

FeNObreath®

NO analyzer



MEASURE EXHALED BREATH NITRIC OXIDE FOR AIRWAY INFLAMMATION WITH THE FeNObreath® PORTABLE MONITOR

Based on proven, validated Bedfont® Scientific Ltd. FeNO technology, MGC Diagnostics International introduces the newest addition to the Exhaled Nitric Oxide lines.

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

- 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/patient: the FeNObreath® mouthpiece is a single patient use and is specifically designed with an integrated filter to remove > 99% of airborne bacteria and > 96% of viruses.
- Downloads, integrates data in the Medisoft Expair II PC software for storage, reporting, trending, integrate data with other MGCD devices. Expair can be used to display in Real time the FeNObreath® measurement.
- 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 V3 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 perform¹
- Shows patient's response to treatment, enabling the correct prescription of medication and safer/monitored adjustments
- Shows patient adherence to treatment²
- Assists in identifying patients who may or may not require on-going treatment³
- Aids in differentiating between allergic (eosinophilic) and non-allergic asthma⁴

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. Beck-Ripp J, Griesem, Koring C, Pasqualoni B, Butler P. *Changes of exhaled nitric oxide during steroid treatment of childhood asthma.* Eur Respir J 2002;19:1015-1019.
3. 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.
4. 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/10.1080/17476348.2017.1236688>

Technical Specifications:

Concentration range		5 - 500ppb
Display		Full color Touchscreen
Detection principle		Electrochemical sensor
Repeteability		± 5ppb of measured value ≤ 50ppb ± 10% of measured value > 50ppb
Accuracy		± 5ppb of measured value ≤ 50ppb ± 10% of measured value > 50ppb
Power	FeNObreath® 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
	FeNObreath® Dock	Mains powered Input: 5V 0.5A Output: 5V 0.5A
	Plug	Input: 100 - 240V - 50/60Hz, 0.2A Output: 5V 1.0A
T50 response time		≤ 10 seconds
Operating temperature		15 - 30°C
Storage/transport temperature		0 - 50°C
Operating/storage/transport pressure		920 - 1080mbr
Operating humidity		20 - 80% non-condensing
Storage/transport humidity		9 - 95% non-condensing
Sensor operating life		5 years (Subject to correct servicing)
Sensor sensitivity		1ppb
Sensor drift		< 5% per annum
Dimensions		Approx. 90 x 159 x 59mm Approx. 3,54 x 6,25 x 2,32 inches
Weight		Approx. 400g
Materials	FeNObreath® monitor	Case polycarbonate/abs blend
	FeNObreath® Dock	SteriTouch® anti-microbial additive
	FeNObreath® mouthpiece	Polypropylene
Breath test time		Adult: 12 seconds Child: 10 seconds Ambient: 30 seconds
Warm-up time		≤ 60 seconds
Maximum ambient operating level		350ppb NO
CO cross interference		45ppm ≤ 17.6ppb
Note		Exhaled flow during FeNO measurement at 50ml/sec ± 10% at 10cm H2O

DESIGNED, DEVELOPED AND MANUFACTURED BY:



Bedfont Scientific Ltd, UK