

the difference is clear

## Vitalograph PEF/FEV<sub>1</sub> Diary

For the accurate measurement and collection of PEF, FEV<sub>1</sub> and Diary data for home recording

The Vitalograph PEF/FEV<sub>1</sub> Diary is ideal for subjects to take home for measuring and capturing PEF, FEV<sub>1</sub> and Diary data for remote assessment and analysis from a wide range of applications including:

- Clinical Trials
- Hospitals
- Occupational Health
- General Practice

This pocket-size device can be used to assess the effectiveness of new asthma and COPD drugs, asthma management plans and closely monitor respiratory data from a variety of subjects, including heart-lung transplant patients.

The compact and lightweight design of the Vitalograph PEF/FEV<sub>1</sub> Diary makes it easily portable for use at home or at work and the replaceable / washable flowhead assures complete hygiene.

Vitalograph is a world leading provider of outstanding quality respiratory diagnostic devices, clinical trial services 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.



## The standard Vitalograph PEF/FEV<sub>1</sub> Diary includes:

- Entry of symptom scores and medication usage – up to 6 questions
- Up to 4 alarm prompts in 24 hours to aid subject compliance
- 6 different types of event markers, such as inhaler usage
- Storage up to 540 tests
- Time and date stamping of results with data stored in non-volatile memory
- Fully programmable set-up for clinical research use
- Identification of best test and recording or number of blows/session stored against each test
- Test QA including repeatability and good/poor session
- Optional Microsoft® Windows® based configuration software offering:
  - allocation of Diary to patient with patient specific configuration
  - downloading stored results to database
  - trending of results by age or date
  - event marker
  - colour zones
  - variation as % of predicted values

## The Vitalograph PEF/FEV<sub>1</sub> Diary can be customised for use in respiratory clinical trials to provide:

- Integration to clinic based centralized Spirotrac spirometry system software
- Storage of all PEF and FEV<sub>1</sub> blows
- Time windows for recordings, am and pm
- Diary questions with a range of answers, am and pm
- Use of numeric score with patient instruction cards ensures consistency of response
- Exacerbation alerts
- Compliance information via Spirotrac® software
- Automatic daylight saving corrections

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## References:

**Peak flow diaries in childhood asthma are unreliable**

A W A Kamps, R J Roorda, P L P Brand  
Thorax 2001;56:180-182

**Evaluation of an electronic hand-held spirometer in patients with asthma**

S.Hamid, Z.M.Corden, D.P.Ryan,  
I.Burnett, G.M. Cochrane

Respiratory Medicine (1988) 92,  
1177-1180

## Technical Specification:

**Product:** Vitalograph PEF/FEV<sub>1</sub> Diary

**Model No:** 2110

**Size:** 145mm x 70mm x 87mm

**Weight:** 147g (without PP3 battery)

**Parameters:** PEF; FEV<sub>1</sub>

**QA Test Review:** Using ATS/ERS 2005

**Guidelines Operating Temperature**

**Range:** ATS Limits: 17-37°C

**Design Limits:** 10 - 40°C

**Power supply:**

**Primary Battery:** Alkaline 9V, PP3  
(MN1604)

**Flow Detection Principle:** Fleisch type  
pneumotachograph

**Volume Detection:** Flow Integration  
sampling @ 100Hz

**Accuracy when operated in**

**temperature range:** Flow +/- 10% or +/-  
20 l/min whichever is greater

Max flow rate +/-16L/s

Min flow rate +/-0.02L/s

**Volume Accuracy:** +/- 3% or +/- 0.05 l  
whichever is greater

**Maximum Displayed Volume:** 9.99 Litres

**Performance Standards:** ATS/ERS 2005  
& EN13826

**Safety Standards:** EN ISO 60601-1:2005  
-1 -2 -4

**Designed & Manufactured Under:**

Medical Devices Directive  
93/42/EEC 1993 ISO 13485:2003, FDA  
21CFR820, CMDR & JPAL

**Communications:**

USB (using converter) and RS232

## Ordering Info:

Catalogue No.

20242	SafeTway® Mouthpieces (200)
20303	Disposable Noseclips (200)
20980	Mini SafeTway® Mouthpieces (50)
20991	Long SafeTway® Mouthpieces (130)
43104	Plastic Mouthpieces (150)
36020	3-L Precision Syringe
63053	Flowheads (1)
73302	PC Software
2110201	Hydrophilic Filters (20)
2110203/4	Action Plan Labels 4/3 zone (25)
63505	Intelligent printer cable
63502	Serial cable for 2110
65030SPR	Vitalograph Reports Utility
77051	USB to Serial converter



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