

Vitalograph asma-1



the difference is clear

# Vitalograph asma-1

Electronic asthma monitors

**Vitalograph**<sup>®</sup>  
Your respiratory partner

# Vitalograph asma-1

## Electronic Asthma Monitor

- ❖ Simple to use
- ❖ Electronic record – no need for record cards
- ❖ Automatically assesses test quality
- ❖ More accurate than a mechanical meter
- ❖ Patient can review past results at home
- ❖ Measures PEF and FEV<sub>1</sub>
- ❖ Child version measures PEF, FEV<sub>1</sub>, FEV<sub>0.5</sub> and FEV<sub>0.75</sub>
- ❖ FEV<sub>1</sub> has less diurnal variability and is less effort dependent
- ❖ Can display % of personal best for both PEF and FEV<sub>1</sub>
- ❖ PEF and FEV<sub>1</sub> zones can be personalised
- ❖ Automatically stores best values
- ❖ Large, easy to read display
- ❖ Stores 600 test sessions
- ❖ Suitable for use in clinic with SafeTway® mouthpieces
- ❖ Easy to clean mouthpiece and flowhead
- ❖ Language independent
- ❖ ISO 23747:2007 Peak Flow Meters  
ATS/ERS: 2005 Spirometry Guidelines  
ISO 26782:2009 Spirometers



### The asma-1™ comes complete with:

- ❖ Plastic mouthpiece
- ❖ Carry pouch
- ❖ Guide for the healthcare professional
- ❖ 2 AAA batteries

### The asma-1 is very easy to use, simply:

- ❖ Blow for > 1 second
- ❖ Repeat blow 3 times
- ❖ Press 'Enter' to view best result
- ❖ Transmit result (on comms versions)

# Vitalograph asma-1 usb

For the home monitoring of asthma with electronic and hard copy reports

The asma-1 usb links to your PC to produce PDF reports for archiving or printing. These reports include the following:

- ❖ Subject ID and name
- ❖ Age, height, gender and optional weight field
- ❖ Best PEF and FEV<sub>1</sub> fields automatically populated
- ❖ BMI calculated (from height and weight)
- ❖ Personal best FEV<sub>1</sub>, PEF and zones as set in asma-1
- ❖ Indicates blow quality, number of blows and diurnal variation
- ❖ Device ID automatically transmitted with the data
- ❖ Ability to add comments to the report
- ❖ Trend graphs of FEV<sub>1</sub> and PEF
- ❖ Optionally separate graphs of am and pm sessions
- ❖ Information presented in tabular and graphical form
- ❖ Can automatically name the PDF file
- ❖ Time/date stamp for each session



**Additional Report Information**

The following details are not stored on the model 4000 device. If you would like any of these details to be displayed on the generated report, please enter them now. Otherwise, they shall not appear on the report.

**Demographic:**

First Name: John Initial: EC Date of Birth: dd/mm/yyyy: 16/09/1975 Clinic: 123456789012345  
 Last Name: Doe Weight (kg): 75 Height (cm): 175 Clinic:  
 Subject ID: 123456789012345 Gender: Male

Unit Measure:  Imperial/US  Metric Report Type:  All  Summary  Graph AM/PM  
 Together  Separate

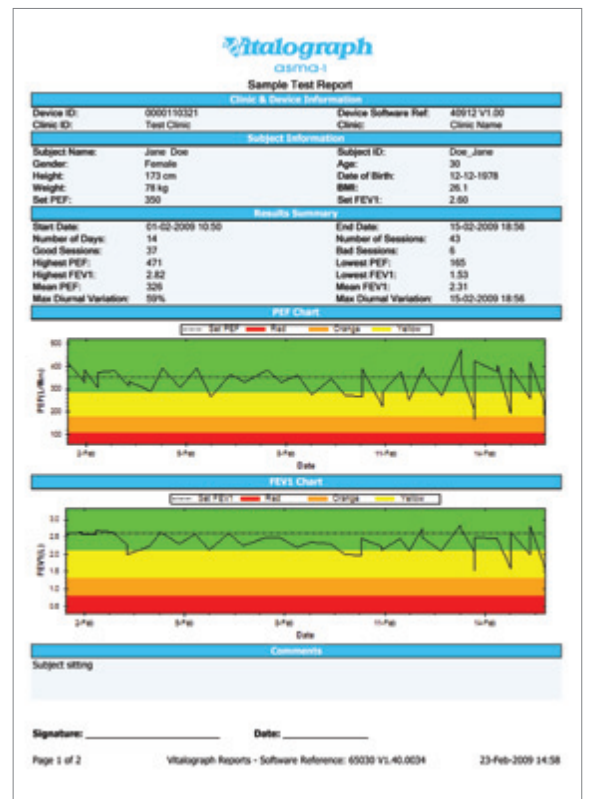
Comments:  
 Comments:

Print Friendly  Save Information



The asma-1 usb comes complete with:

- ❖ Reports Software and document CDs
- ❖ 4 disposable SafeTway mouthpieces and noseclips
- ❖ Plastic mouthpiece and carry pouch
- ❖ Guide for the healthcare professional
- ❖ USB cable and 2 AAA batteries



## Technical Specification:

**Product:** Respiratory Monitor

**Model Number:** 4000

**Parameters Displayed (Adult version):**  
PEF and FEV<sub>1</sub>

**Parameters Displayed (Child version):**  
PEF, FEV<sub>1</sub>, FEV<sub>0.5</sub> and FEV<sub>0.75</sub>

**Memory:** 600 PEF and FEV<sub>1</sub>

**Quality of Blow Indicator:** Yes

**Accuracy:** FEV<sub>1</sub> better than +/-3% or +/-100ml (whichever is greater)

PEF better than +/-5% or +/-25L/min (whichever is greater)

**Range Volume:** FEV<sub>1</sub> 0.4 - 9.99 L BTPS

**Range Flow:** PEF 25 – 840 L/min

**Sensor:** Stator rotor

**Flow Impedance:**  
Better than 0.15 kPa/L/s at 14 L/s

**Power Supply:** 2 AAA batteries

**Display:** Custom liquid crystal display

**Size:** 113 x 63 x 48mm

**Weight:** 55g

**Performance Standards:**  
ISO 26782:2009; ISO 23747:2007;  
ATS/ERS 2005

**Operating Temperature:** 17 - 37°C

**Management Zones:** Factory set 3 zones  
Green/Yellow threshold 80% Yellow/Red  
threshold 50%. Zones may be changed by the  
user and number of zones increased to 4

**Safety Standards:** IEC 60601-1:2005

**Medical Safety Standard:** Medical Devices  
Directive 93/42/EEC (as amended)

**Designed & Manufactured Under:**  
ISO 13485:2003, FDA 21CFR820, CMDR

## Ordering Info:

40000	4000 Respiratory Monitor asma-1
40065	4000 Respiratory Monitor asma-1 child version
40400	4000 Respiratory Monitor asma-1 usb
40050	4000 Respiratory Monitor asma-1 s
40300	4000 Respiratory Monitor asma-1 bt
20242	2024 SafeTway mouthpieces (200)
20980	2024 SafeTway mini mouthpieces (50)
28350	2820 BVF™ Bacterial/Viral Filters (50)
20303	2030 Noseclips disposable (200)
36020	2040 3-L Precision syringe

## 4000 Respiratory Monitors

Variant	PEF	FEV <sub>1</sub>	FEV <sub>6</sub>	FEV <sub>1</sub> Ratio	FEF <sub>25-75%</sub>	FEV <sub>0.5/0.75</sub>	Lung Age	Memory	Personal	GOLD Best	PDF Reports	SPV Reports
asma-1™ standard	●	●	○	○	○	○	○	600	●	○	○	○
asma-1 child version	●	●	○	○	○	●	○	600	●	○	○	○
asma-1 usb/s/bt	●	●	○	○	○	○	○	600	●	○	●	●
copd-6™ standard	○	●	●	●	○	○	●	○	○	●	○	○
copd-6 usb/s/bt	○	●	●	●	○	○	●	○	○	●	●	○
lung monitor standard	○	●	●	●	○	○	○	200	●	○	○	○
lung monitor usb/s/bt	○	●	●	●	●	○	○	200	●	○	●	○
lung age standard	○	●	○	○	○	○	●	○	○	○	○	○

● Available ○ Not available

usb - USB

bt - Bluetooth

s - Serial

# Vitalograph®

Your respiratory partner

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e-mail: sales@vitalograph.co.uk  
www.vitalograph.eu

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