



Breath Monitors

Hydrogenius® & Gastrogenius®

GASTROENTEROLOGY

Hydrogen and methane breath monitoring to help detect gastrointestinal disorders





Hydrogenius

Compact, hand-held hydrogen breath monitor

Hydrogenius® is a breath monitor used for Hydrogen Breath Testing (HBT) and measures hydrogen (H₂) levels in expired breath. It can be used to detect gastrointestinal disorders like food malabsorption, sugar intolerances and small intestinal bacterial overgrowth (SIBO) in a non-invasive, patient friendly manner.

Hydrogenius® is a user-friendly, hand-held monitor that allows automatic testing for up to 10 patients in one session. It can be used without any start up time, gives quick results and has built-in suggested testing protocols and alarms for increased ease of use.

HYDROGENIUS® HIGHLIGHTS

- · Easy to use interface
- · No start up time and quick results
- Multiple patient testing: measure up to 10 patients at the same time
- · Large touch screen
- Hydrochart[™] software enables easy storage, data analysis, and report printing
- Built-in suggested test protocols and alarms
- · Simple calibration required every 3 months
- · Maintenance reminders



Free Hydrochart[™] software is included with both Hydrogenius[®] and Gastrogenius[®].

Gastrogenius

Combined methane, hydrogen, and oxygen measurement

The Gastrogenius® is a portable desktop monitor which measures hydrogen (H₂), methane (CH₄), and oxygen (O₂) levels in expired breath samples. It helps health professionals to accurately detect gastrointestinal disorders like food malabsorption, sugar intolerances, and small intestinal bacterial overgrowth (SIBO).

A group of patients does not produce hydrogen and would not be diagnosed by Hydrogen Breath Testing (HBT) alone. By performing Hydrogen and Methane Breath Testing (HMBT) using Gastrogenius®, misdiagnosis can be prevented for patients who only produce methane, or who produce a combination of both hydrogen and methane. The additional O2 reading, in combination with a real-time traffic light dial and smiley face system, helps motivate patients to provide an end-tidal sample.

The Gastrogenius® provides automatic O₂ correction for more accurate results.



GASTROGENIUS® HIGHLIGHTS

- Hydrogen and Methane Breath Testing (HMBT) with quick results
- Breath bag option makes it possible to test multiple patients at the same time
- Breath bag option allows samples to be taken in a different room or at a different location
- Automatic O₂ correction for more accurate results
- Real-time traffic light dial and smiley face system to motivate patients
- Hydrochart[™] software enables easy storage, data analysis, and report printing
- Fast warm up time of 30 minutes
- · Simple calibration only required monthly
- Maintenance reminders



Multiple patient testing



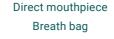


Create and save patient details

Built-in testing protocol













mask Easy interpretation

2 Laborie Breath Monitors

Technical specifications

Hydrogenius®	
Concentration range	0 - 500 ppm
Display	Full colour touchscreen
Detection principle	Electrochemical sensor
Repeatability	< 5%
Accuracy	≤± 3ppm/10% – whichever is greater*
Power	3 x AA (LR6 or equivalent) – up to 1000 minutes, 1 x CR2032 Lithium coin cell
T ₉₀ response time	< 40 seconds
Operating temperature	15 - 35°C
Storage/transport temperature	0 - 50°C
Operating/storage/ transport/pressure	Atmospheric ±10%
Operating humidity	15 - 90% non-condensing
Storage/transport humidity	0 - 95%
Sensor operating life	2 years
Sensor sensitivity	1ppm
Sensor drift	< 2% per month
Dimensions	Approx. 37 x77 x 140mm
Weight	Approx. 215g (including batteries)
Materials	Case: polycarbonate/ABS blend Anti-microbial additive D-piece™: polypropylene SteriBreath™ Eco: paper OneBreath™ Mouthpiece: polypropylene
CO cross reference	< 4%

Readings of >200ppm a	t temperatures	between	26-35°C can	decrease	accuracy to 15%	6
3					,	

Gastrogenius®	
Concentration range	0-200 ppm (H & CH ₂) 14-23% (O ₂)
Power input	230V/100V, 50Hz - 60 Hz, 0.5 - 1.0 A
Fuse	T 3.15 AH
Start-up time	≤ 2 minutes
Calibration frequency	Every 4 weeks
Display	Full colour touchscreen

Gastrogenius® continued				
Detection principle	Electrochemical sensor (O ₂ & H ₂) Laser (CH ₄)			
Detection principle	Electrochemical sensor			
Accuracy - CH ₄ & H ₂				
Resolution	1 ppm			
Accuracy	± 10% of reading			
Repeatability	< 5% difference on consecutive readings			
Carbon monoxide cross-sensitivity (H ₂ only)	< 4%			
Accuracy - 0 ₂				
Resolution	0.1%			
Accuracy	± 10% of reading			
Repeatability	< 5% difference on consecutive readings			
Temperature range				
Operating	15 - 35°C (59° - 95°F)			
Storage	0 - 40°C (32° - 104°F)			
Pressure range				
Operating	912 - 1114 mbar (Atmospheric ±10%)			
Storage	912 - 1114 mbar (Atmospheric ±10%)			
Humidity range				
Operating	30 - 75% RH (non-condensing)			
Storage	15 - 90% RH (non-condensing)			
Sensor operating life	5 years (CH ₄), 2 years (H ₂ & 0 ₂)			
Dimensions	Approx. 474 x 310 x 135 mm			
Weight	Approx. 8.5kg			
Monitor construction	Case: aluminum			
Classification	Class I ME equipment: (externally powered), Type BF applied part, Method of sterilization (not suitable for sterilization), Not suitable for use in an oxygen rich environment, Intended for continuous use			
Response time	≤45 seconds			
Warranty	2 years*			

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