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.

www.vitalograph.com
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 Kamps, R J Roorda, P L P Brand Thorax 2001;56:140-142

Evaluation of an electronic hand held spirometer in patients with asthma
S-Hamid, Z.M.Corden, D.Prryan, I.Burnett, G.M. Cochrane
Respiratory Medicine (1998) 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 Requirements: 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 f 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 +/- 0.05l 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 ISO 13485:2003, FDA
21 CFR 820, 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)
63505 Intelligent printer cable
77051 USB to Serial converter

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