

GastroCH₄ECK™ Gastrolyzer®



CH₄ (methane), H₂ (Hydrogen) and O₂ (Oxygen) Monitor

Accurate and real-time combined CH₄, H₂ and O₂ monitoring

The GastroCH₄ECK™ portable breath CH₄, H₂ and O₂ monitor allows health professionals to accurately detect a range of gastrointestinal disorders. An O₂ reading is taken to motivate patients into providing an end-tidal sample. If they are unable to do this the GastroCH₄ECK™ will automatically correct the reading saving the patient from embarrassment and having to carry out another test.

Features/Benefits

- Online breath sampling for instant results.
- Breath bag sampling for simultaneous testing of larger groups.
- Requires calibration just once per month, saving precious time and calibration gas costs.
- Fast warm up time of 30 minutes.
- O₂ correction for accurate results.
- Real-time reading graph shown on screen to motivate patients and give instant results.
- Consumables contain anti-bacterial filters for optimum infection control.

“Medical literature shows that the level of methane producers varies by gender and population group from approximately 33-41%^{1,2,3}”

¹ D. Roccarina et al- The Role of Methane in Intestinal Diseases-2010

² MD Levitt et al- The possible role of breath methane measurement in detecting carbohydrate malabsorption

³ P Pitt et al- Studies on breath methane: the effect of ethnic origins- Gut pg 951-959, 21-1980



Applications

The GastroCH₄ECK can be used as an aid to diagnose the following disorders:

- Carbohydrate Breakdown Deficiency
- Carbohydrate Malabsorption
- Lactose Intolerance
- Bacterial Overgrowth
- Determination of time passage through gut

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breath analysis is the new blood test

GastroCH₄ECK™ Technical Specification:

Power Supply:	Mains power 230 V [110 V compatible]
Warm-up time:	30 minutes
Calibration frequency:	Once a month
Detection Principle:	Electrochemical and Optical sensors
Temperature Range:	Operational: 15 - 35 degrees °C Storage: 0 - 40 °C
Humidity Range	Operational: 30 - 75% non- condensing Storage: 30 - 75% non- condensing
Dimensions:	300 x 265 x 140 mm
Weight:	Approx. 6kg
Gas Ranges	
Gases measured:	CH ₄ (Methane) H ₂ (Hydrogen) O ₂ (Oxygen)
Range:	CH ₄ 0 – 200 ppm, H ₂ 0 – 200 ppm, O ₂ 0 – 100%
Accuracy:	CH ₄ Resolution: 1 ppm Accuracy: +/- (10% of reading)* H ₂ Resolution: 1 ppm Accuracy: ± 10%** O ₂ Resolution: 0.1% Accuracy: +/-2% full scale
Test time:	CH ₄ / H ₂ / O ₂ Approximately 60 seconds

*Conditions during factory calibration, typically 20°C, 1,000 mBar

**Calibrated and used at the same temperature

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