



Vyntus® SPIRO

PC-based spirometer powered by SentrySuite® software

Vyntus SPIRO turns any PC into a precision spirometer

The Vyntus SPIRO was born out of our obsession to perfect a spirometer that is easy-to-use and has the flexibility to provide accurate results for the general user and the sophisticated labs. Stationary or portable PC spirometer as a stand-alone device or as part of the SentrySuite network.



Performs all of the essential spirometry tests:

Enhanced Spirometry:

Slow Spirometry, Forced Spirometry and Maximum Voluntary Ventilation

Pre and post:

Medication testing or therapy control



Bronchial Challenge testing:

Software for safe and accurate bronchial provocation testing

Including flexible configuration tools:

Report Designer:

Software for customizing reports and multi-format report output: PDF, TIF, JPG or RTF

Reference Set Designer

Software for customizing set of reference values like GLI, ECCS and NHANES

Bronchial challenge testing

The integrated software-controlled bronchial challenge testing program assists accurate and safe provocation testing with user guidance throughout the entire protocol.

The subject's response is monitored, and the software triggers to "proceed with next step" or "preset provocation level has been achieved."

The heart of the system, the JAEGER® flow and volume transducer

Thousands of PFT labs depend every day on Vyair's proven, accurate and reliable JAEGER pneumotach. For **hundreds** of publications the JAEGER pneumotach was the device of choice. Its excellent dynamic range effectively tests a broad population from small children to athletes.

The pneumotach has been designed to work with the validated MicroGard® II bacterial/viral filter and is easy to disassemble.

Reprocessing cycle for downstreamed parts can be **reduced to three months** using the MicroGard filter*.



Available options:

Vyntus Ambient Module

for automatic reading of temperature, air pressure and humidity

Calibration syringe to ensure precise measurements

Vyntus® ECG – the Bluetooth® 12-Lead-PC-ECG for rest and stress

Networking with report stations

Web-based access and **review** of patient data through SentrySuite Mobile Review

HIS data integration through SentryConnect



Guidance & Quality

Coaching for operator and patient for best results



SentrySuite records all breathing maneuvers independently of the patient's cooperation and shows you the best curve

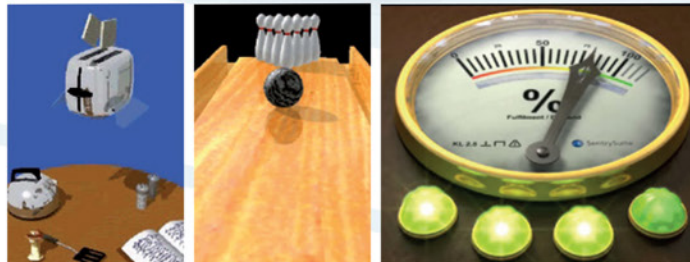
Online breathing curves for controlled real-time patient guidance



Colored guidance bar for in test exhalation time and plateau recognition

Check marks indicate successful end of test

Online textual guidance helps coach clinician through each maneuver



Animation incentives

Choose from 10 user-definable animated options to assist the operator and coach patients of all ages.

Precise data management

SentrySuite software acts as your powerful assistant that will help guide and coach you from calibration to test completion and report generation.



Clear graphs enlargable to full screen view with just one click

Interpretation Templates
Create your own templates with macros or select from a choice of several automatic interpretation algorithm

All test results in one adjustable table including predicted, LLN, author, Z-score, best values, values of all trials, pre-post comparison and more

Color-coded classification bar

Color-coded repeatability graph enables direct visual feedback on test quality

Technical Specifications

Measurement

Flow/Volume-loop (FVC)	FVC, FEV1, FEV1/FVC, MFEF 25-75, FEF 75, PEF, PIF and others
Slow vital capacity (SVC)	VC IN, VC EX, IC, ERV, IRV, VT, BF and others
Maximum voluntary ventilation (MVV)	MVV, BF MVV, VT MVV and others

Flow measurement

Type	High-quality pneumotach
Range	0.1 to ± 16 L/s
Resolution	1 mL/s
Accuracy	0.1 to 14 L/s: $\pm 5\%$ of reading or 0.2 L/s, whichever is greater
Resistance	< 0.05 kPa/L/s (0.51 cmH ₂ O/L/s) at 10 L/s

Volume integration

Type	Software volume integration of flow signal
Range	30 L (software limited)
Resolution	1 mL
Accuracy	0.5 to 8 L: $\pm 3\%$ of reading or 0.05 L, whichever is greater

Ambient conditions

Temperature	+10 °C to +34 °C (+50 °F to 93.2 °F)
Relative humidity	20 to 80 % RH, non-condensing
Ambient pressure	700 to 1060 hPa (525 to 795 mmHg)
Altitude	≤ 3000 m

Power supply

Mains voltage	5 V DC via USB
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Classification of applied parts

Type applied part	B
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Category according to MDD 93/42/EEC (2007)

Complete system	Active class IIa medical product
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Operating Mode

Complete system	Continuous operation
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Standards, directives and market clearances

Standards	EN 60601-1, EN 60601-1-2, EN 62304, EN 62366, EN ISO 14971, EN ISO 10993-1
Directives	93/42/EEC amended by 2007/47/EC, RoHS 2011/65/EU compliant
Market clearances	CE, FDA 510(k) clearance



Components

JAEGER pneumotach consists of handle and 2 pneumotachs

Set of accessories
mouthpieces, nose clips, elbows,
calibration adapter


Complete SentrySuite software package inclusive detailed Instructions for Use



*based on the Bio Burden DIN EN ISO 11737-1: Report 18AA0088

GLOBAL HEADQUARTERS

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