



the difference is clear

Vitalograph PEF/FEV₁ Diary

For the accurate measurement and collection of PEF, FEV₁ and Diary data for home recording

The Vitalograph PEF/FEV₁ Diary is ideal for subjects to take home for measuring and capturing PEF, FEV₁ 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/FEV₁ 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/FEV₁ 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/FEV₁ 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 FEV₁ 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/FEV₁ Diary

Model No: 2110

Size: 145mm x 70mm x 87mm

Weight: 147g (without PP3 battery)

Parameters: PEF; FEV₁

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/EEC1993 ISO 13485:2003, FDA
21CFR820, CDMR & JPAL

Communications:

USB (using converter) and RS232

Ordering Info:

Catalogue No.

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|-----------|----------------------------------|
| 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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