



The Contec SP100 is a portable desktop spirometer with built-in thermal printer, 7" colour TFT touchscreen, and measurement of 50+ pulmonary function parameters including FVC, FEV1, PEF, and MVV. Dual AC/DC powered with a rechargeable lithium battery, it delivers clinical-grade spirometry in hospital, clinic, and mobile settings.

50+ Pulmonary Parameters with Real-Time Waveform Display

The SP100 measures and displays over 50 lung function parameters covering forced vital capacity (FVC), vital capacity (VC/SVC), and maximal voluntary ventilation (MVV) testing modes. Key parameters include FVC, FEV1, PEF, FEV1/FVC, FEF25, FEF50, FEF75, FEF25-75, FEV6, FEV1/FEV6, FIVC, FIV1, PIF, and MVV ? providing the full dataset required for structured pulmonary function reporting and ATS/ERS-aligned interpretation. Flow-volume loops and volume-time curves are displayed in real time on a 7" colour TFT touchscreen, enabling immediate clinical assessment

without transferring data to an external workstation.

Built-In Thermal Printer for Immediate Result Documentation

An integrated high-speed thermal printer outputs results on 112mm-wide paper – wide enough to render complete spirometry reports including waveform graphics, parameter tables, and predicted/measured comparisons. Immediate on-site printing eliminates reliance on networked printers or electronic health record access at the point of care, making the SP100 well suited for outreach clinics, occupational health assessments, and bedside pulmonary screening.

Portable Design with AC/DC Flexibility

At 1.8 kg and 315 × 215 × 92 mm, the SP100 is compact enough for mobile deployment without sacrificing the full-function feature set of a desktop unit. A built-in 7.4V/3700mAh rechargeable lithium battery supports mains-independent operation, while universal AC input (100–240V, 50/60Hz) ensures compatibility across South African and international power supplies. The turbine flow sensor delivers a measurement volume range of 0–10 L with accuracy of ±3% or ±0.05 L – meeting the precision requirements for COPD staging, asthma monitoring, and pre/post-bronchodilator testing.

Technical Specifications: