

# Pneumotrac with RMS

An enhanced diagnostics solution that combines highly accurate **Respiratory Muscle Strength** and **Spirometry** testing in one robust, portable device.



# The importance of Respiratory Muscle Strength testing

Assessing respiratory mechanics and muscle function is critical for both clinical practice and research purposes. It is particularly useful in patients with neuromuscular diseases to contribute to diagnosis and to assess treatment efficiency.<sup>1</sup> The American Thoracic Society (ATS) suggest routine evaluation of FVC, MIP, MEP, and PCF for patients with Duchenne-type muscular dystrophy (DMD)<sup>2</sup>.

*MIP is used for the early evaluation of respiratory muscle strength, especially of the diaphragm in patients with neuromuscular disease (Schoser et al., 2017)<sup>3</sup>*

## PNEUMOTRAC with RMS

**Multiple respiratory diagnostics.  
One portable device.**

The Pneumotrac™ with RMS (Respiratory Muscle Strength) is a PC-based system that combines respiratory muscle strength measurements and spirometry – offering multiple testing possibilities on a single device, as portable as your laptop.

It can be used in various settings such as in-clinic on a desk, or it can be placed on a trolley with a laptop for use at bedside.



## Provides the full range of respiratory diagnostic tests

The Pneumotrac™ with RMS is a powerful and flexible respiratory diagnostic device. Alongside detailed spirometry testing, it provides a non-invasive and simple approach to mouth pressure and nasal pressure measurements in both adults and paediatrics. It can be used to

- **assess** diaphragmatic weakness in patients with neuromuscular disease (NMD)
- **assess** respiratory muscle strength in patients undergoing pulmonary rehabilitation e.g., COPD patients
- **monitor** the response of respiratory muscle training

Diagnostics	Pneumotrac with RMS	Standard Pneumotrac
Maximum Inspiratory Pressure (MIP)	✓	
Maximum Expiratory Pressure (MEP)	✓	
Sniff nasal inspiratory pressure (SNIP)	✓	
Upright and Supine Spirometry (VC and Post VC)	✓	✓
Peak Cough Flow (PCF)	✓	✓
Forced Vital Capacity (FVC) and Post Bronchodilator	✓	✓

# All the benefits of the market leading Pneumotrac Spirometer with the addition of respiratory muscle strength measurements

## Easily Interpreted Results

- Overlay of successive curves for consistent results.
- Multiple options for displaying of graphs.
- Fast evaluation of results with %Predicted comparison.
- Customisable pdf reports.

## Onscreen Testing Guidance

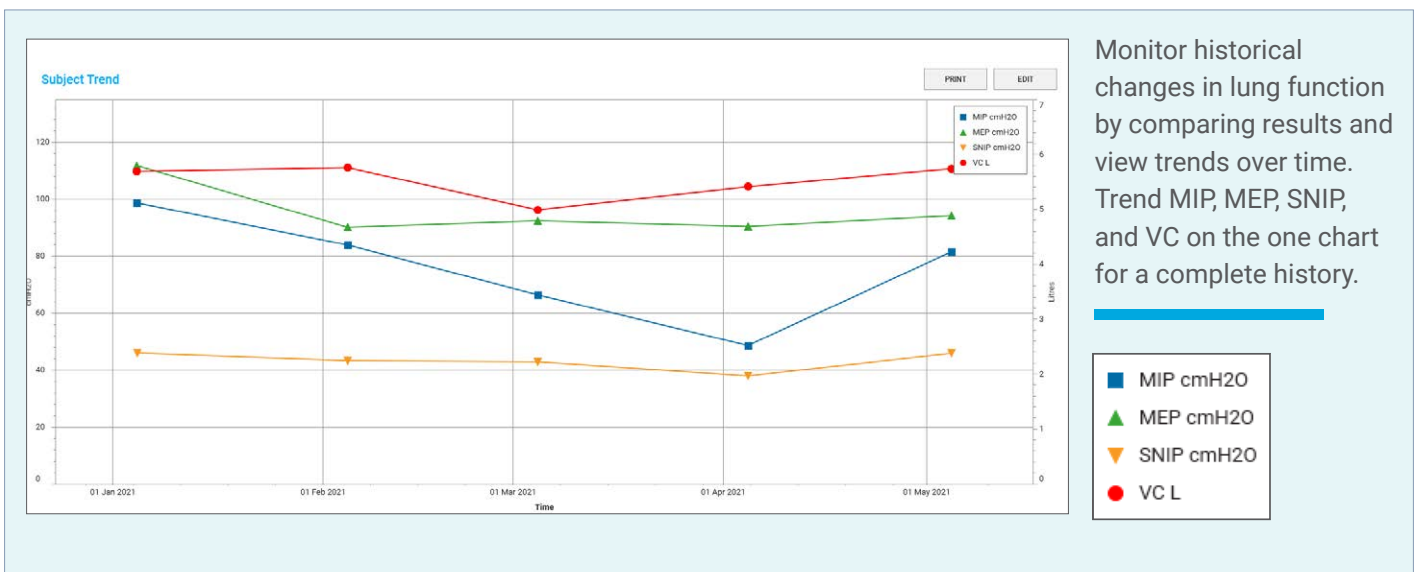
- Instant test quality feedback as per ATS/ERS guidelines ensuring maximum pressure sustained for 1 second can be recorded.
- Repeatability feedback for rapid and easy testing.
- Real-time display of pressure/time curve on Spirotrac® 6 software

## Exceptional Test Accuracy

- A high resolution of 0.1 cmH<sub>2</sub>O has superior accuracy when compared to similar devices.

## Hygienically Efficient

- Low running costs and environmentally friendly: no costly disposable sensors, turbines, or flow tubes.
- Single-use Vitalograph Bacterial Viral Filters (BVF™) with validated cross-contamination efficiency >99.999%, protect device, patient, and operator



1. Laveneziana P, Albuquerque A, Aliverti A, et al. ERS statement on respiratory muscle testing at rest and during exercise. Eur Respir J 2019; 53: 1801214  
2. American Thoracic Society. Respiratory care of the patient with Duchenne muscular dystrophy. ATS consensus statement. Am J Respir Crit Care Med 2004;170:456-465.  
3. Schoer, B., Fong, E., Geberhiwot, T., Hughes, D., Kissel, J. T., Madathil, S. C., Orlikowski, D., Polkey, M. I., Roberts, M., Tiddens, H. A., & Young, P. (2017). Maximum inspiratory pressure as a clinically meaningful trial endpoint for neuromuscular diseases: a comprehensive review of the literature. Orphanet journal of rare diseases, 12(1), 52. <https://doi.org/10.1186/s13023-017-0598-0>

# Technical Specifications

**Product:** Vitalograph Pneumotrac with RMS  
**Model:** 6800  
**MIP MEP SNIP Measurement Range:** +/- 300 cmH2O  
**Accuracy:** +/- 3  
**Resolution:** 0.1 cmH2O  
**RMS Test Types:** MIP, MEP, SNIP, PCF, Supine VC  
**MIP Parameters:** MIP, PIP  
**MEP Parameters:** MEP, PEP  
**SNIP Parameters:** SNIP  
**Predicted Sets:** Wilson, Stefanutti/Uldry/Fitting



Free 5-Year warranty included with product registration.

## Ordering Information

Product Model Number	Customer Order Number	Product Description
6800	77972	Vitalograph Pneumotrac with RMS <sup>1</sup>

\*1 Includes Spirotrac 6 PC software

## Optional Extras / Consumables

Product Model Number	Customer Order Number	Product Description	Product Box Size
2820	28551	Eco BVF + Silicone Bite-On Mouthpiece + Disposable Nose Clip	60
	28553	Eco BVF with Plastic Bite Lip + Disposable Nose Clip	75
	28554	Eco BVF with Plastic Bite Lip	75
	28572	Eco BVF for Office Spirometers + Disposable Nose Clip	80
	28501	Eco BVF for Office Spirometers	100
3290	32956	SNIP Nasal probes consisting of 10 x Small, 10 x Medium, and 10 x Large	30

## Contact us

Our trained customer service team are available for telephone support on sales, technical queries or information requests.

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