Witalograph Gold Standard+

www.vitalograph.com

Volume Displacement spirometer

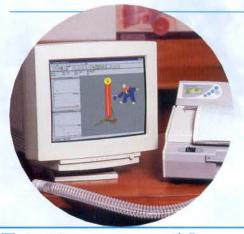
...with Intelligence



- automatic calculation of all selected indices
- interfaces directly with PC and Spirotrac Software for archiving and trending
- connect to any PCL A4 printer for printing of test results and curves
- audio-feedback allows the operator to observe the subject during test
- a real-time clock automatically records the date and time of every test
- built-in quality of test criteria and selection of best tests to ATS or ERS criteria
- v temporary storage for up to 160 tests



- high accuracy, direct volume measurement, linearised litre by litre
- automatic BTPS correction all results
- 12-second chart plus 30s continuous accumulation possible for COPD patients











Witalograph Gold Standard+

www.vitalograph.com

Features ...

- ▼ guaranteed 40 years storage life of chart from inkless stylus plus electronic archive
- use with SafeTway for expiratory or BVF for inspiratory type tests with assured hygiene
- ▼ the long breathing tubes minimise the risk of cross-contamination between subjects (optional machine washable tubes available)
- ▼ wedge type bellows design measuring system
- provides a permanent hard copy record of all tests carried out

- ▼ large chart for real-time graphics
- subject ID and demographics can be uploaded from PC
- ▼ QA messages after every test
- the highest degree of accuracy in spirometry for FVC, FEV1 and FEV1%
- compares patients' test results against predicted values
- ▼ direct connection to full size printer
- ▼ available without printer option

Technical Specifications ...

| • | Parameters measured: | configurable | by | operator |
|---|----------------------|------------------|----|----------|
| | | | | |

- ▼ Measuring principle: dry wedge type bellows
- ▼ Measuring accuracy: better than +3%/50mL (ATS 1994)
- ▼ Linearity:litre-by-litre system
- ▼ Weight:9.1 Kg
- ▼ Back pressure: <2.5cmH₂O/L/s (Complies to ATS 1994)
- ▼ Volume measurement: direct
- ▼ Maximum recorder volume: . . 8 L BTPS @ 23°C (Using 12-s charts)

Model 2160

| ₩. | Power supply: | 10v DC v | ia PowerSAFE |
|----|---------------|----------|--------------|
|----|---------------|----------|--------------|

▼ Maximum test duration: 12 s dynamic (30-s VC)

▼ Leakage rate: 0.038L/min max. @ 4L, 300g load

▼ Recording speed: 20mm/sec over 12 sec

▼ Timing accuracy:±1% of measured time (ATS 1994)

▼ Activation volume: 0.04 L

▼ Operating temp. (physiological): 15 – 37°C

▼ Safety standards: CE mark, EN60601-1/2

▼ Spirometry standards: ATS '94, ERS '93

Ordering Information ...

81600Vitalograph Gold Standard Plus

70000 Spirotrac PC software

20505 Pedestal Stand

204081-L precision syringe

36020 3-L syringe

2120505 Intelligent Printer Cable

215010012-s Charts (200)

2150400Washable breathing tubes (5)

2150300Long breathing tubes (10)

20242 SafeTway mouthpieces (200)

20303 Noseclips (10)

28350BVF (50)

20991Long SafeTway mouthpieces (130)

17105Simple Measurement Booklet

14353Spirometry Teaching CD

14001Spirometry Workshop

Single Use Disposables ...



When expiratory testing only, the low cost SafeTway™ mouthpiece can be used. Designed to prevent cross-infection during pulmonary function testing, it has a one-way valve to prevent subjects accidentally breathing in through the spirometer.

Adaptors to fit most types of PFT equipment





When inspiratory and expiratory testing, the Bacterial/Viral Filter should be used. Designed specially for pulmonary function testing, the low back-pressure filter has a bacterial and viral cross-contamination reduction efficiency of 99.99%.

Adaptors to fit most types of PFT equipment



from **Titalograph**

... the spirometry people



Vitalograph Ltd. • Maids Moreton • Buckingham • MK18 1SW • England • Tel: +44 (0) 1280 827110 • Fax: +44 (0) 1280 823302 • E-mail: sales@vitalograph.co.uk Vitalograph GmbH. • Jacobsenweg 12 • 22525 Hamburg • Germany • Tel: (040) 547391-0 • Fax: (040) 547391-40 • E-mail: info@vitalograph.de Vitalograph Inc. • 13310 West 99th Street • Lenexa • Kansas 66215 • USA • Tel.: (913) 888 4221 • Fax: (913) 888 4259 • E-mail: vitcs@vitalograph.com Vitalograph (Ireland) Ltd. • Gort Road Business Park • Ennis • Co. Clare • Ireland • Tel.: (065) 6864100 • Fax: (065) 6829289 • E-mail: sales@vitalograph.ie Internet: www.vitalograph.com