

Respiratory Muscle Strength Assessment

Centralized respiratory muscle endpoints
including MIP, MEP, SNIP, IFR and PCF

Respiratory muscle strength (RMS) assessments help demonstrate the dynamics of inspiratory and expiratory muscle strength. Peak cough flow (PCF) is used to estimate the effectiveness of mucus clearance and expiratory muscle function. RMS and PCF assessments are relevant to subjects with respiratory muscle weakness, and are mainly used in assessment of neuromuscular disorders.

Vitalograph® offers a suite of respiratory muscle strength assessments on the user friendly **COMPACT™ Medical Workstation with RMS**, a validated medical device for clinic use. The device includes an integral spirometer plus MIP/MEP/SNIP testing port and flowheads.



Integrated RMS Test Types

- Maximal inspiratory pressure (MIP)
- Maximal expiratory pressure (MEP)
- Sniff nasal inspiratory pressure (SNIP)
- Inspiratory Flow Reserve (IFR)
- Peak Cough Flow (PCF)

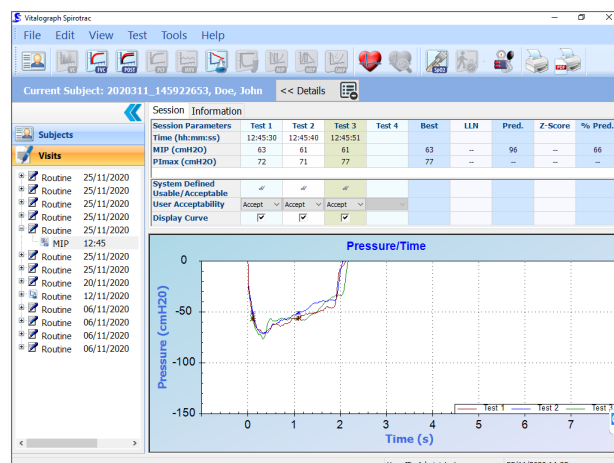
With over 41 million operational hours at clinical trials sites, the COMPACT Medical Workstation is the ideal solution for clinic based studies. A cost effective solution, it acts as a hub to centralize subject management, integrating other devices to provide a complete centralized repository for clinical data based on study requirements.

The COMPACT Medical Workstation with RMS is supplied as a system with options of MIP/MEP flowheads, SNIP nasal probes, modules for IFR and PCF and other integrated devices to meet protocol requirements.

COMPACT Medical Workstation runs Vitalograph Spirotrac software adapted to meet specific protocol requirements. Spirotrac software supports automated quality feedback and streamlines protocol driven workflows. Data is saved to the device and once transmitted, is viewable via Vitalograph Web Portal. The device can host questionnaires and centralize data from a range of integrated medical devices.

Features

- Centralized subject and endpoint management
- Specific software visit workflow for your clinical study
- Secure, encrypted data transmission direct to Vitalograph data servers via WiFi or wired connection
- Over-Read 360® provides expert analyst review and reconciled feedback for better quality data
- Software adapted to the needs of each study
- One device can host multiple protocols
- High resolution touch screen
- Automated software updates
- Spirotrac® meets ATS/ERS spirometry and respiratory muscle testing guidelines



Technical Specification

Product	Vitalograph COMPACT
Model	6600
Dimensions	375mm x 235mm x 110mm
Weight	Net: 2.5kg
Power Supply	19V DC
Class	II (USA) / IIa (EU)
Communications	USB 2.0 min 4, Serial RS232 x 2, Ethernet x2, DVI Video Display Interface
Designed and Manufactured Under	ISO 13485, FDA 21 CFR 820, SOR 98/282 and JPAL
Flow Detection Principle (Spirometry)	Fleisch type pneumotachograph
MIP MEP SNIP Measurement Range	0 to 300 cm H ₂ O
Spirometry Test Types	Single breath tests, flow/volume loops, multi-breath testing, tidal breathing Including PCF and IFR
Volume Accuracy	Better than +/- 2.5%

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