

Medical

a subsidiary of  
VIASYS Healthcare

The new generation  
of Precision Pocket  
Spirometers



Specifications

|                         |  |
|-------------------------|--|
| <b>Measurements</b>     | FEV <sub>1</sub> , FVC, PEF, FEV <sub>1</sub> %, F50, F25, MEF, FET<br>(All measurements printed as result, %predicted, predicted and normal range)  |
| <b>Storage</b>          | Up to 500 complete data sets including the Flow/Volume & Volume/Time curve<br>(MicroDL only)   |
| <b>Predicted values</b> | Depends on version supplied  |
| <b>Printer output</b>   | Serial output for MicroGP: either Canon [cat. no. MS07C] or Hewlett Packard [cat. no. MS07HP]; serial output for MicroDL: either Canon [cat. no. MS08C] or Hewlett Packard [cat. no. MS08HP] |
| <b>Display</b>          | 3 1/2" Digit LCD with custom icons   |
| <b>Transducer</b>       | Gold Standard uni-directional Digital Volume Transducer  |
| <b>Resolution</b>       | 10ml Volume, 0.03L/S Flow  |
| <b>Accuracy</b>         | To ATS 1994 standards for diagnostic devices   |
| <b>Interface</b>        | RS232 input/output [Modem@4800 BAUD]   |
| <b>Software</b>         | Complementary Spida 5 (MicroDL only)   |
| <b>Power supply</b>     | 9 volt PP3 Alkaline cell/Lithium back-up battery   |
| <b>Battery life</b>     | Main Battery approximately 24 hours continuous use<br>Backup Battery >10 years   |
| <b>Dimensions</b>       | 170 x 70 x 60mm  |
| <b>Unit weight</b>      | 0.19Kg   |
| <b>Packed weight</b>    | 0.60Kg   |

The MicroGP and MicroDL are part of an extensive range of respiratory monitoring equipment manufactured by Micro Medical Ltd and are offered as Cat No. **MS07** (MicroGP) or Cat No. **MS08** (MicroDL). Please specify Hewlett Packard (**MS07HP/MS08HP**) or Canon (**MS07C/MS08C**) printer drivers.

Micro Medical Ltd pursues a policy of continuing improvement in design, production and performance of its products. The right is therefore reserved to vary details at any time and without notice.

Bibliography

- 1 Dirksen A, Madsen F, Pedersen OF, Vedel AM, Jensen AK. Long term performance of a hand held Spirometer. Thorax 1996;51:973-976.
- 2 Otulana BA, Higenbottam T, Ferrari L. The use of home Spirometry in detecting acute lung rejection and infection following heart-lung transplantation. Chest 1990;97:953-7.
- 3 Pollard AJ, Mason NP, Barry PW, Pollard RC, Collier DJ, Fraser RS, Miller MR, Milledge JS. Effect of altitude on spirometric parameters and the performance of peak flow meters. Thorax 1996;51:175-178.
- 4 Godschalk, L, Brackel HJL, Peters JCK, Bogaard JM. Assessment of accuracy and applicability of a portable electronic diary card Spirometer for Asthma treatment. Respiratory Medicine, 1996;90:619-622.
- 5 Reddel HK, Ware SI, Salmone JM, Jenkins CR, Woolcock AJ. Pitfalls in processing home electronic spirometric data in asthma. European Respiratory Journal 1998; 12: 853-858.



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With research grade gold standard transducer

Focus on the Future

## The new generation of Micro Medical Micro Spirometers

The innovative Micro Medical MicroGP and MicroDL are new generation precision pocket Spirometers offering diagnostic features at exceptional prices. These Spirometers feature the Micro Medical Gold Standard digital volume transducer with its proven accuracy, stability and reliability and meet and exceed the 1994 ATS standards for diagnostic devices.

The inexpensive MicroGP is the device of choice for COPD and Asthma screening offering a high degree of accuracy with simplicity of operation. Measuring and displaying FEV<sub>1</sub>/FVC/PEF with percent predicted as well as allowing a direct printout which includes the small airways flow indicators of F50/F25/MEF and the Flow/Volume and Volume/Time curves.

The MicroDL has the additional feature of a large memory capacity allowing up to 500 data sets (including Flow/Volume and Volume/Time curves) to be recorded for either direct printing, uploading to the complementary Spida 5 software or to be transmitted by modem to a remote location.

### ▲ Setting new standards in spirometry

The Standard Transducer from Micro Medical gives you the most precise volume and flow measurements for your Asthma and COPD patients.

This means that Micro Medical's world leading spirometers are the definitive benchmark for precision respiratory measurement.



Single/multi patient icon

Male/Female predicted normal value icon

Blow icon

UP/DOWN function key

FEV<sub>1</sub> Display parameter indicator

Large, easy to read 3 1/2" LCD

Height predicted normal value icon

% Ethnic correction normal value icon

Printer manager icon

Delete records icon

yr Age predicted normal value icon

### Traffic lights

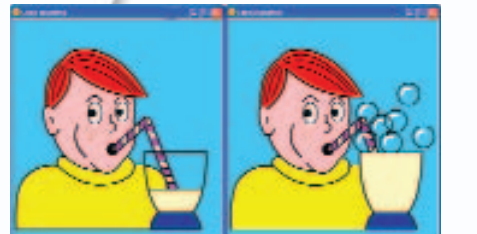
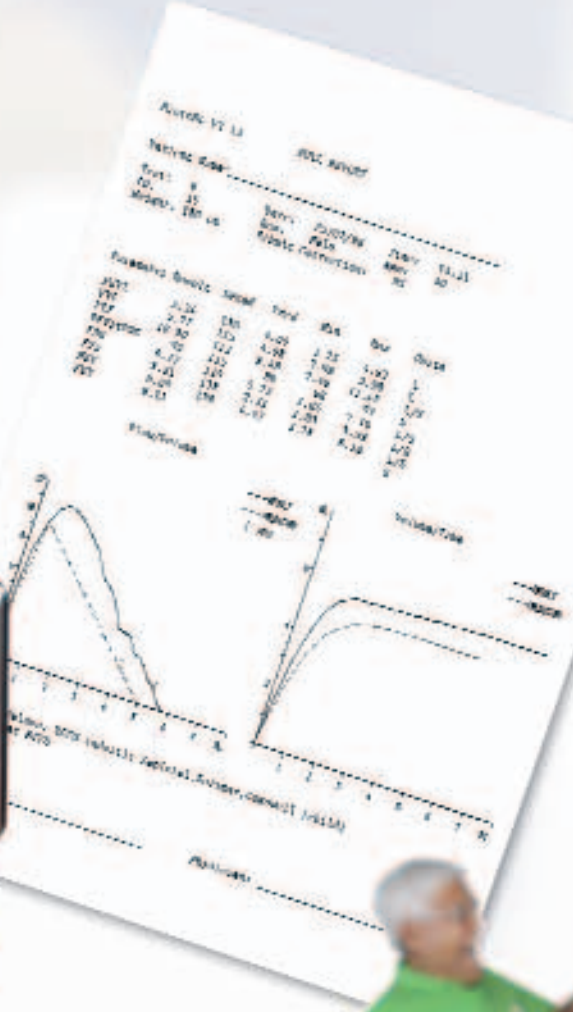
Fully configurable visual alert feature using superbright LED's

### PC connectivity

RS232 serial output for Spida 5 and optional SpidaXpert

### A4 printout

Single A4 report for MicroGP, choice of reports for MicroDL



Milkshake kid child incentive screen



Powerful long term trending facility

**MicroGP**

- Inexpensive pocket Spirometer for COPD/asthma screening
- Full A4 direct print out with Flow/Volume and Volume/Time curves
- ATS (1994) compliance for diagnostic devices
- Displays actual and percent predicted
- Battery operated and complete with sturdy carrying case

**MicroDL – as MicroGP plus:**

- 'Traffic light' patient alert system and diarycard features
- 500+ test memory including Flow/Volume and Volume/Time curves
- Ideal for clinical trials/patient home use
- Complementary Spida 5 software.
- Modem facility
- DiaryCard recording facility

### Spida 5 software

Available as an option for the MicroGP, but supplied complimentary with the MicroDL, Spida 5 is a 32 bit Spirometry software package, that is compatible with all the latest Windows operating systems. Up to 26 spirometry indices are measurable (using either model). Extensive search facilities and powerful longterm trending of results are also featured. Available as an upgrade for Spida 5 is SpidaXpert, an advanced interpretation and diagnostic program for spirometry.

