Vitalograph is a world leading provider of outstanding quality cardio-respiratory diagnostic devices, clinical trial services, audiometers and medical equipment servicing. With a pioneering heritage of excellence spanning half a century Vitalograph continues to make valuable contributions to effective medical care and enhanced quality of life.

Technical Specifications

Product: Respiratory Monitor
Model Number: 4000
Quality of Blow Indicator: Yes
Accuracy: Better than +/-3%
Range: 0 - 9.99 L BTPS
Sensor: Stator rotor
Flow Impedance: Better than 0.15 kPa/L/s at 14 L/s
Power Supply: AAA batteries
Display: Custom liquid crystal display
Size: 113 x 63 x 48mm
Weight: 55g
Performance Standards: ISO 26782:2009; ISO 23747:2015; ATS/ERS 2019
Safety Standards: IEC 60601-1
Designed & Manufactured Under: EU Medical Devices Directive 93/42/EEC (as amended), ISO 13485. FDA 21 CFR 820, CMDR

Respiratory Monitors Supplied With:
Supplied with Vitalograph Reports Software (USB & BT models), carry pouch, guide for healthcare professionals and batteries.

Ordering Info

asma-1
40000 4000 asma-1
40065 4000 asma-1 Child
40400 4000 asma-1 USB
40300 4000 asma-1 BT

copd-6
40201 4000 copd-6
40451 4000 copd-6 USB
40350 4000 copd-6 BT

lung monitor
40550 4000 lung monitor
40700 4000 lung monitor USB
40750 4000 lung monitor BT
40372 4000 lung monitor BT SMART

lung age
40500 4000 lung age

Consumables
20242 2024 SafeTway® mouthpieces (200)
28501 2030 Eco BVF Bacterial Viral Filters (100)

Application Developer Resources
Note: If USB data transfer is required, developers can choose from any of the USB models listed
40426 4000 Developers' Kit
Includes: CD containing device API and Vitalograph Reports, Bluetooth dongle and driver CD, license agreement.

4000 Respiratory Monitors

Variant	PEF	FEV_1	FEV_6	FEV_1 Ratio	FEF 25-75%	FEV 0.5/0.75	Lung Age	Memory	Personal Best	GOLD	PDF Reports	Import data to SpV
asma-1™	●	●	o	o	o	o	o	600	●	o	o	o
asma-1 child version	●	●	o	o	o	●	o	600	●	o	o	o
asma-1 USB, BT	●	●	o	o	o	o	o	600	●	o	●	●
copd-6™	o	●	●	●	o	o	●	o	o	●	o	o
copd-6 USB, BT	o	●	●	●	o	o	●	o	o	●	●	o
lung monitor	o	●	●	●	o	o	o	200	●	o	o	o
lung monitor USB, BT	o	●	●	●	●	o	o	200	●	o	●	o
lung monitor, BT SMART	●	●	●	●	●	●	o	200	●	o	o	o
lung age	o	●	o	o	o	o	●	o	o	o	o	o

● Available o Not available

USB - USB BT - Bluetooth

Vitalograph®
A Global Leader in Respiratory Diagnostics

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VITALOGRAPH 4000 SERIES

Respiratory Monitors & Screening Devices

Vitalograph®
A Global Leader in Respiratory Diagnostics

Data you can rely on. People you can trust.

VITALOGRAPH 4000 SERIES

Respiratory Monitors & Screening Devices

The Vitalograph® 4000 series of respiratory monitors are ideal for general screening of chronic respiratory disease within clinical trials and occupational health environments.

The USB and Bluetooth® models make the monitoring of those with chronic respiratory conditions such as asthma, cystic fibrosis, COPD and post transplant patients easier than ever by providing low cost, highly accurate monitoring within the home.

Vitalograph lung monitor

Effective home monitoring of key lung function parameters for those with respiratory conditions including COPD, cystic fibrosis and for post transplant patients.

- Displays include FEV_1, FEV_6 and ratio
- Displays % of personal best FEV_1
- Colour zones indicate the personal best FEV_1
- Stores 200 test sessions
- Automatically assesses test quality
- Quality of blow indicator
- Easy to clean mouthpiece and flowhead

Dickens, A.P., Fitzmaurice, D.A., Adab, P. et al. Accuracy of Vitalograph lung monitor as a screening test for COPD in primary care. npj Prim. Care Respir. Med. 30, 2 (2020). https://doi.org/10.1038/s41533-019-0158-2

Vitalograph asma-1 & asma-1 Child

Simple, effective asthma monitoring. The asma-1™ is a robust and low cost solution for the home monitoring of PEF and/or FEV_1.

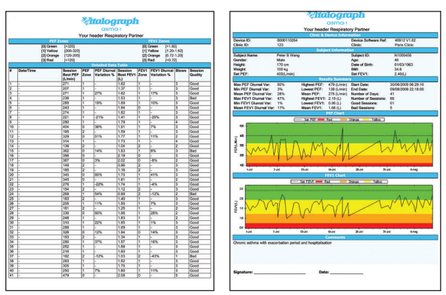
- Automatic assessment of test quality
- FEV_1 less effort dependent
- Child versions: PEF, FEV_1, $FEV_{0.5}$ & $FEV_{0.75}$
- asma-1 measures % of personal best for PEF & FEV_1
- Stores 600 test sessions

Vitalograph copd-6

The Vitalograph copd-6™ identifies those at risk of COPD at the pre-symptomatic stage to allow early medical intervention and facilitate better clinical outcomes.

- Monitors COPD patients using their 'number', the obstructive index – FEV_1 as a percent of predicted
- Displays FEV_1, FEV_6, ratio and % predicted, obstructive index, COPD classification and lung age
- Built-in quality of blow indicator
- Displays the GOLD COPD classification (stage I – IV) to help recognise the need for a change in patient management plan

Cristina Represas Represas abd Maribel Botana Rial abd Virginia Leiro Fernández abd Ana Isabe lGonzález Silva abd Víctor del Campo Pérez cd Alberto Fernández-Villar abd https://doi.org/10.1016/j.arbres.2010.04.008



Vitalograph Reports Software supplied with USB and Bluetooth models

Data you can rely on. People you can trust

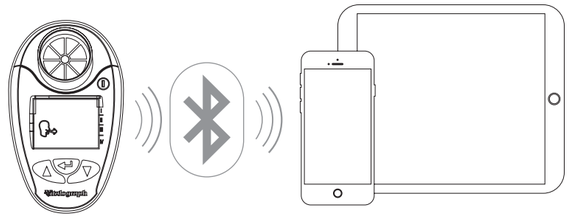
VITALOGRAPH 4000 SERIES

Telemedicine Solutions

Vitalograph has simple, effective and low cost solutions available for those engaged in home based respiratory studies or where home based monitoring is required for specific chronic lung conditions.

Extensive experience in supporting home monitoring programs for asthma, COPD, cystic fibrosis and post transplant patients make Vitalograph the ideal telemedicine partner.

Bluetooth and USB models available for Apple iOS, Android, Qualcomm and Windows Applications.



Vitalograph lung monitor - for application developers

Latest Bluetooth SMART technology
Enabling connectivity with Apple iOS, Android and Windows based platforms

Extensive choice of transmittable parameters
PEF, Best PEF, PEF Personal Best, PEF %, $FEV_{0.75}$, Best $FEV_{0.75}$, FEV_1, Best FEV_1, FEV_1 Personal Best, FEV_1 %, FEV_6, Best FEV_6, FEV_1/ FEV_6, Best FEV_1/ FEV_6, FEF_{25-75}, Best FEF_{25-75}

Widest choice of display parameters
PEF, FEV_1, FEV_6, FEV_1/FEV_6, FEF_{25-75}

Post Software Development Monitor Configuration

Once the software development process is complete, customers can choose from a wide range of standard respiratory monitor configurations or request a quotation for a custom configuration

Respiratory Monitors Developers' Kit

Designed for providers of e-Diary, home hub and telemedicine solutions, the Device Application Programming Interface (API) Developers' Kit includes Bluetooth® dongle, Vitalograph Reports Software, device API, license agreement, software code and access to our R&D Technical Support Hotline

www.vitalograph.co.uk