

Healthcare

PNEUMOTRAC SPIROMETER

The Ideal PC-Based Spirometer for
General Healthcare and Occupational Health



A Global Leader in Respiratory Diagnostics

 **Vitalograph[®]**

vitalograph.com

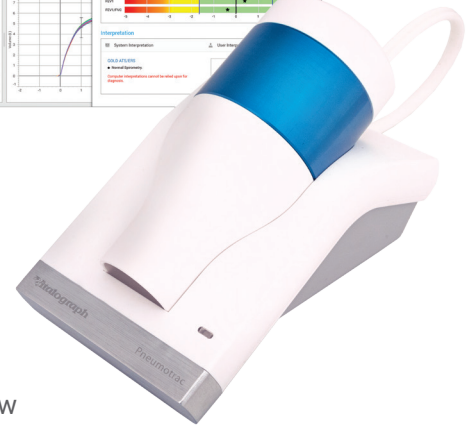
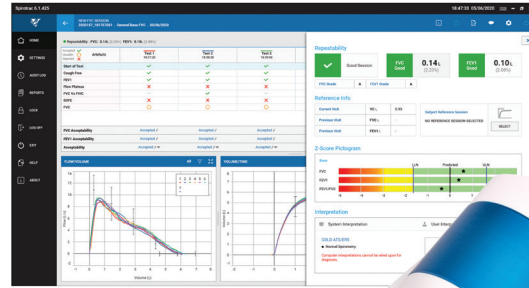
PNEUMOTRAC SPIROMETER

Fast, easy and accurate spirometry instantly on your PC, laptop or tablet.

The next generation Vitalograph Pneumotrac™ Spirometer, combined with Spirotrac® PC software, is a powerful tool for respiratory diagnosis of both adults and pediatrics.

Capture reliable test results immediately with Pneumotrac's precise and durable measuring technology which is extremely accurate and stable over time. Connects instantly to your PC by USB, delivering results through the new improved Spirotrac 6 software.

Compliance with the 2019 ATS/ERS spirometry update ensures your service meets international guidelines on accuracy and reporting.

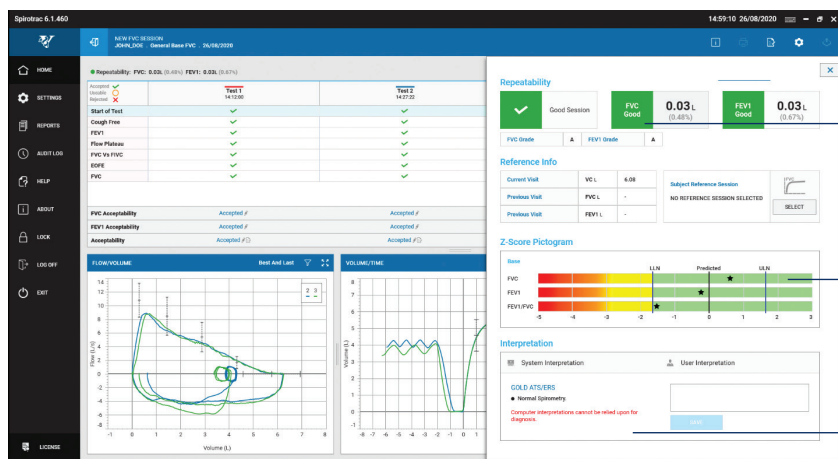


Features and Benefits

- Meets **2019 ATS/ERS** standardization of spirometry guidelines.
- Supports **full feature spirometry testing and bronchodilator responsiveness testing** with over 50 available parameters.
- **Highly accurate, robust, and stable Fleisch** flow measuring technology with no moving parts.
- **Low running costs & environmentally friendly:** no need for costly disposable sensors, turbines or flow tubes.
- **Save time & money on cleaning** using Vitalograph Bacterial Viral Filters (BVF™) with validated cross-contamination efficiency >99.999%, protecting the device, patient, and operator.
- Real-time curves and new incentive animations encourage **optimal subject performance**.
- Instant **quality feedback** using the latest test/session acceptability, usability and repeatability criteria.



- Automatic computer **interpretation** based on ATS/ERS & GOLD guidelines.
- Fast evaluation of results using **latest GLI spirometry** predicted equations with LLN, %Pred and Z-scores.
- Ensure best practice with quick and easy calibration verification routines as recommended by 2019 ATS/ERS spirometry guidelines.
- **Automatic BTPS correction** with built-in temperature sensor for optimal accuracy.
- **Share test data easily** with compatible Electronic Medical Record systems.
- Free 5-Year warranty included with Pneumotrac product registration.



FVC and FEV1 Grading System as per latest ATS/ERS 2019 guidelines

Graphical representation of Z-score values to facilitate interpretation

Interpretation based on latest ATS/ERS and GOLD guidelines

Vitalograph BVF Bacterial Viral Filters

Optimal Protection During Spirometry. Cardboard mouthpieces and disposable turbines do not prevent germ carrying droplets from passing through the device into the testing environment. Our BVF provides that optimal protection with 99.999% cross infection protection against bacteria and viruses including COVID-19, Influenza, TB, MRSA, etc.

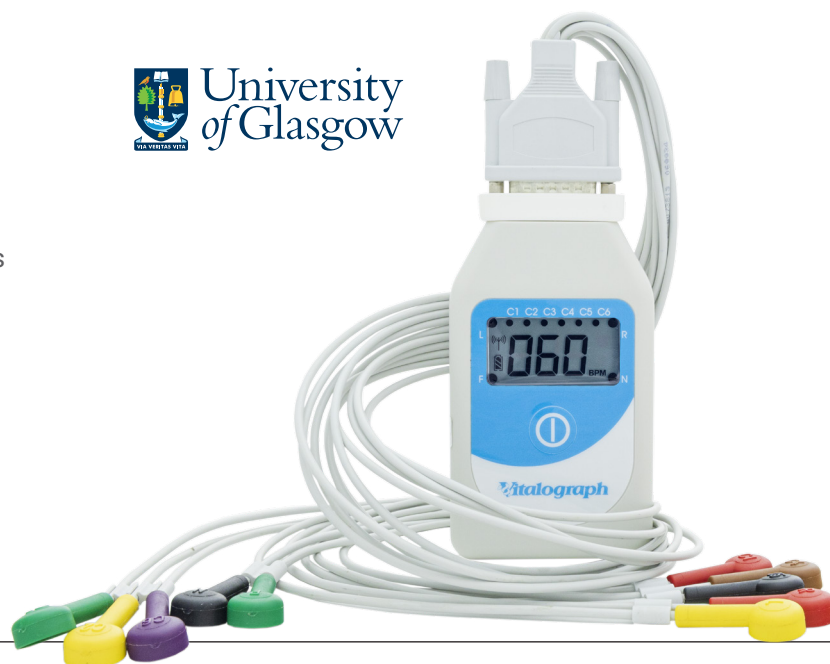
Vitalograph BVF™ Filter Technology	Optimal Hygiene	Low Running Costs

Advantages of Vitalograph Filter Technology

So Much More Than Just Spirometry

Expand the capabilities of Spirotrac by adding full 12-lead ECG. The BT12 transmits traces wirelessly, reducing ECG artefact. The integrated Glasgow algorithm provides a computer-generated analysis of potential cardiac abnormalities, a full range of parameters, interpretation and rhythm analysis.

Speak to one of our team to learn more about our ECG solution



Technical Specifications

Product: Vitalograph Pneumotrac

Model: 6800

Flow Detection Principal:

Fleisch type pneumotachograph

Volume Detection:

Flow integration sampling @ 100Hz

Volume Accuracy: Within $\pm 2.5\%$

Flow Measurement Range:

Max. flow rate ± 960 L/min (± 16 L/s)

Min. flow rate ± 1.2 L/min (± 0.02 L/s)

PEF Accuracy: Within $\pm 10\%$

Back pressure: Less than 0.1kPa/L/second @ 14L/s

Operating temperature: ISO26782 limits: 17–37°C

Design limits: 10–40°C

Performance standards:

ATS/ERS 2019, ISO 23747:2015 & ISO 26782:2009

QA/GMP standards: EN ISO 13485, FDA 21 CFR 820, JPAL, MDSAP

Dimensions:

160mm (length) x95mm (width) x 115mm (height)

Weight: 550g

Power Supply: 5V DC via USB

Ordering information

Pneumotrac Spirometer

Product Model Number	Customer Order Number	Product Description
6800	77902	Model 6800 Pneumotrac ¹

Optional Extras

Product Model Number	Customer Order Number	Product Description	Product Box Size
2040	36020	3-L Precision Syringe	
2820	28554	Eco BVF with Plastic Bite Lip	75
	28553	Eco BVF with Plastic Bite Lip + Disposable Nose Clip	75
	28501	Eco BVF	100
	28572	Eco BVF and Disposable Nose Clip	80
2030	20303	Disposable Noseclips	200

¹ Includes Spirotrac 6 PC software

Vitalograph[®], Vitalograph[®], Spirotrac[®], Pneumotrac[™] and BVF[™] are trademarks or registered trademarks of Vitalograph Ltd. University of Glasgow logo is a registered trademark of the University of Glasgow.

CE
2797

062945.2

our services cover the globe

Vitalograph Inc.

Toll Free: 800 255 6626
Tel: (913) 730 3200
Fax: (913) 730 3232
contact@vitalograph.com
13310 West 99th Street
Lexexa, Kansas, 66215,
USA

Vitalograph (Ireland) Ltd

Tel: +353 65 686 4100
Fax: +353 65 682 9289
sales@vitalograph.ie
Gort Road Business Park
Ennis, Co Clare, V95 HFT4,
Ireland

Authorised Dealer Stamp



Vitalograph Ltd, Hong Kong/China

sales@vitalograph.cn
P.O. Box 812
Shatin Central Post Office
Hong Kong

Vitalograph Ltd, International

Tel: +44 1280 827120
Fax: +44 1280 823302
sales@vitalograph.co.uk
Maids Moreton, Buckingham
MK18 1SW,
England

Vitalograph GmbH

Tel: +49 40 547391-0
Fax: +49 40 547391-40
info@vitalograph.de
Rellinger Straße 64a
D-20257 Hamburg
Germany

Vitalograph Ltd, UK

Tel: 01280 827110
Fax: 01280 823302
sales@vitalograph.co.uk
Maids Moreton, Buckingham
MK18 1SW,
England

Pneumotrac Spirometer

Fast, easy and accurate spirometry instantly on your PC, laptop or tablet.



Technical Specifications

Product	Vitalograph Pneumotrac Model 6800
Flow Detection Principal	Fleisch type pneumotachograph
Volume Detection	Flow integration sampling @ 100Hz
Volume Accuracy	Within $\pm 2.5\%$
Flow Measurement Range	Max. flow rate ± 960 L/min (± 16 L/s) Min. flow rate ± 1.2 L/min (± 0.02 L/s)
PEF Accuracy	Within $\pm 10\%$
Back pressure	Less than 0.1kPa/L/sec @ 14L/sec
Operating temperature range	ISO26782 limits: 17–37°C Design limits: 10–40°C
Operating humidity range	30%–75%
Ambient pressure range	850hPa–1060hPa
Performance standards the Vitalograph Pneumotrac meets or exceeds	ATS/ERS 2019, ISO 23747:2015 & ISO 26782:2009
QA/GMP standards	EN ISO 13485, FDA 21 CFR 820, SOR/98-282, JPAL
Dimensions	160mm (length) x 95mm (width) x 115mm (height)
Weight	550g
Communications	USB 2.0/3.0
Power Supply	5V DC via USB
Device Classification	Class II (USA) / IIa (EU) medical device

Vitalograph® and Pneumotrac™ are trademarks or registered trademarks of Vitalograph Ltd.


Spirotrac 6 Software

Consolidate both Spirometry and ECG through a single, flexible, and powerful software solution

Technical Specifications

Product	Vitalograph Spirotrac® 6
Model	7000
Performance standards	ATS/ERS 2019, ISO 23747:2015 & ISO 26782:2009
QA/GMP standards	EN ISO 13485, FDA 21 CFR 820, SOR/98-282, JPAL & MDSAP
Minimum PC System Requirements	<p><u>Processor Speed:</u> 2GHz or greater</p> <p><u>RAM:</u> 2GB (Minimum), 8GB (Recommended)</p> <p><u>Disk Space:</u> 1GB or greater</p> <p><u>Monitor:</u> 1280 x 800 pixels minimum, higher recommended.</p> <p><u>Other:</u></p> <ul style="list-style-type: none">• USB Port for Pneumotrac or other compatible devices• Bluetooth Support for BT-12 ECG• .Net framework 4.8• If the .Net Framework version 4.8 is not already installed, this will require an additional 1GB (32-bit) or 2GB (64-bit) of hard disk space. If SQL Server Express is not already installed, this will require an additional 2GB of hard disk space.
Operating Systems Supported	Windows 10, Windows 11
Test Types Supported	<ul style="list-style-type: none">• Spirometry: Single breath testing, multi-breath testing. VC, Post VC, FVC, Post FVC, PCF• ECG: 12 lead 10 second trace• Respiratory Muscle testing: MIP, MEP, SNIP
Devices Supported	<ul style="list-style-type: none">• Spirometry: Pneumotrac• ECG: BT12 ECG
FVC Parameters	FVC, FEV1, FEV1/VC, FEV1/FVC, FET, PEF, FEF25-75, FEV6, FEV1/FEV6, FEV1 Ratio, PEF(L/s), PEF(L/min), FIVC, PIF(L/s), PIF(L/min), TV, IRV, ERV, IC, FEV3, FEV0.5, FEV0.75, FEV0.5/FVC, FEV0.75/FVC, FEV3/FVC, FEV6/FVC, FEF0.2-1.2, FEF25-75/FVC, FEF75-85, FIVC/FVC, FEF25, FEF50, FEF75, FIF25, FIF50, FIF75, FEV1/PEF, FIF50/FEF50, FIV1, FEV1/FIVC, FEV1/IVC, FIV1/FIVC, FIV1/FVC, FEF50/FIF50, MVVind, BEV/FVC, EOTV, FMFT, IVC, FEFmax, FEV1/HT2, RAW-ind, FEV3/VC, TLC, RV, FRC, BEV, TExt, TPef, tRISE, tHES, Lung Age

Technical Specifications (continued)

VC Parameters	VC, EVC, IVC, TV, IC, ERV, TLC, RV, FRC
Predicted Values Selectable	GLI, ERS/ECCS; NHANES
Spirometry Incentives	Big Bad Wolf, Candles, Ball and Tube
Spirometry Interpretation	GOLD 2019 ATS/ERS2005 interpretation
Spirometry Reports	Report templates based on ATS 2017 Standardised Reports with multiple configuration such as logo, title, header, Best1 Test, Best3 Test, All Tests options
ECG Parameters	HR, RR, ST, PR, PQ, QT, P, QRS, QTcH, QTcB, QTcF, QTcFra, P Axis, QRS Axis, T Axis 
ECG Interpretation	Glasgow Algorithm
ECG Reports	3 x 4, 6 x 2, 12 x 1, Medians, Average
Database Engine	Supplied with Microsoft SQL Server 2014 Express SP3. Compatible with Microsoft SQL Server 2014 and above
Database Options	Local SQL Server Database or Network SQL Server Database. Database backup on lock, logoff or shutdown
Database Migration/Import Options	Database Migration from Spirotrac 5
Security Options	User Management, User logon with password complexity, User Inactivity lock timeout, Audit Annotation, PII Data encrypted
Audit Trail	Full audit log of all activities date/time stamped by user
EMR Connectivity	HL7, GDT via Vitalograph Connect
Trending Options	Max 4 parameters over selected date range
Device Classification	Class II (USA) / IIa (EU) medical device

Vitalograph, Vitalograph®, Spirotrac®, and Pneumotrac™ are trademarks or registered trademarks of Vitalograph Ltd. University of Glasgow logo is a registered trademark of the University of Glasgow. Bluetooth® is trademark of Bluetooth SIG. All other trademarks and trade names are those of their respective owners.

CE
2797

062967_2