

NObreath®

Fractional Exhaled Nitric Oxide (FeNO) Device

User Manual



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

Definitions

WARNING: Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.

CAUTION: Indicates a potentially hazardous situation, which, if not avoided, may result in damage to the device.

NOTE: Used to call attention to notable information that should be followed during use.

Important Information/Reminders

NOTE: Only technical data and no patient data is collected by Bedfont®.

NOTE: The NObreath® should be charged for a minimum of 24 hours before first use.

NOTE: The default PIN for the NObreath® is 0000. Bedfont® strongly advises that this PIN is changed upon installation and set-up of the device.

WARNING: Please read the manual before use.

WARNING: Never use alcohol or cleaning agents containing alcohol or other organic solvents as these vapours will damage the electrochemical sensor inside.

WARNING: Under no circumstances should the instrument be immersed or splashed with liquid.

WARNING: Breath tests must only be carried out with Bedfont® accessories. Failure to do so may cause incorrect readings.

WARNING: The mouthpieces are single patient use only and can be used for a maximum of 10 tests per breath testing session. Further re-use could cause incorrect readings and could increase the risk of cross infection. The mouthpiece should be disposed of after use, in accordance with local waste disposal guidance.

WARNING: Patients should exhale for the duration of time indicated by the device during a breath test. Failure to do so may cause incorrect readings.

WARNING: To ensure a breath sample is taken at the correct flow rate, the device must be held upright at all times during a breath test.

WARNING: Do not block the vent holes on the device at any time. Blocking the vent holes may cause erroneous readings.

WARNING: Do not allow the use of the NObreath® within 60 minutes of the following:

- Exercising
- Smoking
- Eating
- Drinking including Alcohol

WARNING: Ensure the patient does not inhale through the mouthpiece.

WARNING: Ensure the patient does not exhale beyond the limits of their physical ability.

WARNING: Ensure the patient uses a single patient use mouthpiece for performing a breath test.

WARNING: The USB port is to be used for charging the NObreath® device, this should be carried out via the supplied USB lead and also can be used for transferring encrypted patient data to and from FeNOchart™ PC Software. The NObreath® is not intended to be connected to any wireless adaptors or any other USB Host.

CAUTION: Ensure the device is used within the stated operating temperature and humidity ranges. Operating temperature is 15 - 30°C. Operating humidity is 20 - 80% RH (non-condensing).

CAUTION: Portable and mobile RF communications equipment can affect the NObreath®.

CAUTION: A great way to keep the NObreath® charged when not in use is to use the docking station included. This can be connected via the pre-approved mains adapter supplied, or plugged into a working USB port, to ensure the NObreath® has charge for when it's needed. When connecting the pre-approved mains adapter from the docking station to the mains power, please make sure that it is plugged in to a mains location that is safe and easily accessible.

CAUTION: The NO scrubber contains potassium permanganate and should not be tampered with or exposed to skin.

CAUTION: The NO scrubber contains potassium permanganate and should be disposed of as hazardous waste in accordance with local waste disposal regulations.

NOTE: Ensure the patient inhales through the mouth, before exhaling through the mouthpiece.

NOTE: Bedfont® advise the NObreath® is charged monthly to ensure calibration data is not lost.

NOTE: When selecting an accessory for the NObreath® device, please be advised that an accessory not recommended by Bedfont® may result in loss of performance and damage to the NObreath® device. The product warranty does not cover product failure or damage resulting from use with non-approved accessories.

NOTE: See Bedfont's infection control and maintenance guidelines for further information on infection control.

NOTE: Please do not attempt to modify the equipment in any way or use accessories not specified by the manufacturer. Any attempt to do so, will invalidate the warranty and may compromise the safety of the device.

NOTE: The EMISSIONS characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.

NOTE: Bedfont® will make available on request service training to appropriately qualified personnel.

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Introduction

The User Manual provides instructions on how to operate NObreath® FeNO device and its accessories. It contains relevant information about the device, its uses and its care, including step-by-step instructions with screens and illustrations.

Compliance

NObreath® is CE marked according to the Medical Device Directive 93/42/EEC.

NObreath® is RoHS compliant.

Please refer to the 'Safety Information' section of this manual for more information on the compliance of the NObreath®.

Intended Use

The NObreath® is a portable, non-invasive device for the measurement of Fractional Exhaled Nitric Oxide (FeNO) in human breath. The production of nitric oxide is often found to be increased in inflammatory conditions such as asthma. Measurement of FeNO by NObreath® is a method to measure the decrease in FeNO concentration in asthma patients that often occurs after treatment with anti-inflammatory pharmacological therapy, as an indication of the therapeutic effect in patients with elevated FeNO levels.

The fractional NO concentration in expired breath (FeNO), can be measured by NObreath® according to guidelines for NO measurement established by the American Thoracic Society.

NObreath® is intended for children, 7 - 17 years, and adults 18 years and older. NObreath® 12 second test mode is for age 7 and up.

NObreath® 10 second test mode is for ages 7 - 10 only who cannot successfully complete a 12 second test.

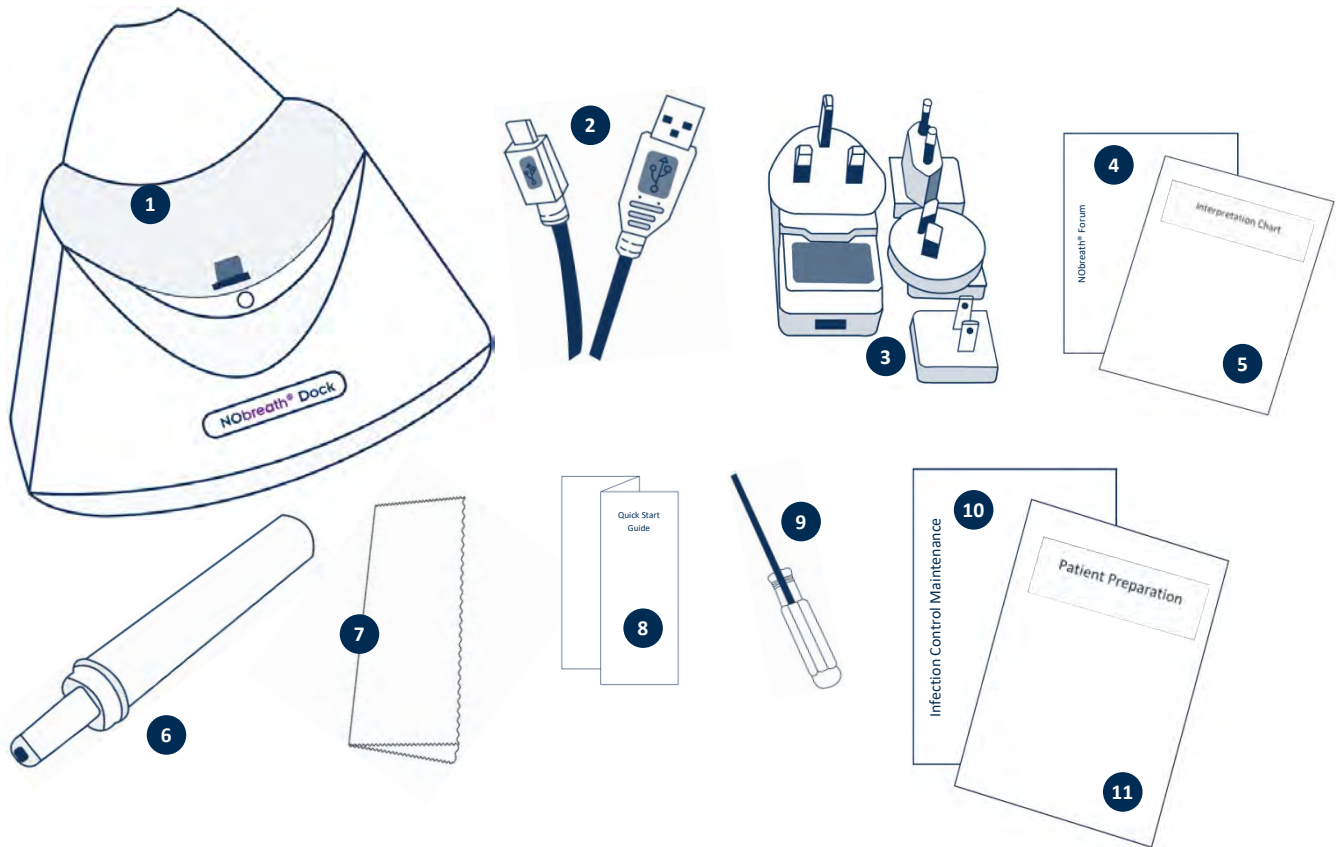
FeNO measurements provide the physician with means of evaluating an asthma patient's response to anti-inflammatory therapy, as an adjunct to the established clinical and laboratory assessments in asthma. The NObreath® cannot be used with infants or by children under the age of 7 as measurement requires patient cooperation.

NObreath® should not be used in critical care, emergency care or in anesthesiology.

Contraindications

There are no known contraindications.

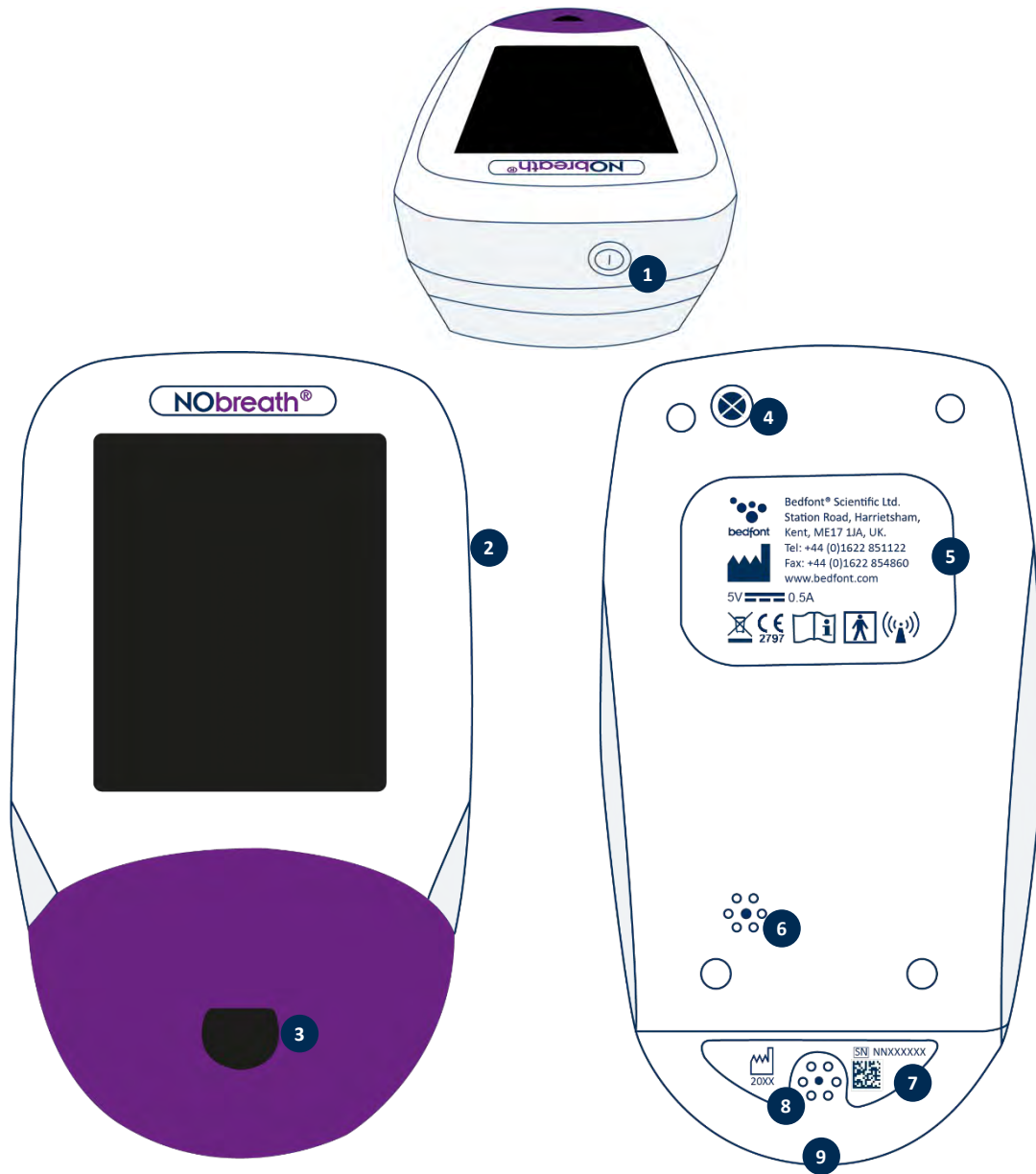
Parts and accessories



1. NObreath® Dock
2. 1.8 m USB cable
3. Mains plug and universal adaptors
4. NObreath® Forum information
5. Interpretation chart
6. NObreath® mouthpiece

7. Microfiber cloth
8. Quick Start Guide
9. Screwdriver
10. Infection Control Maintenance Guidelines
11. Patient Preparation

Instrument Layout



1. ON/OFF switch
2. Touchscreen
3. Mouthpiece aperture
4. Screw

5. Manufacturer label
6. Vent hole
7. Serial label
8. Vent hole
9. USB port

Installation and Set-up

When setting up the NObreath[®], please ensure the package contains all the parts as detailed in the 'Parts and Accessories' section of this manual. Please keep the screwdriver supplied for future servicing requirements. The NObreath[®] should be charged for 24 hours prior to first use. Remove the plastic film from the display and follow the next steps on how to charge the NObreath[®] below.

NOTE: *The NObreath[®] should not be operated in an environment outside of the temperature or humidity ranges stated in the technical specification.*

The default PIN is 0000. It is strongly recommended to change this prior to first use – please refer to the 'Change PIN' section of this manual for instructions.

When selecting an accessory for the NObreath[®] device, please be advised that an accessory not recommended by Bedfont[®] may result in loss of performance and damage to the NObreath[®] device. The product warranty does not cover product failure or damage resulting from use with non-approved accessories.

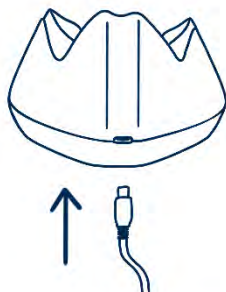
WARNING: The mouthpieces are single patient use only and can be used for a maximum of 10 tests per breath testing session. Further re-use could cause incorrect readings and could increase the risk of cross infection. The mouthpiece should be disposed of after use, in accordance with local waste disposal guidance.

How to charge the NObreath[®]

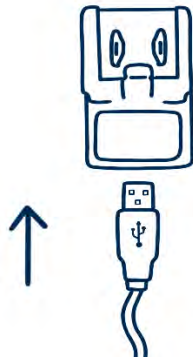
The NObreath[®] FeNO device comes with a Dock and charging cable to keep the device at hand and fully charged.

NOTE: *The NObreath[®] should be charged for a minimum of 24 hours before first use.*

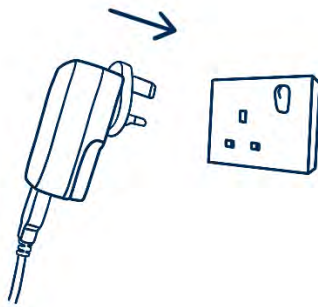
NOTE: *It is best practice to not let the battery run flat. If the NObreath[®] does not switch on, or displays the battery symbol on the last bar of charge, the NObreath[®] should be charged for 24 hours prior to use.*



To charge the NObreath[®], first make sure the micro USB cable provided is connected to the docking station.

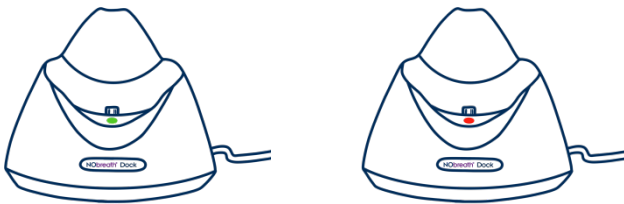


Connect the other end of the micro USB cable to the pre-approved mains adapter supplied, using the appropriate universal adapter.

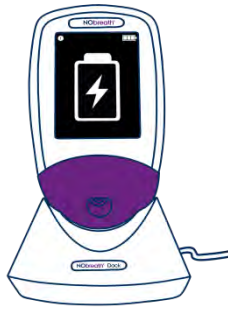


Plug the pre-approved mains plug into the mains power.

CAUTION: When connecting the pre-approved mains adapter from the docking station to the mains power, please make sure that it is plugged in to a mains location that is safe and easily accessible.



When receiving power, the LED on the Dock will light up green and the NObreath® can be placed in the Dock to charge. If the LED light is red, please see 'Troubleshooting'.

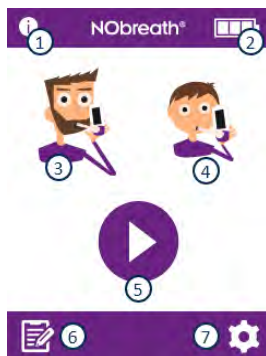


Place the NObreath® device into the Dock. The screen will indicate that the device is charging if powered off.



Alternatively, the NObreath® FeNO device can be charged by plugging the micro USB cable provided directly into the NObreath®. This can then be connected either to the pre-approved mains adapter or into a computer USB port.

User Interface



Home Screen

1. Information button
2. Battery status
3. Adult breath test
4. Child breath test
5. Demo mode
6. Patient profiles
7. Settings

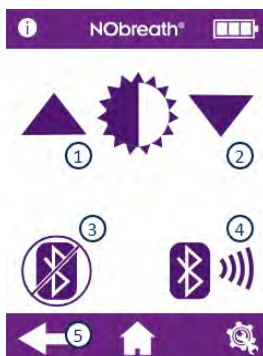


The information screen displays information about the device and sensor.



Settings Menu Page 1

1. Date and time options
2. Test log
3. Change PIN number
4. Enable/disable PIN use
5. Change flow-meter style
6. Start ambient air test
7. Service Area
8. Home button
9. Go to Settings Menu Page 2



Settings Menu Page 2

1. Increase screen brightness
2. Decrease screen brightness
3. Enable/disable Bluetooth®
4. Bluetooth® pairing PIN
5. Go to Settings Menu Page 1

Demo mode



The NObreath® has an in-built demonstration video of the breath test process. It is recommended to watch this video prior to using the device for the first time. This demo can also be used to explain to patients how the test will run, prior to performing one.

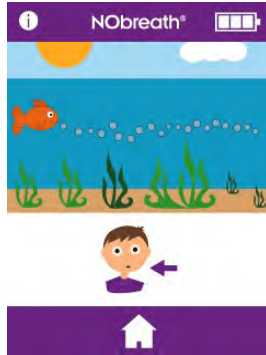
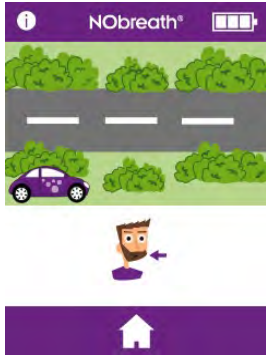
Press the demo icon to begin.



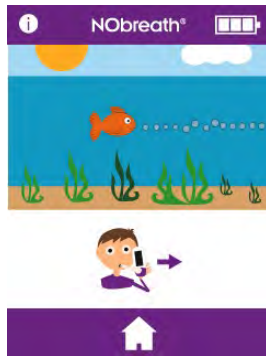
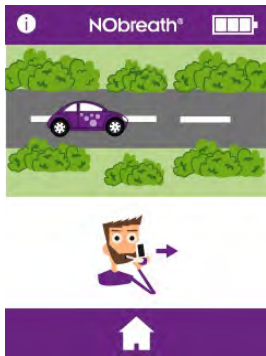
Select either the adult or child patient.



The zero screen will briefly display as in a real test.



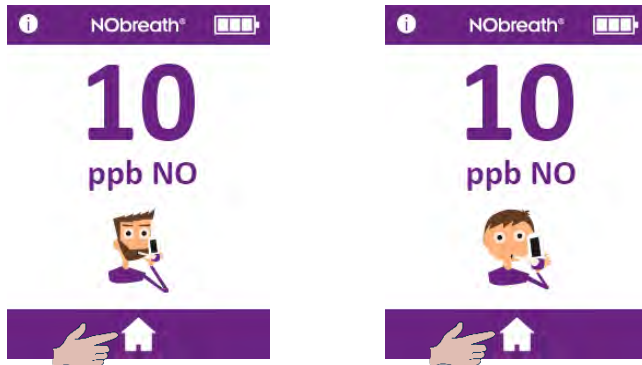
A demonstration will run through the breath test process.



The whole test will be shown, but at an accelerated speed.



Only a successful test will be demonstrated.



Once the result is displayed, the demo is complete.

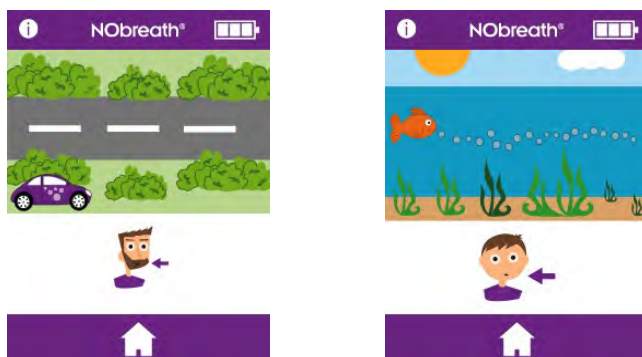
Press the home icon to return to the home screen.

Performing a Breath Test



Open and insert a new mouthpiece into the NObreath® device.

To start a breath test, select either the adult or child patient.

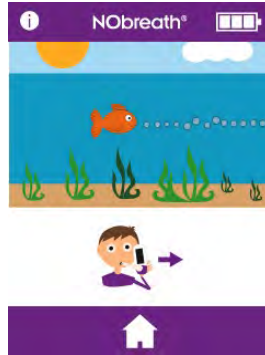
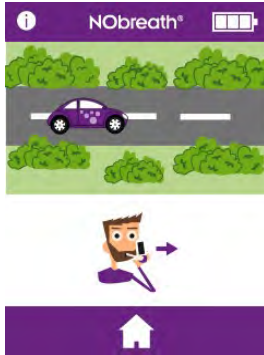


As prompted onscreen, take a deep breath.

WARNING: Do not inhale through the mouthpiece.

NOTE: Ensure the patient inhales through the mouth, before exhaling through the mouthpiece.

Press the home button at any time to cancel the breath test.

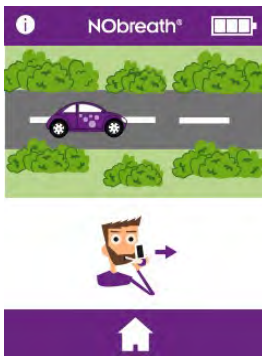


When the exhale icon displays, keep the device upright and blow gently into the mouthpiece.

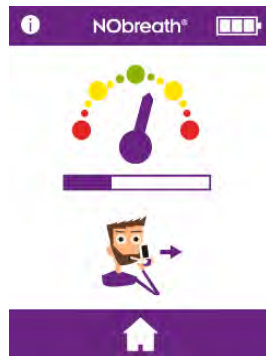
NOTE: Make sure the vent holes are not covered.

The exhalation time is approximately 12 seconds for an adult and 10 for a child.

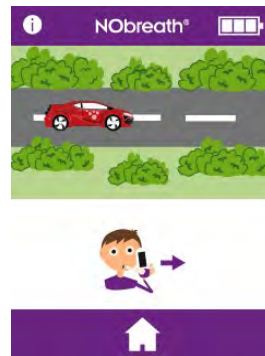
The onscreen flow meter will guide the patient on the exhalation rate:



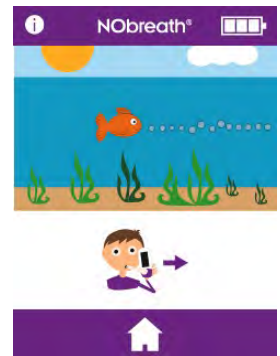
Keep the car in the middle of the road.



Keep the dial in the green area.



Keep the car in the middle of the road.



Follow the bubbles.

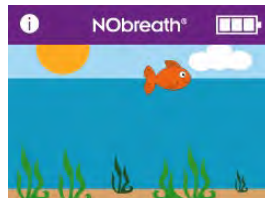


A green tick onscreen indicates a successful test.



The results will then be shown onscreen in ppb.

Return to the home screen by pressing the home button or save the result to a patient profile.



If the patient exhales outside of the exhalation guidelines, the test will beep before indicating a fail and a red cross will appear.

Press the retry icon to retake the test or the next arrow to view the result.

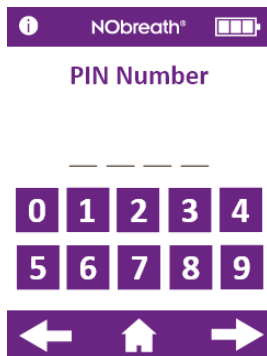


Patient Profiles



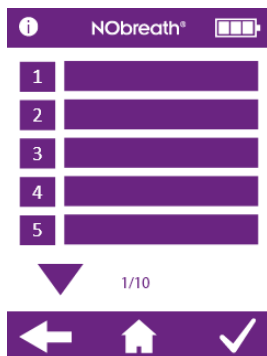
The NObreath® is designed to be capable of storing up to 25 results in up to 50 patient profiles.

Press the profiles icon to access patient profiles.

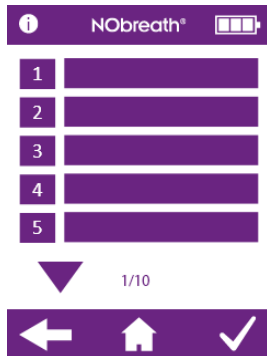


If the PIN has not been entered in the last 30 minutes, the 4-digit code will be required before the patient profiles can be accessed.

NOTE: If the PIN has been forgotten, please contact Bedfont® or its local distributor to reset it.

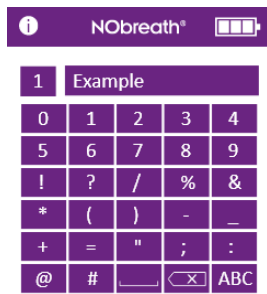


A list of patient profiles will show onscreen.



Create a new patient profile

To create a new profile, choose an empty name slot.

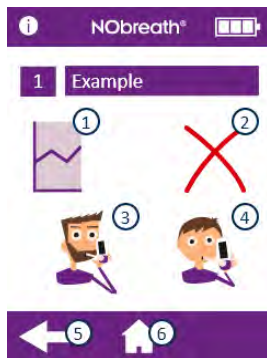


Use the keypad to enter a name or reference.

Click the save icon to create the profile.

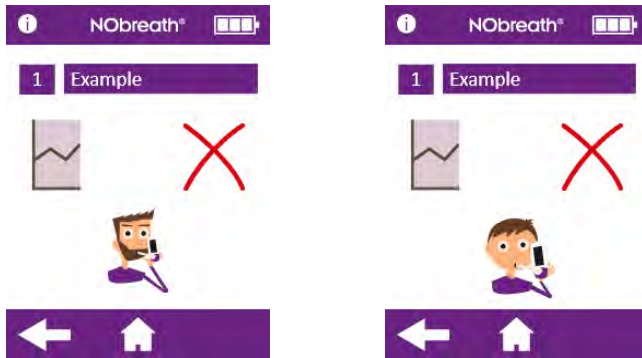


To cancel, press the back arrow to return to the list of profiles or the home icon to return to the main screen.

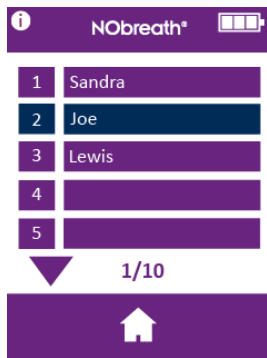


Once the profile has been created the following options will become available:

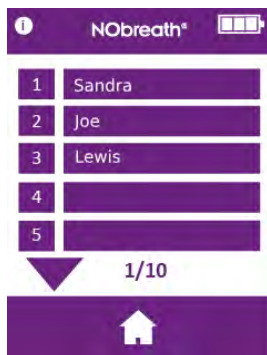
1. See a graph of results
2. Delete the patient profile
3. Take an adult breath test
4. Take a child breath test
5. Return to the profile list
6. Return to the main screen



Once an adult or child breath test has been selected, the profile will only offer that breath test mode in future.

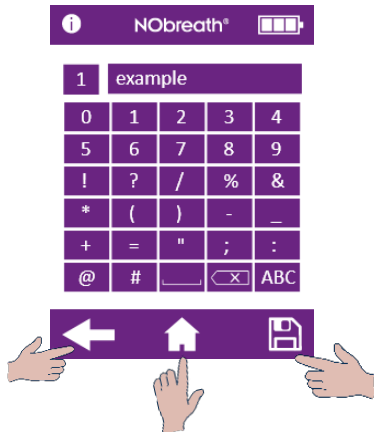


It is not possible for the user to save an adult breath test to a child's profile, or a child's breath test to an adult's profile. Profiles not compatible with the breath test will be shown in blue.



Edit a patient profile

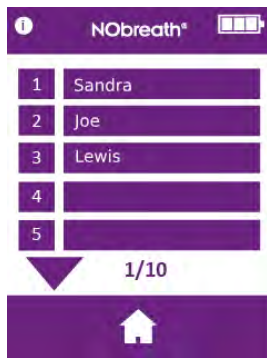
To edit a patient's profile, select their name/ID from the list.



Use the keypad to edit the profile.

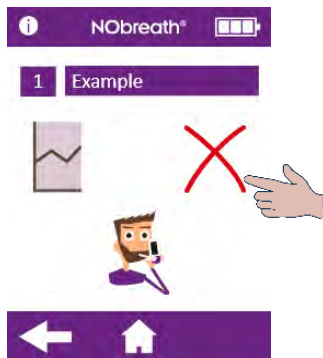
Click the save icon to save the changes.

To cancel, press the back arrow to return to the list of profiles or the home icon to return to the main screen.

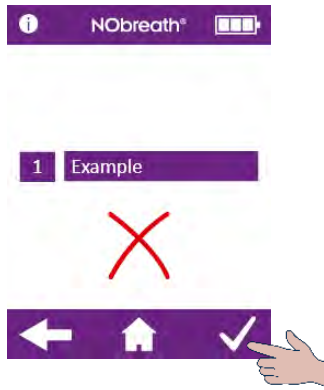


Delete a patient profile

Select the patient that will be deleted to load their profile.



Press the red 'x' to delete the patient profile.



Press the tick to confirm.

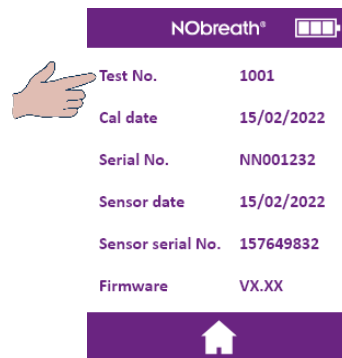
The profile will be deleted the profile screen will be displayed.

Maintenance


NObreath® - FeNO testing without limits

The NObreath® has been validated for up to 29,000 tests when used as instructed and properly maintained and serviced. The number of tests can be periodically checked within the settings of the device; when 29,000 tests are reached a service is recommended. Contact Bedfont® or the local service centre.

The Health Care Professional can check how many breath tests have been performed on the device using the Information Screen, Test No as seen below.



Routine maintenance

1. Mouthpieces are to be replaced after every patient.
WARNING: The mouthpieces are single patient use only and can be used for a maximum of 10 tests per breath testing session. Further re-use could cause incorrect readings and could increase the risk of cross infection. The mouthpiece should be disposed of after use, in accordance with local waste disposal guidance.
2. Hands should be washed regularly in accordance with infection control practice.
CAUTION: Do not use sanitising products containing alcohol as this may damage the sensors.
3. Only use accessories approved by Bedfont®.
CAUTION: Use of accessories not approved by the manufacturer will invalidate the warranty and may compromise the safety of the device.
4. It is best practice to not let the battery run flat. If the NObreath® indicates the battery level is on the last bar on the display , we recommend charging the device. If the NObreath® battery symbol is flashing on the display, the device would require charging immediately.
5. If the NObreath® battery becomes fully discharged, the device may need calibration. Please contact Bedfont® or its local distributor for advice.

Servicing

1. The NObreath® should be calibrated annually or the NO sensor should be replaced.
2. The NO scrubber should be replaced annually.
3. The NO sensor, breath drying cartridge and the pump should be replaced every 5 years.



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|---|--|
| The sensor requires calibrating or changing and the NO scrubber requires replacing within ≤ 30 days. | The calibration or change of the sensor and the replacement of the NO scrubber is due by the date displayed onscreen. This reminder will be displayed every day until it has been reset by performing a sensor calibration or sensor change, and the NO scrubber has been replaced. |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|--|--|
| The calibration or changing of the sensor and replacement of the NO scrubber is now due. | The calibration or changing of the sensor and replacement of the NO scrubber was due on the date displayed. This reminder will be displayed every day until it has been reset by performing a sensor calibration or sensor change, and the NO scrubber has been replaced. |



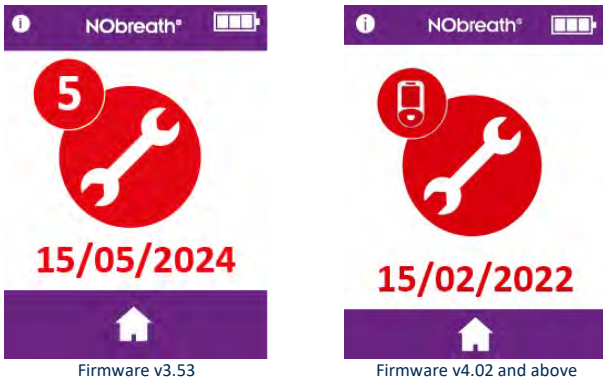
| <i>Possible Cause</i> | <i>Recommended Action</i> |
|---|---|
| <p>The calibration or changing of the sensor and replacement of the NO scrubber is now overdue by ≥ 30 days.</p> <p>The date displayed is 365 days after the last sensor calibration or exchange.</p> | <p>The calibration or changing of the sensor and replacement of the NO scrubber was due on the date displayed.</p> <p>This reminder will be displayed every day until it has been reset by performing a sensor calibration or sensor change, and the NO scrubber has been replaced.</p> |



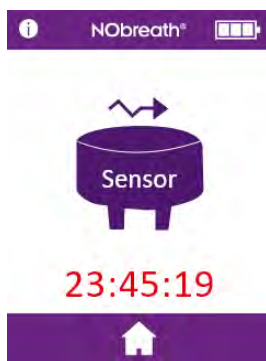
| <i>Possible Cause</i> | <i>Recommended Action</i> |
|--|--|
| <p>The NObreath® is due its full service in ≤ 30 days.</p> | <p>The NObreath® is due its full service by the date displayed.</p> <p>A service reminder will be displayed every day until a full service has been carried out by a trained engineer.</p> |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|---|---|
| <p>The NObreath® is now due its full service.</p> <p>5 years has elapsed since last full service.</p> | <p>The NObreath® was due its full service on the date displayed.</p> <p>A service reminder will be displayed every day until a full service has been carried out by a trained engineer.</p> |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|--|--|
| The full service for the NObreath® is now overdue by ≥ 30 days. | The full service for the NObreath® was due on the date displayed. A service reminder will be displayed every day until a full service has been carried out by a trained engineer. |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|---|--|
| The sensor is stabilising after installation. The time displayed shows the time remaining until sensor is stabilised. | The sensor requires 24 hours to stabilise; during this period, the NObreath® should be placed on charge. During this period, testing will not be possible. This screen will clear automatically after 24 hours. |

Cleaning

Bedfont® recommends wiping the instrument external surfaces between each patient with an alcohol-free wipe specifically designed for this purpose. A list of approved wipes can be found here: <https://www.bedfont.com/cleaning-bedfont-devices>

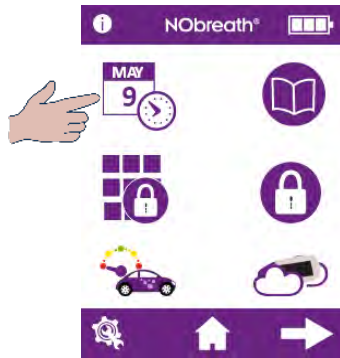
The device or consumables cannot be sterilised. It is recommended that wipes are used once and for one surface only. The NObreath® device should be cleaned for initial use and after each patient use.

CAUTION: Do not use any substances containing alcohol on or near the NObreath®.

WARNING: Under no circumstances should the instrument be immersed or splashed with liquid.

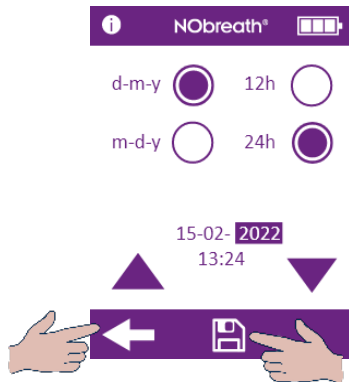
NOTE: *Circuit diagrams, component part lists, descriptions, and calibration instructions can be found in the NObreath® Service Manual. Please contact the local distributor to obtain a copy.*


Settings



Change the date/time

To change the date or time, press the edit date/time icon on the 1st page of the settings menu.



Select either **d-m-y** or **m-d-y** for the date format and **12h** or **24h** for the time format. The purple circle, , indicates the selected option.

To adjust the date/time, select the number and it will become highlighted. Use the arrows to change as desired.

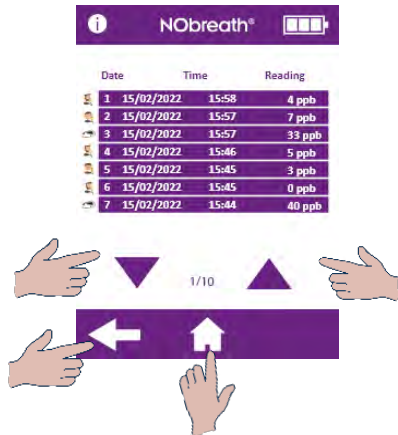
Press the save button to keep the changes.

To cancel, press the back arrow to return to the settings menu.



Test log

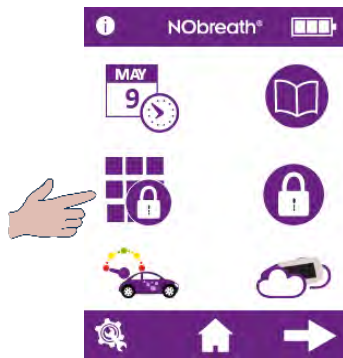
To access the test log, press the log icon on the 1st page of the settings menu.



The most recent test results are automatically saved in the log and the NObreath® can store 250 at a time.

Use the arrows to scroll through the log.

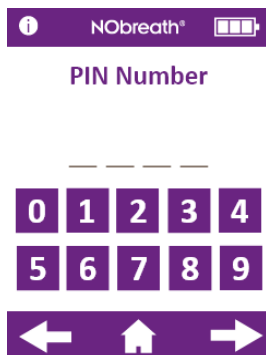
Press the back arrow to return to the settings menu or the home icon to return to the main screen.



Change PIN

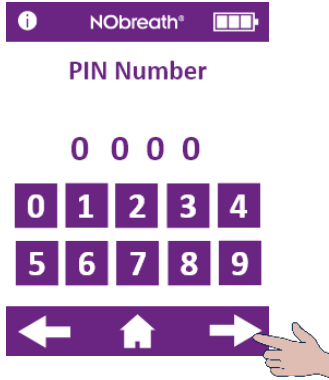
Each device is pre-set to the PIN code 0000. It is highly recommended that the PIN is changed to a memorable 4-digit number.

To change the PIN number, press the change PIN icon from the 1st page of the settings menu.



A prompt will ask for the current PIN to be entered.

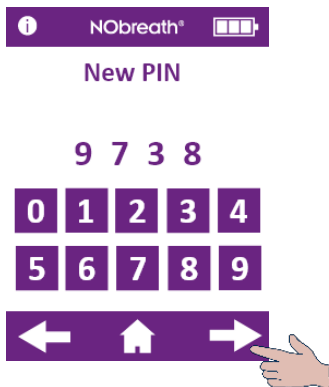
If the PIN has been forgotten, please contact Bedfont® or its local distributor to reset it.



Enter the current PIN and press the next arrow to proceed.



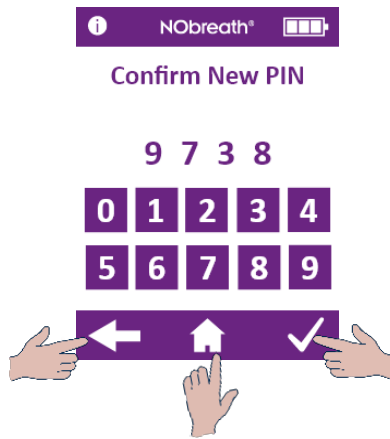
A prompt will then ask for a new PIN number to be entered.



Enter a new memorable 4-digit code and press the next arrow to continue.



A prompt will ask for the new PIN number to be re-entered for confirmation.



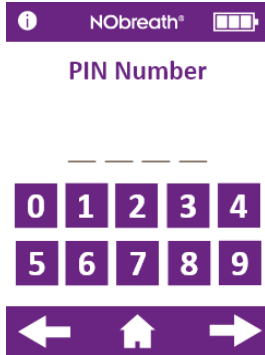
Re-enter the PIN to confirm the new 4-digit code and press the tick to register the change.

To cancel, press the back arrow to return to the settings menu or the home icon to return to the main screen.



Enable/disable PIN

To disable the PIN, press the enable/disable PIN icon on the 1st page of the settings menu.

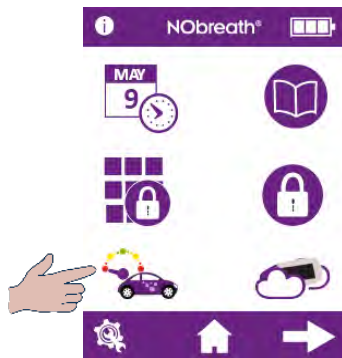


A prompt will ask for the PIN number to be entered in order to disable the PIN function.



Once the PIN function is disabled, it will be crossed out in the settings menu.

To re-enable the PIN function, simply press the enable/disable button again and re-enter the PIN to confirm.



Change flow-meter style

To change the flow-meter style, press the flow-meter button on the 1st page of the settings menu.



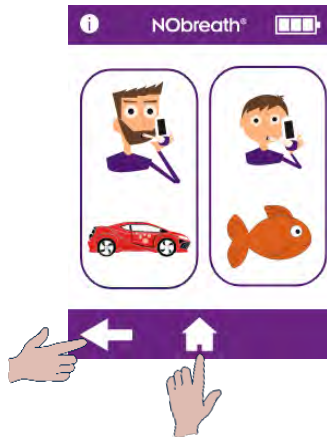
Select either the adult or child test mode to change the flow-meter style.



The current flow-meter style will be highlighted.



Select the new style and press the save icon to register.



The new flow-meter style will now be used for that breath test mode and the relevant demo mode.

Press the back arrow to return to the settings menu or the home icon to return to the main screen.



Ambient air test

To perform an ambient air test, press the ambient test icon on the 1st page of the settings menu.

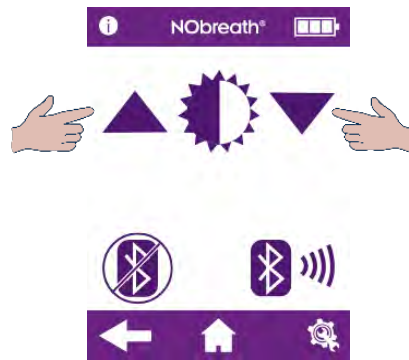


The NObreath® will begin sampling the atmosphere and an hourglass be shown onscreen.

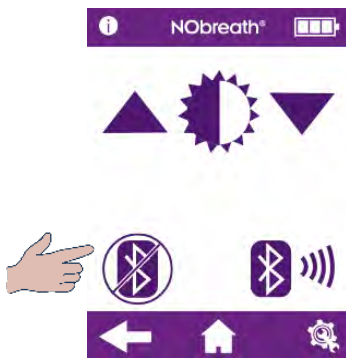


The result will be shown onscreen.

Press the back arrow to return to the settings menu or the home icon to return to the main screen.

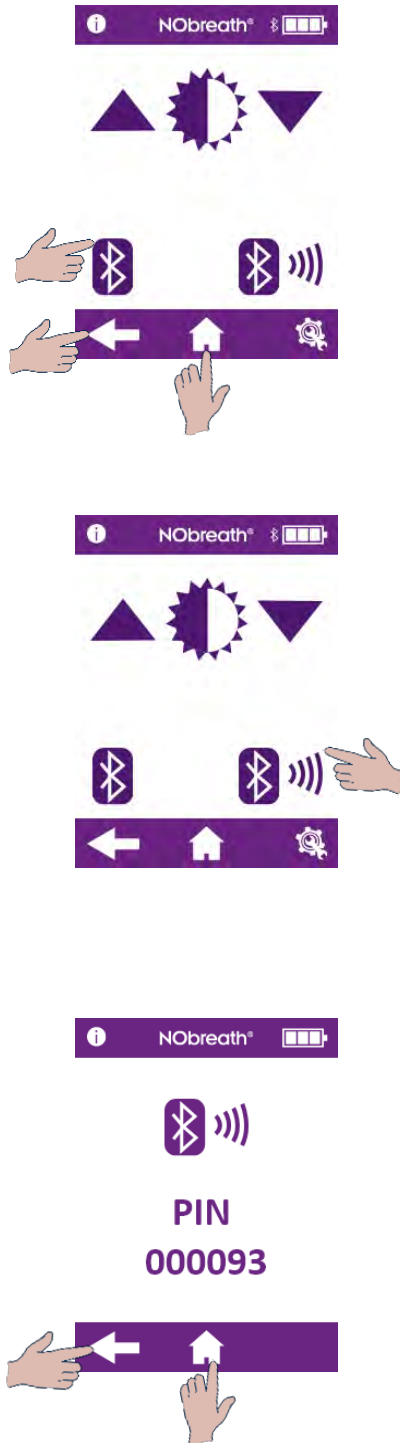


To adjust the brightness of the display, go to the 2nd page of the settings menu and use the arrows to increase/decrease the brightness of the screen.



Enable/disable Bluetooth®

To enable Bluetooth®, go to the 2nd page of the settings menu and press the enable/disable Bluetooth® button.



Once Bluetooth® is enabled, the Bluetooth® symbol will no longer be crossed out on the 2nd page of the settings menu and a Bluetooth® symbol will appear next to the battery status icon.

Press the icon again to switch Bluetooth® off.

Press the back arrow to return to the settings menu or the home icon to return to the main screen.

Bluetooth® pairing

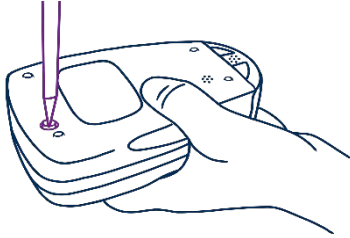
To pair a device with the NObreath®, go to the 2nd page of the settings menu and press the Bluetooth® pairing icon.

The screen will display the Bluetooth® pairing PIN.

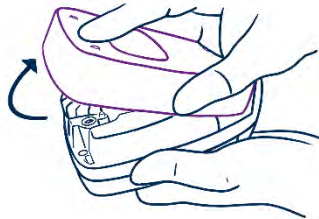
Please make sure the Bluetooth® on the NObreath® and the other device is switched on in order to pair with the NObreath®.

Press the back arrow to return to the settings menu or the home icon to return to the main screen.

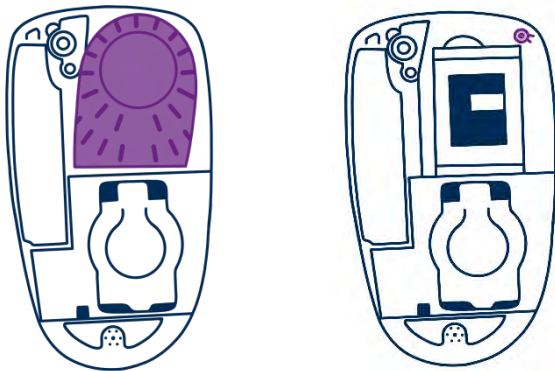
Data Reset



Using the screwdriver provided with the NObreath®, unscrew the screw on the back of the device.

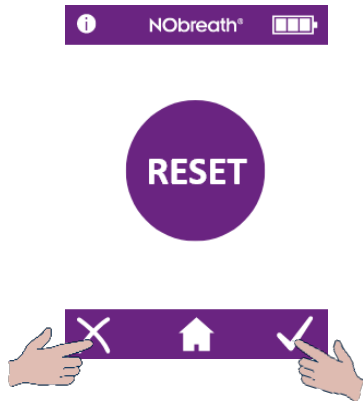


Remove the back cover by sliding and lifting it off.



To access the Data Reset button, first remove the back cover and the breath drying cartridge.

This will reveal the Data Reset button at the top right of the NObreath®.



Press and hold the Data Reset button for 5 seconds and the screen will reveal the reset icon.

NOTE: A data reset will erase all patient data from the device the PIN will be reset to the default, 0000.

Press the tick to confirm the data reset or cross to cancel.



An hourglass will display onscreen as the NObreath® begins erasing all data.

NOTE: This can take up to 5 minutes to complete.



Once complete, the screen will prompt for the back cover to be replaced.

Ensure that the breath drying cartridge has been re-inserted and then reattach the back cover.



All data will be erased and the home screen will display once more.

Cybersecurity

WARNING: Precautions need to be taken when handling patient data, this should be completed by trained healthcare professionals only.

CAUTION: Security precautions need to be taken when connecting a NObreath® unit to a PC/laptop via USB or Wireless. Ensure the PC/laptop is in a secured environment (e.g. has a firewall and anti-virus software) in order to not expose the NObreath® to malwares.

CAUTION: The operating system of the PC/laptop should be kept up to date.

WARNING: Any data on the NObreath® device needs to be cleared (via a reset) before returning to Bedfont® or one of its distributors for service or repair and before the unit is disposed at end-of-life.

WARNING: The NObreath® needs to be stored in a secure place, e.g. a locked room or desk drawer/cupboard.

Technical Specification

NObreath® device and dock

| | | |
|---|--------------------------|--|
| Concentration range | | 5 – 500 ppb |
| Display | | Full colour touchscreen |
| Detection principle | | Electrochemical sensor |
| Repeatability | | ± 5ppb of measured value ≤ 50 ppb ± 10% of measured value > 50 ppb |
| Accuracy | | ± 5ppb 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 |
| | NObreath® Dock | Mains powered Input: 5 V, 0.5 A Output: 5 V, 0.5 A |
| | Plug | Input: 100 – 240 V ~ 50 / 60 Hz., 0.2 A Output: 5.0 V, 1.0 A |
| T₉₀ 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 |
| Materials | NObreath® device | Case: polycarbonate/ABS blend |
| | NObreath® Dock | Anti-microbial additive |
| 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 10cm H₂O

NObreath® mouthpiece

| | |
|--------------------------|---|
| Infection control | An integrated infection control filter removes and traps > 99% of airborne bacteria and > 98% of viruses. |
| Dimensions | Approx. 180 mm X 25 mm X 15 mm |
| Weight | Approx. 11 g |
| Materials | Polypropylene |



































Using the NObreath® with FeNOchart™

The NObreath® device is supplied with FeNOchart™ software, which allows patient data to be synchronised from the device to a computer, where results can be safely stored and analysed. FeNOchart™ can be downloaded directly from <https://www.nobreathfeno.com/fenochart/>

Insert the USB lead into the PC, and connect the other end to the rear of the docking station. Place the NObreath® into the docking station, connecting it to the micro USB in the base. Alternatively, the micro USB lead can be directly connected to the base of the NObreath® unit itself.

Before starting the software, ensure that the NObreath® is connected to the PC and switched on. Double click the FeNOchart™ icon on the PC to start the programme. Refer to the FeNOchart™ manual for how to operate the FeNOchart™ software.

Buttons Explained

| | | | | | |
|--|---|-----------------|---|--|---|
| Information |  | Retry |  | Change PIN |  |
| Adult test |  | Save |  | Disable PIN |  |
| Child test |  | Next screen |  | Enable PIN |  |
| Demo mode |  | Previous screen |  | Change flow meter style |  |
| Patient profiles |  | Settings |  | Ambient test |  |
| Home button |  | Date & time |  | Disable Bluetooth® |  |
| Graph of results |  | Selected |  | Enable Bluetooth® |  |
| Delete patient |  | Increase |  | Service Area (See service manual) |  |
| Confirm |  | Decrease |  | Sensor calibration and NO scrubber reminder |   |
| Cancel |  | Test log |  | Device full service reminder |    |
| Sensor stabilising (device should be placed on charge) |  | | | | |

Troubleshooting



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|---|---|
| The sensor requires calibrating or changing and the NO scrubber requires replacing within ≤ 30 days. | <p>The calibration or change of the sensor and the replacement of the NO scrubber is due by the date displayed onscreen.</p> <p>This reminder will be displayed every day until it has been reset by performing a sensor calibration or sensor change, and the NO scrubber has been replaced.</p> |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|--|---|
| The calibration or changing of the sensor and replacement of the NO scrubber is now due. | <p>The calibration or changing of the sensor and replacement of the NO scrubber was due on the date displayed.</p> <p>This reminder will be displayed every day until it has been reset by performing a sensor calibration or sensor change, and the NO scrubber has been replaced.</p> |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|---|---|
| <p>The calibration or changing of the sensor and replacement of the NO scrubber is now overdue by ≥ 30 days.</p> <p>The date displayed is 365 days after the last sensor calibration or exchange.</p> | <p>The calibration or changing of the sensor and replacement of the NO scrubber was due on the date displayed.</p> <p>This reminder will be displayed every day until it has been reset by performing a sensor calibration or sensor change, and the NO scrubber has been replaced.</p> |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|--|--|
| <p>The NObreath® is due its full service in ≤ 30 days.</p> | <p>The NObreath® is due its full service by the date displayed.</p> <p>A service reminder will be displayed every day until a full service has been carried out by a trained engineer.</p> |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|---|---|
| <p>The NObreath® is now due its full service.</p> <p>5 years has elapsed since last full service.</p> | <p>The NObreath® was due its full service on the date displayed.</p> <p>A service reminder will be displayed every day until a full service has been carried out by a trained engineer.</p> |



Firmware v3.53



Firmware v4.02 and above

| <i>Possible Cause</i> | <i>Recommended Action</i> |
|--|--|
| The full service for the NObreath® is now overdue by ≥ 30 days. | The full service for the NObreath® was due on the date displayed. A service reminder will be displayed every day until a full service has been carried out by a trained engineer. |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|--|--|
| The sensor is stabilising after installation. The time displayed shows the time remaining until sensor has stabilised. | The sensor requires 24 hours to stabilise; during this period, the NObreath® should be placed on charge. During this period, testing will not be possible. This screen will clear automatically after 24 hours. |



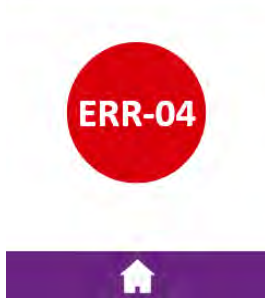
| <i>Possible Cause</i> | <i>Recommended Action</i> |
|--|--|
| There has been a sensor calibration error. | Contact Bedfont® or their local distributor. |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|--|--|
| There has been a verification error in the flash memory of the device. | Contact Bedfont® or their local distributor. |



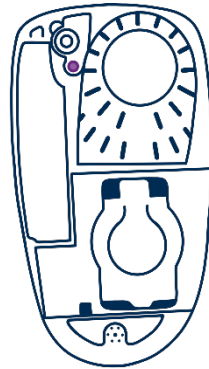
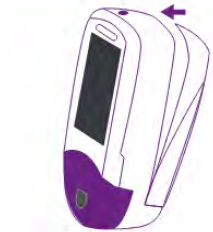
| <i>Possible Cause</i> | <i>Recommended Action</i> |
|--|--|
| There has been an error in the NObreath® settings. | Contact Bedfont® or their local distributor. |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|---|--|
| There has been a failure in the flash memory of the device. | Contact Bedfont® or their local distributor. |



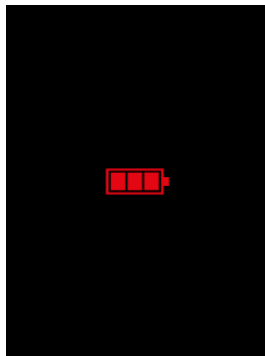
| <i>Possible Cause</i> | <i>Recommended Action</i> |
|------------------------------------|--|
| There has been a database failure. | Contact Bedfont® or their local distributor. |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|--|--|
| The back cover of the device is open. | Make sure the back of the device is secure and the turn lock is closed. |
| The back cover button is damaged, lost or stuck. | Take the back cover off, check the back cover button is present. Replace back cover. |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|---|--|
| No sensor detected. | Ensure a sensor is inserted into the device. |
| The sensor is not correctly inserted. | Ensure the sensor is correctly inserted by pushing firmly in the top connector. |
| Check the date & time. If this does not show the current date & time the real time clock battery may be flat/empty. | Change the date/time to the current date/time and charge the device battery fully. |
| Sensor bias battery flat/empty. | Charge the device battery fully. This will allow the sensor bias battery to also charge and re-bias the sensor. Instructions from the previous step may also have to be carried out. |
| Sensor connector pins blocked. | Remove the sensor and re-insert to clear any possible blockages. |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|-----------------------------------|---|
| The device battery is flat/empty. | Place the device in the charging dock and plug into a power source. Alternatively, plug the device directly into a power source. See 'Installation and Setup' section of this manual. |



The device does not switch on after being put on charge.

| <i>Possible Cause</i> | <i>Recommended Action</i> |
|-----------------------------------|---|
| The device battery is flat/empty. | <p>This is the muted charge mode. This screen will appear when the device has a depleted battery and is on charge.</p> <p>The device can charge for up to 90 minutes with a blank screen, and will not emit any sound during this time.</p> <p>If the device does not show any activity after 90 minutes, contact Bedfont® or the local distributor for assistance.</p> |

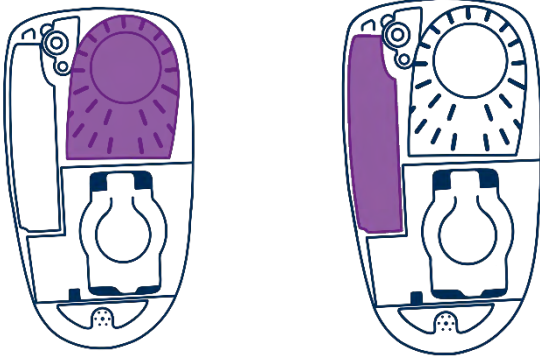


Suspicion that the device is giving erroneous/incorrect readings.

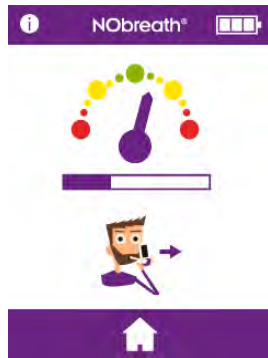
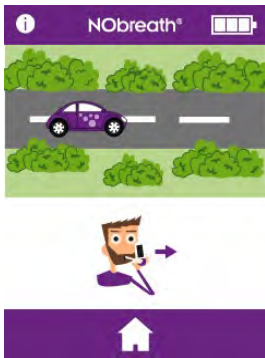
This image is an example only, and is not necessarily an example of an erroneous reading.

| <i>Possible Cause</i> | <i>Recommended Action</i> |
|---|--|
| The device may be out of specification. | If the user suspects the device is giving erroneous readings, stop using it and check the accuracy by purchasing a CaliBag® from Bedfont® or the local distributor, or send to the local service centre. |
| The device may have been exposed to high levels of volatile organic compounds (VOC's) for example from cleaning agents. | Allow the device to rest for up to 24 hours in a VOC free environment. |
| The device may be showing testing in demo mode. | Ensure the breath test mode is being selected from the home screen. |

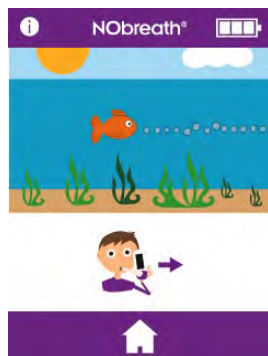
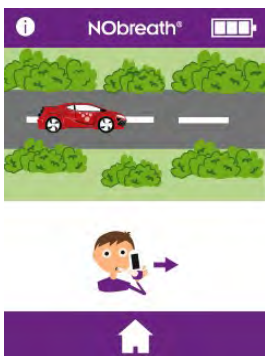
The device consistently reads 0 ppb



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|--|---|
| The drying cartridge is missing or disconnected. | Take the back cover off and check breath drying cartridge is present and fully located into the device. Replace the back cover. |
| The NO scrubber is missing or disconnected. | Take the back cover off and check NO scrubber is present and fully located into the device. Replace the back cover. |



| <i>Possible Cause</i> | <i>Recommended Action</i> |
|---|--|
| If the patient exhales outside of the exhalation guidelines, the test will beep before indicating a fail and a red cross will appear. | Press the retry icon to retake the test or if after multiple attempts the patient is unable to comply, the reading can be viewed by pressing the next arrow. |













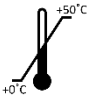
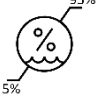
WARNING: Patients should exhale for the duration of time indicated by the device during a breath test. Failure to do so could impact the reading.

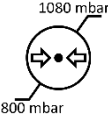

| Notification Issue | Possible Cause | Recommended Action |
|--|--|--|
| The device will not switch on | The battery is missing | Take the back cover off, check battery is present and fully located into the device. Replace back cover |
| | The battery is flat | Place the device in the charging dock and plug into a power source. Alternatively, plug the device directly into a power source. See 'Installation and Setup' section of this manual |
| | The battery has been inserted incorrectly | Contact Bedfont® or the local distributor for assistance |
| | The device is not charging | |
| | The battery contacts are blocked | |
| | The power button is damaged | |
| | There is a screen issue | |
| The unit is reading incorrectly or showing 0 ppb | The pump is not running | The battery is low. Charge the device battery |
| | The mouthpiece connection was loose during the test | Ensure the mouthpiece is connected tightly |
| | Check if any VOC's or alcohol based products have been used to wipe the device or mouthpiece | Alcohol contaminations will affect the NO electro chemical sensor inside the device. Ensure no VOC's are used on the device and accessories related to the device |
| | Check if any aerosols or room spray have been used where the device is used | |
| | The vent holes are blocked | Ensure vent holes are not blocked or covered by hands or something else during the test. |
| | There are high levels of ambient NO | Perform an ambient test as per the instructions. Levels should be ≤ 350 ppb, if levels are > 350 ppb, move to a different location and take a new measurement. |



| | | |
|--|--|---|
| Rattling sound inside the unit | This is from the scrubber material | This is not an issue. Scrubber has potassium permanganate and charcoal buds inside the device to scrub ambient NO |
| NObreath® Dock is showing a red light | Indicates a fault, overcurrent, undervoltage or overvoltage protection circuit has triggered | Contact Bedfont® or the local distributor for assistance. |

Glossary of Symbols and Safety Information

| Glossary of Symbols | | | |
|---|---|--|---|
| Title of Symbol | Symbol | Explanatory Test | Symbol and Standard References |
| Type BF Applied Part (Whole Device) |  | To identify a type BF applied part complying with IEC 60601-1 | IEC 60417 – 5333 IEC 60601-1, Table D.1, Symbol 20 |
| Degree of protection against ingress of liquid | IPX0 – not protected against water ingress | Degree of Ingress Protection Provided by Enclosure | IEC 60601-1, Table D.3, Symbol 2. IEC 60529 |
| Consult instructions for use |  | Indicates the need for the user to consult the instructions for use | ISO 15223 – 1. Clause 5.4.3 ISO 7000 – 1641 IEC 60601-1, Table D.1, Symbol 11 |
| Non-ionizing electromagnetic radiation The device includes a Radio Frequency (RF) transmitter: Make: The device contains a Microchip Technology Inc. transmitter module. Module: Contains Transmitter Module FCC ID: T9J-RN42 / FCC ID: A8TBM78ABCDEFGH (Bluetooth®) |  | To indicate generally elevated, potentially hazardous, levels of non-ionizing radiation, or to indicate equipment or systems e.g. in the medical electrical area that include RF transmitters or that intentionally apply RF electromagnetic energy for diagnosis or treatment | IEC 60601-1-2 Clause 5.1.1 IEC 60417 - 5140 |
| Direct current |  | To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals | IEC 60601-1. Table D.1, Symbol 4 |

| | | | |
|---------------------------------------|---|--|--|
| Dispose of according to WEEE |  | DO NOT THROW IN GENERAL RUBBISH DISPOSAL/TRASH! – Waste Electronic Equipment | EN 50419 Directive 2012/19/EU, Annex IX |
| Serial number |  | Indicates the manufacturers serial number so that a specific medical device can be identified | ISO 15223 – 1. Clause 5.1.7 ISO 7000 – 2498 |
| Manufactured by |  | Indicates the device manufacturer (*Note – Date of manufacture, name and address of manufacturer can be combined in one symbol) | ISO 15223 – 1. Clause 5.1.1 ISO 7000 – 3082 |
| Manufacture date |  | Indicates the date when the medical device was manufactured | ISO 15223-1. Clause 5.1.3 ISO 7000 – 2497 FDA 21 CFR 801 |
| Magnetic Resonance (MR) unsafe |  | 3.1.14: An item which poses unacceptable risks to the patient, medical staff or other persons within the MR environment | ASTM F2503-20. Table 2, Symbol 7.3.3; 7.4.9.1; Fig.9 |
| Caution |  | Indicates that caution is necessary when operating the device or control close to where the symbol is placed, or that the current situation needs operator awareness or operator action in order to avoid undesirable consequences | ISO 15223-1 Clause 5.4.4 ISO 7000 – 0434A FDA 21 CFR 801 |
| Temperature limit |  | Indicates the temperature limits to which the medical device can be safely exposed | ISO 15223 – 1. Clause 5.3.7 ISO 7000 – 0632 |
| Humidity limitation |  | Indicates the range of humidity to which the medical device can be safely exposed | ISO 15223 – 1. Clause 5.3.8 ISO 7000 – 2620 |

| | | | |
|---|---|---|--|
| Atmospheric pressure limitation |  | Indicates the range of atmospheric pressure to which the medical device can be safely exposed | ISO 15223 – 1. Clause 5.3.9 ISO 7000 – 2621 |
| General symbol for recovery/recyclable |  | To indicate that the marked item or its material is part of a recovery or recycling process | ISO 7000 – 1135 |

| Non-standard symbols | | | |
|--|---|--|---------------------------------------|
| Title of Symbol | Symbol | Explanatory Text | Symbol and Standard References |
| CE mark |  | Manufacturer's declaration of compliance to all relevant European Medical Device Regulations | European Directive 93/42/EEC |
| Bedfont® logo |  | Manufacturer's logo | N/A |
| Type of protection against electric shock | Internally powered equipment | N/A | N/A |
| Degree of safety application in the presence of a flammable anaesthetic mixture with air, oxygen or nitrous oxide | Equipment not suitable for use in the presence of flammable mixtures. | N/A | N/A |

Wireless

This device contains a Microchip Technology Inc. transmitter module: Contains Transmitter Module FCC ID: T9J-RN42 / FCC ID: A8TBM78ABCDEFGH. This is in compliance with Part 15 of the FCC Rules, Spread Spectrum Transmitter.

Wireless Bluetooth® Low Energy (BLE) is used as a means of communication between the device and FeNOchart™ software running on a PC. The FeNOchart™ software is a charting program that retrospectively collects data from the NObreath® device when it is not monitoring. It is not time critical, there are no alarms.

Radio Technology: Bluetooth®: IEEE 802.15 Frequency-hopping spread spectrum

Bluetooth® specification: v2.1 + EDR (Enhanced Data Rate) / V5.0.

Bluetooth® Class / Power: Class 2 Bluetooth® module. Software controllable power. Max power 4 dBm.

RF frequencies: 79 bands (1 MHz each; centered from 2.402 to 2.480 GHz) in the range 2,400-2,483.5 GHz.

The Bluetooth® device is preconfigured with 128bit encryption and a CCITT CRC Checksum. There is no need or provision to change this setting

The USB port is to be used for charging the NObreath® device, this should be carried out via the supplied USB lead and also can be used for transferring encrypted patient data to and from FeNOchart™ PC Software. The NObreath® is not intended to be connected to any wireless adaptors or any other USB Host.


Electromagnetic Immunity

The NObreath® and NObreath® Dock comply with the IEC60601-1-2:2014 4th edition electromagnetic compatibility.

The NObreath® device is suitable for the electromagnetic environment of typical commercial or hospital settings.

During the immunity testing described below the NObreath® device continued to provide essential performance. We considered essential performance to be an NO reading within ± 5 ppb of inputted level. A deviation of ± 5 ppb has no physiological significance.

WARNINGS:

- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the NObreath® device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
- The NObreath® device should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the NObreath® device should be observed to verify normal operation. If operation is not normal, the NObreath® or the other equipment should be moved.
- Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
- Avoid exposure to known sources of EMI (electromagnetic interference) such as Magnetic Resonance Imaging (MRI) systems, diathermy, lithotripsy, electrocautery, RFID (Radio Frequency Identification), and electromagnetic security systems such as metal detectors.
-  Keep the NObreath® outside the MRI scanner room.

Note that the presence of RFID devices may not be obvious. If such interference is suspected reorient equipment if possible, to maximize distances.

Emissions

| <p>The NObreath® device is intended for use in the electromagnetic environment specified below. The user should assure that it is used in such an environment.</p> | | |
|--|-----------------|---|
| Emission Tests | Compliance | Electromagnetic Environment – Guidance |
| Conducted and Radiated RF Emissions CISPR 11 | Group 1 Class A | The NObreath® device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. |
| Conducted and Radiated RF Emissions CISPR 11 | Group 1 Class A | <p>The NObreath® device is suitable for use in all establishments other than domestic, and may be used in domestic establishments and those directly connected to the public low- voltage power supply network that supplies buildings used for domestic purposes, provided the following warning is heeded:</p> <p>WARNING: This equipment/system is intended for use by healthcare professionals only. This equipment/ system may cause radio interference or may disrupt the operation of nearby equipment. It may be necessary to take mitigation measures, such as re-orienting or relocating the NObreath® device or shielding the location.</p> |

NOTE: *The EMISSIONS characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.*

Immunity

| Guidance and manufacturer's declaration: Electromagnetic immunity | | | |
|---|---|---|---|
| The NObreath® is intended for use in the electromagnetic environment specified below. The customer or the user of the NObreath® should ensure that it is used in such an environment. | | | |
| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment guidance |
| Electrostatic Discharge (ESD) IEC 61000-4-2 | ± 8 kV contact ± 2, 4, 8 and 15 kV air | ± 8 kV contact ± 2, 4, 8 and 15 kV air | Floor should be wood, concrete or ceramic floor tile. If floors are covered with synthetic material the relative humidity should be at least 30%. |
| Electrical fast transient/bursts (immunity) IEC 61000-4-4 | ± 2 kV | ± 2 kV | Mains power quality should be that of a typical commercial or hospital environment. |
| Surge (immunity) IEC 61000-4-5 | ± 0.5, 1.0 kV L-L ± 0.5, 1.0, 2.0 kV L-E | ± 0.5, 1.0 kV L-L ± 0.5, 1.0, 2.0 kV L-E | Mains power quality should be that of a typical commercial or hospital environment. |
| Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11 | 100% 0.01 Seconds 100% 0.02 Seconds 30% 0.5 Seconds 100% 5 Seconds | 100% 0.01 Seconds 100% 0.02 Seconds 30% 0.5 Seconds 100% 5 Seconds | Mains power quality should be that of a typical commercial or hospital environment. If the user of the NObreath® requires continued operation during power mains interruptions beyond that provided by the battery, it is recommended that the NObreath® is powered from an uninterruptible power supply. |
| Power frequency (50/60Hz) Magnetic field IEC 61000-4-8 | 30 A/m | 30 A/m | Power frequency magnetic fields should be at levels characteristic of a typical commercial or hospital environment. |

| Electromagnetic Immunity | | |
|---|---|---|
| The NObreath® is intended for use in the electromagnetic environment specified below. The customer or the user of the NObreath® should assure that it is used in such an environment. | | |
| Immunity Test | Compliance Level | Electromagnetic Environment – Guidance |
| Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3 | 3 Vrms (1 kHz 80%) 150 kHz – 80 MHz 3 V/m (1 kHz 80%) 80 MHz – 2.7 GHz | The NObreath® is suitable for the electromagnetic environment of typical commercial or hospital settings. |

NObreath® has also been tested for immunity to RF wireless communications equipment as below.

| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment guidance |
|---------------------------|---|---|--|
| Radiated RF IEC 61000-4-3 | 385 MHz 27 V/m 450 MHz 28 V/m 710 MHz 9 V/m 745 MHz 9 V/m 780 MHz 9 V/m 810 MHz 28 V/m 870 MHz 28 V/m 930 MHz 28 V/m 1720 MHz 28 V/m 1845 MHz 28 V/m 1970 MHz 28 V/m 2450 MHz 28 V/m 5240 MHz 9 V/m 5500 MHz 9 V/m 5785 MHz 9 V/m | 385 MHz 27 V/m 450 MHz 28 V/m 710 MHz 9 V/m 745 MHz 9 V/m 780 MHz 9 V/m 810 MHz 28 V/m 870 MHz 28 V/m 930 MHz 28 V/m 1720 MHz 28 V/m 1845 MHz 28 V/m 1970 MHz 28 V/m 2450 MHz 28 V/m 5240 MHz 9 V/m 5500 MHz 9 V/m 5785 MHz 9 V/m | The NObreath® device is suitable for the electromagnetic environment of typical commercial or hospital settings. |

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warranty

Bedfont® Scientific Limited warrants the NObreath® device and sensors, batteries excepted, to be free of defects in materials and workmanship for a period of 5 years from the date of shipment, subject to service and maintenance requirements.

Bedfont's sole obligation under this warranty is limited to repairing or replacing, at its choice, any item covered under this warranty when such an item is returned intact and prepaid, to Bedfont® or the local representative.



This warranty is automatically invalidated if the products are altered or tampered with by unauthorised personnel, or have been subject to misuse, neglect or accident. At the end of the product's life, contact Bedfont® or its distributor for disposal instructions.

Single-patient use consumables and accessories should be disposed of in line with local clinical waste guidelines.

Never dispose of any electronic instrument or batteries in domestic waste. At the end of the product's life, contact Bedfont® or its distributor for disposal instructions.

Returns

Please contact Bedfont® or its local distributor for instructions on returning goods.

Responsible Manufacturer and Contacts

Bedfont® Scientific Ltd.
Station Yard, Station Road,
Harrietsham,
Maidstone, Kent,
ME17 1JA
United Kingdom

www.bedfont.com
www.nobreathfeno.com
ask@bedfont.com
0044 1622 851122



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Bedfont[®] Scientific Ltd.
Station Road, Harrietsham, Maidstone,
Kent, ME17 1JA England
Tel: +44 (0)1622 851122 Fax: +44 (0)1622 854860
Email: ask@bedfont.com Web: www.bedfont.com



Emergo Europe B.V.
Westervoortsedijk 60
6827 AT Arnhem
The Netherlands.

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Issue 21 - December 2024, Part No: LAB759

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MD 502905