for automated, software controlled, accurate and safe bronchial provocation testing.
- **RINT** : resistance measurement using interrupter technique, ideal for children.
- **NEP** : this measurement (negative expiratory pressure) is an alternative method to detect expiratory flow limitation, which does not require performance of forced expiratory efforts on the part of the patient, or a body plethysmography test.

### Can be combined with the following devices:

ECG, FeNO+, FOT Resmon Pro, BodyBox, HypAir, SpiroAir, Ergocard Professional, Ergocard Clinical.

## Respiratory Mechanics testing :

- **MIP – MEP** : maximum inspiratory and expiratory pressure as an indicator of respiratory muscle strength.
- **SNIP** : measurement of the maximal nasal inspiratory pressure using a nasal cannula. A non-invasive indicator of diaphragmatic muscle fatigue.
- **P01** : inspiratory occlusion pressure at 0.1 seconds, for respiratory muscle drive evaluation, even with CO2 stimulation option.
- **Static and dynamic compliance and resistance** : measured by intra-oesophageal balloon catheters.



**Ideal for** : respiratory care departments, clinical labs, all pulmonary diagnostics, respiratory allergy assessment, pediatrics, physiology, research, occupational

# Micro 6000 Spirometry

**Micro 6000**, the **economical choice**, for basic spirometry, clinical trials or just simple office spirometry.

## Complete basic Spirometry:

Forced Vital Capacity, Slow Vital Capacity, Maximum Voluntary Ventilation and Minute Tidal Ventilation including bronchochallenge testing software.

- Includes a built-in complete weather station with pressure, temperature, humidity sensors with direct automatic reading.
- Small, compact module.
- High precision, reliable, accurate, stable gold standard Lilly heated pneumotachograph with, no moving parts.
- Low cost of operation, low maintenance
- Expair software suite, with complete operator and patient guidance.
- Low cost solution, non expandable.



### Can be combined with the following devices:

ECG, FeNO+, FOT Resmon Pro, BodyBox, HypAir, SpiroAir, Ergocard Professional, Ergocard Clinical.

## ExpAir, the Medisoft software

The most intuitive, user-friendly and complete software package available today, for all Medisoft devices.

- Advanced, data array storage allowing re-evaluation and calculation of test parameters, with export and HL7 messaging capabilities for research and integrating to Hospital systems.
- Trend tabular data reporting of any parameter.
- Interpretation function (GLi 2012 guidelines).
- Comments and offline input.
- Online data transfer.
- Report designer.
- Predicted value editor, new interpretation algorithm based on LLN, ULN, Z-score and percentile.
- Choice of languages and units of measurement.
- Bronchial challenge testing software included.
- Manual entry of blood gases.
- Full calculation function: display of calculation points with manual correction capability.
- Quality control automated software, diagnostic functions and full program control.
- Remote assistance using Teamviewer™.

**Intended users :** Medical diagnostic device, Class IIa, should only be used by doctors, physiologists, trained respiratory technicians/nurses or under supervision of such. Data obtained must be interpreted and reported by trained medical staff only.



### Technical specifications :

Physical Dimensions	Micro 5000	Micro 6000
(H x W x D) cm	13 x 19 x 29,5	9 x 15 x 18,6
Weight	± 4,2 Kg	± 1,9 Kg

<b>Power requirements :</b>	230 VAC 50 Hz or 115 VAC 60 Hz
<b>Power consumption :</b>	± 10 VA (module)
<b>Meets all electrical safety requirements :</b>	EC60601/1
<b>Classification :</b>	IIa
<b>CE MARK :</b>	CE 0029
<b>MDD :</b>	93/42/EC and harmonized standards
<b>Computer interfacing :</b>	RS-232 (Micro5000) - USB (Micro 6000) with electrical isolation

### Ambient conditions for use

<b>Temperature :</b>	10 - 35°C
<b>Relative humidity :</b>	25 to 85 % (non condensed)
<b>Barometric pressure :</b>	No restriction



A MGC Diagnostics subsidiary

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