

Based on proven, validated Bedfont Scientific FeNO technology, Medisoft and MGC Diagnostics introduce the newest addition to the Exhaled Nitric Oxide line

# FeNObreath®

Measure exhaled breath nitric oxide for airway inflammation with the FeNObreath® portable monitor



FeNObreath® portable device, for use on pediatric and adults patients :

## Features :

- **Portable**, light, transportable, battery operated device can be used in the hospital or at remote locations (schools, work places, screening programs etc.), stores patients results in its memory for later download.
- **Single patient mouthpiece** for safe testing at economical cost/test: the FeNObreath mouthpiece is a single patient use and incorporates a one-way valve to prevent air to be drawn back from the monitor. The mouthpiece itself is specifically designed with an integrated filter to remove > 99% of airborne bacteria and > 96% of viruses.
- Downloads, **integrates data in the Medisoft Expair PC software** for storage, reporting, trending.
- FeNO results can be **added to Spirometry and other pulmonary function test results and reports**, as well as to the table-top Medisoft FeNO+ data output, completing the powerful, exclusive “asthma

diagnostics station” that Medisoft features as an exclusive system.

- In combination with Resmon Pro Full FOT (Forced Oscillatory Technique) results allows unique **combined obstruction and inflammation detection**, for asthma early detection, management programs and screening.
- **Color touch-screen display**, easy intuitive test with simple menu driven procedure:



## Benefits of performing FeNO tests:

- Non-invasive, quick and easy to perform<sup>1</sup>
- Shows patient's response to treatment, enabling the correct prescription of medication and safer/monitored adjustments
- Shows patient adherence to treatment

- Assists in identifying patients who do/do not require on-going treatment<sup>2</sup>
- Aids in differentiating between allergic (eosinophilic) and non-allergic asthma<sup>3</sup>

## References

1. Andrew D. Smith, Jan O. Cowan, Sue Filsell, Chris MacLachlan, Gabrielle Monti-Sheehan, Pamela Jackson and D. Robin Taylor. Diagnosing Asthma: Comparisons between Exhaled Nitric Oxide Measurements and Conventional Tests. Am J Respir Crit Care Med Vol 169. pp 473-478, 2004.
2. D R Taylor, MW Pinenburg, A D Smith and J C D Jongste. Exhaled nitric oxide measurements: clinical application and interpretation. Thorax 2006;61:817-827.

3. Coumou HBel E. Improving the diagnosis of eosinophilic asthma [Internet]. Taylor and Francis online. 2017 [cited 15 March 2017]. Available from: <http://www.tandfonline.com/doi/full/10.1080/17476348.2017.1236688>.



## Technical specifications:

Concentration range		0 - 500ppb
Display		Full colour touchscreen
Detection principle		Electrochemical sensor
Repeatability		± 5ppb of measured value ≤ 50ppb ± 10% of measured value > 50ppb
Accuracy		± 5ppb of measured value ≤ 50ppb ± 10% of measured value > 50ppb
Power	NObreath® monitor	1 x main rechargeable Li-ion battery - Approx. 100 uses on fully charged battery 2 x Li-ion coin cell battery - Approx. 5 years Input: 5V, 0.5A
	NObreath® Dock	Mains powered Input: 5V, 0.5A Output: 5V, 0.5A
	Plug	Input: 100 - 240V ~ 50/60Hz, 0.2A Output: 5.0V, 1.0A
T <sub>90</sub> response time		≤ 10 seconds
Operating temperature		10 - 30°C
Storage/transport temperature		0 - 40°C
Operating/storage/transport pressure		Atmospheric ± 10%
Operating humidity		25 - 75% non-condensing
Storage/transport humidity		0 - 95% non-condensing
Sensor operating life		5 years (Subject to correct use, maintenance and service)
Sensor sensitivity		1ppb
Sensor drift		< 5% per annum
Dimensions		Approx. 90 x 159 x 59mm
Weight		Approx. 400g
Materials	NObreath® monitor	Case: polycarbonate/abs blend SteriTouch® anti-microbial additive
	NObreath® Dock	
	NObreath® mouthpiece	Polypropylene
Breath test time		Adult: 12 seconds Child: 10 seconds Ambient: 30 seconds
Warm-up time		≤ 60 seconds
Maximum ambient operating level		350 ppb NO
CO cross interference		45ppm ≤ 17.6 ppb

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A MGC Diagnostics subsidiary



FeNObreath® is a product made by Bedfont Scientific, UK



FeNO trend graph with Expair PC software

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