

Specifications

Baby CO specifications

Gas Detected	Carbon Monoxide
Concentration range	0-500ppm
Sensitivity	1ppm
Operating range	0-40 degrees Celsius
Operating pressure	Atmospheric ± 10%
Hydrogen cross-sensitivity	<5%
Sensor life	2-5 years
Sensor drift	<2% per month
Display	3½ digit custom LCD
Power supply	Single 9V PP3
Weight (Nett)	160gm
Weight (Packed)	1kg
Dimensions	170 x 60 x 26mm
Indicator levels	green - 0 - 6ppm; amber - 7-10ppm; red - >11 - 20ppm Flash red and audio alarm 20ppm and over

Bibliography

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- 4 Nicholas J Wald, Marianne Idle, Julian Boreham, Alan Bailey. Carbon monoxide in breath in relation to smoking and carboxyhaemoglobin levels. Thorax, 1981, 36, 366-369.
- 5 Definition of a reliable threshold value for detecting current smokers by CO measurement. Marino Luigi; Latini Roberto; Barbano Gina; Bazzlerla Giorgio; De Luca Anita, Nardini Stefano - Respiratory and TB Unit-General Hospital- Via forlanini, ITALY.
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- 7 Vielwerth Se et al. The impact of maternal smoking on foetal and infant growth. Early Human Development Oct 30th 2006.
- 8 P. Jane Pringle et al. The Influence of Cigarette Smoking on Antenatal Growth, Birth Size, and the Insulin-Like Growth Factor Axis. The Journal of Clinical Endocrinology & Metabolism Vol. 90, No. 5 2005.
- 9 Lannero et al. Maternal smoking during pregnancy increases the risk of recurrent wheezing during the first years of life. Respiratory Journal Jan 2006.
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The Baby CO Carbon Monoxide monitor, and accessories are part of an extensive range of respiratory measurement devices manufactured by Micro Medical Ltd and are offered as the following catalogue numbers:

Product	Catalogue Number	Product	Catalogue Number
Baby CO	BC01	Cardboard mouthpiece dispenser with disposable mouthpieces (50/box)	PSA1300
Baby CO calibration gas	MCG020	COBRA software package including interface cable compatible with Baby CO	CB1000
Calibration valve with flow indicator	MGA222	Replacement sensor for Baby CO	CEL5900
Mouthpiece adaptor with one-way valve.	PSA2000	Internal lithium battery for Baby CO	BAT5900
Disposable cardboard mouthpieces (250/box)	PSA1200		

Micro Medical Ltd pursues a policy of continuing improvement in design, production and performance of its products, the right is therefore reserved to vary details at any time without notice.

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Medical

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Improving the health
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Focus on the Future

Medical

Smoking and Pregnancy . . .
Helping to break the link

It is never too late to stop smoking. Every cigarette you decide not to smoke will help you and your baby's health. A baby in the womb receives everything from its mother. Nutrients and oxygen come via the placenta and umbilical cord. Smoking not only exposes the foetus to toxins in tobacco smoke, but it also damages placental function.

When a person smokes, some of the oxygen in their blood is replaced by carbon monoxide. If a pregnant woman smokes, her blood and therefore her child's blood will contain less oxygen than normal. This can cause the foetal heart rate to rise as the baby struggles to get enough oxygen.

As well as displaying the mother's CO levels in parts per million (PPM) the Baby CO will immediately display the carbon monoxide levels (%FCOHB) of the unborn foetus.

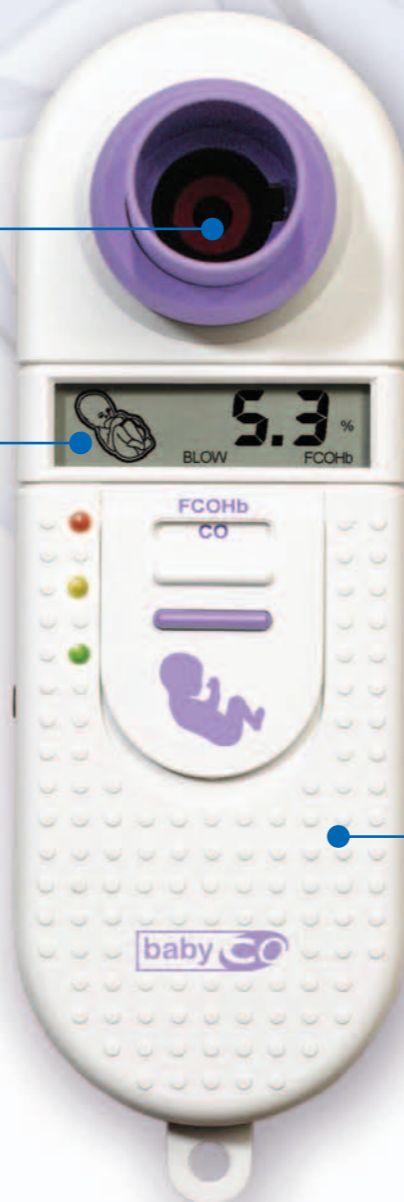


Customer Benefits and Features of the Baby CO

The Baby CO is the gold standard in CO breath testing and is the most advanced system currently available today. A single breath from the mother will immediately show the percentage of carbon monoxide attached to the baby's red blood cells (%FCOHB).

Ease of Use

Measurements are easily obtained from a single expiration and are aided by an auto-zero function when the unit is turned on. These results are then instantly displayed on the large liquid crystal display.



Setting new standards in the field of smoking cessation

Measuring breath carbon monoxide is an established technique used in smoking cessation clinics worldwide. Micro Medical has produced in excess of 30,000 breath carbon monoxide monitors and has distributed them to over 50 countries.

The Baby CO is the latest addition to the CO family and is a powerful diagnostic tool for measuring alveolar Carbon Monoxide in PPM concentrations. This is measured simply from the mother's expired breath. From this measurement the amount of Carbon Monoxide in the foetus is derived and is represented as foetal Carboxyhaemoglobin (%FCOHB). The mother's CO concentration in PPM will then be displayed, along with the foetal %COHB.

Design Innovation

An ergonomically designed unit of distinctive appearance, the textured handgrip encourages easy and reassuring use. The Baby CO is small, lightweight and is moulded from high impact ABS for durability.

Babies born to mothers who smoke:

- Are more likely to be born prematurely and with a low birth weight (below 2.5kg or 5lb 8oz).⁶
- Have a birth weight on average 200g (7oz) less than those born to non-smokers. This effect increases proportionally - the more the mother smokes, the less the child weighs.⁷
- Have organs that are smaller on average than babies born to non-smokers.⁸
- Have poorer lung function and increased prevalence of asthma.⁹
- Are twice as likely to die from cot death.¹⁰



Complete with all accessories

The Baby CO comes complete with a hard shell carry case, sample cardboard mouthpieces, one-way

plastic mouthpiece adaptor, calibration adaptor, calibration tool, 9V PP3 battery and operating manual. Catalogue numbers of the Baby CO and all consumables are featured on the reverse page.



Disposable Mouthpieces

Available in boxes of 250 or an easy to use dispenser box of 50.

Calibration Gases

In order to keep your Baby CO in pristine working condition, and always have at your disposal reproducible results, the Baby CO will require calibration at six monthly intervals. Calibration can easily and safely be carried out by the end user with our Medican, 1 litre size calibration cylinder. Alternatively, a calibration service is available by returning your Baby CO to Micro Medical Ltd or an authorised Micro Medical agent.

