



Micro⁺ Smokerlyzer[®]

Breath Carbon Monoxide (CO) Monitor

The Micro Smokerlyzer[®] has long been regarded as the benchmark for breath CO monitors having been used in clinical trials and research programmes for many years.

Bedfont have now developed the Micro⁺, with the ability to analyse breath samples from adults and adolescents as well as automatic conversion to foetal %COHb, the Micro⁺ is the most comprehensive monitor available.

Operation of the Micro⁺ is straight forward. A D-piece enables end-expired breath to be sampled easily, using single-use disposable cardboard tube mouthpieces. A colour touch-screen ensures ease of operation, as well as allowing the user to view patient results in a table or graph display. A low sensitivity to hydrogen and alcohol ensures accurate results and makes the Micro⁺ perfect for everyday use and research.



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Product Features

- Readings in COppm and %COHb, which can be instantly converted to Foetal %COHb (%FCOHb) for use with pregnant women
- Anti-bacterial filter and one-way valve for increased infection control
- Built-in maintenance reminders to ensure optimum test results
- Colour touch-screen LCD display
- Adult, adolescent and custom profile options
- Adjustable breath-hold countdown timer for patients who are unable to hold their breath
- Store up to 10 patients' details on the instrument for quick reference
- Low hydrogen cross-sensitivity
- Can be used with COdata+ software

Benefits

- Low-cost, quick and reliable testing
- Instant results
- Auto-zero and calibration
- Easy to use and calibrate by non-technical staff
- Maximum reading held on display
- Quick warm up time

Technical Specification

Gas Detected:	Carbon monoxide (CO)
Concentration Range:	0 - 250ppm
Detection Principle:	Electrochemical sensor
Sensor Sensitivity:	1 ppm
Accuracy (repeatability of readings):	± 2%
Operating Temperature Range:	0 - 40°C (Storage 0 - 50°C)
Operating Pressure:	Atmospheric ± 10%
Operating Humidity:	10–90% (Storage 0 – 95%) non-condensing
Hydrogen cross-sensitivity:	<±5%
Sensor Operating Life:	2-5 years, 6 month warranty
Sensor Drift:	<2% per month
Response Time:	Typically <20 seconds to 90% FSD
Display:	Fully integrated colour LCD with touch screen
Batteries:	3 x AA (LR6 or equivalent) alkaline batteries. Internal battery (min 10 year life)
Weight:	Approx. 250g including batteries
Dimensions:	Approx. 138x45x75mm
Construction:	Case – Polycarbonate/ABS blend with elastomeric overmould. D-piece - Polypropylene
Indicator Levels:	Variable profiles
Breath hold:	Adjustable ¹

¹ Determining an individual's expired CO concentration requires the subject to inhale fully and hold his or her breath for a specified period of time to allow the CO levels in the alveolar air and the blood to equilibrate.
(R. J. West. The Effect of Duration of Breath-Holding on Expired Air Carbon Monoxide Concentration in Cigarette Smokers, Addictive Behaviours, Vol. 9, pp. 307-309)

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ISO 9001:2000
 Cert No. FM 31664
 ISO 13485:2003
 Cert No. MD 502905

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