NObreath®

Aids in the diagnosis & management of asthma, one breath at a time.

FeNO monitoring made easy!

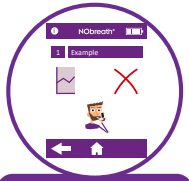
Benefits of monitoring FeNO with the NObreath®

- Non-invasive, quick and easy to perform[1].
- Shown to be superior to the majority of conventional tests of lung function, such as peak flow recording and spirometry[1].
- Aids in identifying patients who do/do not require on-going treatment[2].
- Aids in differentiating between allergic (eosinophilic) and non-allergic asthma[3].
- Aids in asthma management, assisting the correct prescription and making monitored adjustments.
- Shows patient adherence to treatment[4].

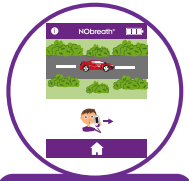
Exclusive NObreath® forum

FREE FeNOchart™ patient management software

Adult, child & ambient test modes



Create & save patient details



Onscreen animated flow meter for motivation

Ideal For:

- GP's
- Respiratory Nurses
- Clinicians
- Medical Students

Features and Benefits

- Clinically proven
- Low maintenance
- FeNO testing without limits*
- Adult & child testing
- Easy to use
- Fairly Priced

*** Subject to correct use, maintenance and service. Tested up to 29,000 tests.**

SDK by Bedfont® Scientific Ltd. NObreath® Integration

Our NObreath® SDK is designed to enable you to integrate the functionality of NObreath® FeNO devices into your software application. Whether you're building an app for asthma management or personalised wellness, our SDKs provide secure, compliant, and straightforward connectivity. Give your users the power of clinical-grade insights with just a few lines of code.

For more information and to apply please visit: https://www.bedfont.com/sdk/

www.nobreathfeno.com

Technical Specification

Concentration range		5 - 500 ppb
Display		Full colour touchscreen
Detection principle		Electrochemical sensor
Repeatability		± 5 ppb of measured value ≤ 50 ppb ± 10% of measured value > 50 ppb
Accuracy		± 5 ppb of measured value ≤ 50 ppb ± 10% of measured value > 50 ppb
Power	NObreath® Device	1 x main rechargeable Li-ion battery – Approx. 100 uses on fully charged battery Model: RRC1120. Voltage: 3.6 V / 3.7 V Capacity: 2350 mAh / 2000 mAh 2 x Li-ion coin cell batteries – Approx. 5 years Model: LIR2032/LIR2032H. Voltage: 3.7 V. Capacity: 45 mAh/70 mAh Model: LIR2450. Voltage: 3.7 V. Capacity: 120 mAh
	Plug	Input: 100 - 240 V ~ 50/60 Hz., 0.2 A Output: 5.0 V, 1.0 A
T_{90} response time		≤ 10 seconds
Temperature	Operating	15 - 30°C
	Storage/transport	0 - 50°C
	Calibration	21°C ± 4°C (17°C - 25°C)
Humidity	Operating	20 - 80% RH (non-condensing)
	Storage/transport	5 - 95% RH (non-condensing)
Operating/transport/ storage altitude		-1700 ft. to 6300 ft.
Operating/transport/storage pressure		800 – 1080 mbar
Expected sensor operating life		5 years (subject to servicing)
Limit of Detection		5 ppb
Sensor drift		< 5% per annum
Dimensions		Approx. 90 mm x 159 mm x 59 mm
Weight		Approx. 400 g
NObreath® Materials		Case: polycarbonate/ABS blend with antimicrobial technology
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		45 ppm ≤ 17.6 ppb

NOTE: Exhaled flow during FeNO measurement at 50 ml / sec ± 10% at 10 cm H_2O.

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
4. Beck-Ripp J, Griese M, Arenz S, Koring C, Pasqualoni B, Bufler P. Changes of exhaled nitric oxide during steroid treatment of childhood asthma. Eur Respir J 2002;19:1015–1019.

Visit www.bedfont.com/resources to view this document in other languages.

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