

# piCO<sup>+</sup> Smokerlyzer<sup>®</sup>



Visually motivational breath carbon monoxide (CO) monitor



Low cost and visually motivational, the piCO<sup>+</sup> has user profiles for adult smokers, young smokers and pregnant women, as well as the ability to create custom settings, making it a favourite with stop smoking clinics.



scientific contributions to health

[www.bedfont.com](http://www.bedfont.com)

# piCO<sup>+</sup> Smokerlyzer<sup>®</sup>

The Smokerlyzer range of products is clinically proven and has become the benchmark used throughout the world by health professionals working in smoking cessation programmes and research.

The piCO<sup>+</sup> is the most cost effective monitor in Bedfont's Smokerlyzer range. This monitor allows those involved in smoking cessation groups and clinics the opportunity to offer motivational CO breath tests to those stopping smoking.

The monitor has adult, adolescent and custom profile settings. Results from the monitor can be converted into foetal %COHb with our MaternityCO Chart, for use with pregnant women.

Readings are displayed on a liquid crystal display in single ppm and %COHb as well as utilising motivational traffic lights alongside the readout showing smoking status. These results can then be used as a starting point on the stop smoking journey allowing people to see the positive effect that stopping smoking is having on their health.

## Benefits

- Motivates the smoker to stop
- Low maintenance costs
- Supported by a wide range of stop smoking resources
- Can also be used to screen for CO poisoning and smoke inhalation
- Compatible with COdata<sup>+</sup> software which can develop databases and personalised settings

## Features

- Easy to read display with instant results
- Auto-zero and breath hold countdown timer
- Anti-bacterial filter and one way valve for increased infection control
- Easy to use and calibrate by non-technical staff
- Exact smoking status can be established
- Essential tool for any stop smoking intervention



## Calibration and Servicing

The piCO<sup>+</sup> Smokerlyzer monitor requires calibrating at least every six months. Calibration is easy to achieve by non-technical staff and Bedfont's own calibration kits.

The piCO<sup>+</sup> must be calibrated with Bedfont 20ppm CO in air. This is available direct from Bedfont in a new Cali-bag which holds enough gas for one calibration, a 5 litre canister, 20 litre canister and 110 litre canister for approximately 3, 10 and 200 calibrations respectively. A range of service packages are also available.



## Technical Specification

Concentration Range:	0–80ppm
Display:	LCD with 1ppm increments
Detection principle:	Electrochemical sensor
Accuracy (repeatability of reading):	+/- 2%
Hydrogen cross-sensitivity:	<10%
Batteries:	2 x AA (LR6 or equivalent) alkaline batteries
Response time:	Typically <30 seconds to 90% FSD
Operating temperature range:	0–40°C (Storage 0–50°C)
Operating humidity:	10–90% (Storage 0–95%) non-condensing
Sensor operating life:	5 years (2 year warranty)
Sensor sensitivity:	1ppm
Dimensions:	Approx 45 x 75 x 120mm
Weight:	Approx 200g including batteries
Construction:	Body – Polycarbonate / ABS blend with elastomeric overmould. D-piece – Polypropylene



## Consumables

Bedfont Scientific supply a range of consumables to complement your piCO<sup>+</sup> Smokerlyzer. It is recommended that you use Bedfont consumables for optimum performance from your monitor.



### Flatpak Mouthpieces

The Flatpak mouthpiece has revolutionised the world of breath monitor mouthpieces. These mouthpieces take up less than a tenth of the space of normal cardboard mouthpieces. They are also packed in batches of 25 to reduce handling and the risk of cross-infection and are available in boxes of 50 or 250.

### D-pieces

The D-piece incorporates a one-way valve to prevent air being drawn back from the monitor. The breath then passes through an infection control filter, proven to remove and trap >99.9% of airborne bacteria<sup>1</sup>. This system further reduces the risks of cross infection and protects the instrument from contamination.



<sup>1</sup> Health Protection Agency (HPA), Porton Down, Report No 43/06, pp.10-11

### Instrument Cleansing Wipes

Bedfont provide instrument cleansing wipes for the instrument and external D-piece surfaces. Cleaning products containing alcohol should never be used, as they could affect the accuracy of the instrument. It is recommended that wipes are used for one surface only.

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