



Modern spirometry without compromise

- ◆ SpiroConnect® spirometer is easy to use, extremely stable, reliable and accurate at all flows
- ◆ Connects conveniently via latest Bluetooth technology to the PC, laptop computer or a mobile android device
- ◆ Patented vertical turbine technology enables SpiroConnect® to achieve low flow sensitivity of 0.025 l/s required by ATS/ERS and ISO26782 spirometry standards
- ◆ Advanced yet user friendly PC software aids competent diagnoses of asthma and COPD
- ◆ Free fully integrated Android App enables bedside diagnoses and monitoring



MedChip Solutions combine technological innovations with over 30 years design experience of turbine-based spirometers bringing to the market the only turbine spirometer achieving the required low flow sensitivity. SpiroConnect® - with its patented vertical turbine technology delivers precision spirometry with unrivalled low-flow sensitivity for diagnosis of asthma and COPD.



SpiroConnect® Specifications

Transducer Type

Bi-directional high sensitivity vertical turbine

Measurements

VC, FEV0.75, FEV1, FEV3, FEV6, FVC, PEF, FEF25 (MEF75), FEF50 (MEF50), FEF75 (MEF25) FEF25-75 (MMEF), FIV1, FIVC, PIF, FIF25 (MIF75) FIF50 (MIF50), FIF75 (MIF25), MET25-75, FET, EVC, IVC, IC, VT (TV), Ti, Te, IRV, ERV, V_{ext}, FEV0.75/VC, FEV0.75/FVC, FEV1/VC, FEV1/FVC, (FER), FEV3/VC, FEV3/FVC, FEV0.75/FEV6, FEV1/FEV6, FEF50/VC, FEF50/FVC, MMEF/FVC (FEF25-75/FVC), FIV1/FIVC (FIR), R50 (FEF50/FIF50), Ti/T_{tot}, VT/Ti (TV/Ti), MVV(ind), Lung Age

Accuracy

To ISO26782 and ATS 2005 standards: Volume to within ±3% of reading, or 0.05 litres, whichever is greater

Sensitivity

Better than 0.025 l/s

Power Supply

2 x AA size Alkaline primary cells

Operating Current

110 mA peak

Battery Life

Alkaline cells, greater than 500 measurement cycles

Dimensions/Weight

55mm (W) x 100mm (D) x 110mm (H) / 200g (including batteries)

Operating Conditions

10°C to 38°C, 15% to 95% RH, non-condensing

Transport and Storage Conditions

-20°C to 70°C, 15% to 95% RH, non-condensing

Lifetime

5 years

Flow Range/Volume Range

0 - 15 l/s / 0 to 8 l

PC Software Requirements

PC running 32 or 64 bit Windows XP, Vista, Windows 7, Windows 8, Windows 10 or later (Desktop versions only)
1 GHz processor
100Mb free disk space
1024 x 768 screen resolution USB 2.0 port

Android App Software Requirements

Android tablets and phones with OS 4.2 or greater with integral Bluetooth connectivity and screen resolution of at least 480 x 800

EMR Systems Compatibility

GDT Data Exchange Format



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The following patents rights apply to the vertical turbine technology
European Patent Application Number 13724330.9 and GB Patent Number 2500893
User Manual hard copy request and pdf download available from:
www.medchipsolutions.co.uk/manuals