



Bedfont NObreath



Circassia NIOX VERO

Sensor lifetime	5 year sensor life. Sensor must be calibrated annually and device's ambient NO scrubber replaced, £150pa from years 1-4. Year 5 service, all replacement parts replaced inc. sensor, scrubber, battery, drying cartridge and full device refurbishment, £600. Annual service then repeated until year 10.
Accuracy and repeatability	Repeatability: $\pm 5\text{ppb}$ of measured value $\leq 50\text{ppb}$ $\pm 10\%$ of measured value $> 50\text{ppb}$ Accuracy: $\pm 5\text{ppb}$ of measured value $\leq 50\text{ppb}$ $\pm 10\%$ of measured value $> 50\text{ppb}$
Device lifetime	In testing the device has completed in excess of 29,000 tests and if serviced correctly each year should last indefinitely.
Calibration methods	Returned to Intermedical for annual calibration or replacement sensor and scrubber sent directly.
Full kit requirements	NObreath unit, mouthpieces (boxes of 50), charging dock (can be charged without the dock via the usb cable).
Clinical and technical support available	Both Intermedical and Bedfont Scientific Ltd. have dedicated technical support and service teams. A clinical advisor is available for anything clinical related as well as a NObreath FeNO forum. The sales teams are fully trained in use of the device and can also advise from a clinical aspect.
Battery lifetime and recharging	The device has an internal rechargeable battery which allows the device to perform up to 100 tests when fully charged. The battery life expectancy is 5 years. It can be charged via the charging dock or USB cable.
Home use guidance	The device is designed to be fully portable and although not indicated or sold to the public, the NObreath has been provided by some NHS trusts for chronically ill patients at the discretion of the physician.
Cut offs for ppb NO	5-500 PPB
Mouthpiece single patient no of uses	1 mouthpiece can be used multiple (up to 15) times by the same patient during a single visit. It should then be disposed of.
Disposal method	The mouthpiece is fully recyclable polypropylene and should be disposed of after use in accordance with local clinical waste guidelines.
How does result appear	In the centre of the screen as a single number (ppb).
Contact details	Marc McDonnell – Sales Manager UK & Ireland - Intermedical - marc.mcdonnell@intermedical.co.uk Damien Gregory - NObreath Product Manager – Bedfont - Damieng@bedfont.com www.nobreath.co.uk/nobreath-feno-monitor/

Sensor lifetime	The Sensors are separate and are placed in in the back of the device and have an operational lifespan of 12 months . The breathing handle does not contain the sensor and has a CE validated lifetime of one year. The Device is CE marked and guaranteed accuracy for its 5 years or 15,000 test lifetime. The test kits are available in 100, 300, 500 and 1000 unit sizes and come with the corresponding sensor and breathing handle.
Accuracy and repeatability	Accuracy: Each sensor is individually calibrated and undergoes accuracy testing measured with standard Nitric Oxide reference gas. Repeatability: Intra-subject reproducibility 0.7 ppb. Inter-operator repeatability 0.25 ppb. NIOX VERO provides an accurate reading in a single measurement.
Device lifetime	Maximum 5 years in use or 15 000 measurements or the expiration date stated on the device, whichever comes first. The user is prompted for expiry parameters via the device display. It is not possible to perform further measurements after expiry, although stored measurement data can still be retrieved.
Calibration methods	Does not require calibration and has no servicing requirements throughout its 5 year lifetime. When switching the device on, it will check the surrounding temperature and humidity. The breathing handle contains the uniquely designed NO scrubber which removes NO from ambient room air to enhance accuracy and only reads the NO in the airways.
Full kit requirements	The device is supplied with mains lead, battery and breathing handle. The sensor and mouth-filters are supplied in line with the test kit size ordered.
Clinical and technical support available	Dedicated Key Account Manager & Lead Respiratory Nurse Education and Support. A Circassia Technical Support Hotline is available to provide remote diagnostic support if required.
Battery lifetime and recharging	Approx. 30 measurements per day or 36 hours stand-by in 25°C environment condition. Charging time: <8 hours under normal conditions.
Home use guidance	The device has been designed for accuracy and portability and although not indicated or sold directly to the public it has been provided by some Trusts for home utilisation at the discretion of the physician.
Cut offs for ppb NO	5 to 300 ppb. Lowest Detection Limit: 5 ppb.
Mouthpiece single patient no of uses	The patient can repeat the test using the same mouth filter in the same session until successful test achieved.(max 10 times) This assures that the reading the device provides has the high degree of accuracy. Therefore only one mouth filter is needed per test per patient.
Disposal method	Used patient filters should be recycled according to the local recycling program for biohazard waste.
How does result appear	The Feno measurement will appear in approximately 1 minute on the screen in parts per billion.
Contact details	Mark Dodd – National Market Access Executive – Circassia - mark.dodd@circassia.com Karen Frankland – Lead Nurse Education and Support – Circassia - karen.frankland@circassia.com www.niox.com