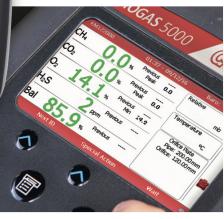


PORTABLE GAS ANALYSER | ANAEROBIC DIGESTION

Easy to use, calibrate and configure and enables consistent collection of data for improved analysis and accurate reporting, whilst helping to check the digester process is running efficiently.









FEATURES

- Certified: ATEX, IECEx, CSA, MCERTS and UKAS calibration (ISO17025)
- Robust design for market leading reliability
- CH₄ and CO₂ accuracy ± 0.5% after calibration
- Choice of user settings and simple gas reading function
- Measures % CH₄, CO₂ and O₂
- Modular and upgradeable
- 3 year warranty
- Stores and downloads readings
- User selected languages
- Event log
- Datalogging and profiling function
- Up to 6 gases monitored

BENEFITS

- Enables consistent collection of data for improved analysis and accurate reporting
- No need for self-certification of anemometer
- Easy to use and calibrate
- User configurable operation
- Helps check digester process is running efficiently

OPTIONS (AVAILABLE AT PURCHASE OR LATER)

- H₂S to 0-5,000ppm or 0-10,000ppm
- Additional gases including H₂ and NH₃
- Gas Analyser Manager software for data download
- External flow devices: anemometer (ATEX) / Pitot tubes
- ATEX certified temperature probe
- Bluetooth communications for data download

SECTOR

Biogas

APPLICATIONS

- Farm digester
- biogas monitoring
- Methane recovery

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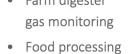
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Waste water

biogas monitoring

TECHNICAL SPECIFICATIONS

POWER SUPPLY					
Battery type	Rechargeable nickel metal hydride battery pack (not user replaceable)				
Battery life	Typical use 8 hours from fully charged				
Battery charger	Separate intelligent battery charger powered from mains supply (100- 240V)				
Charge time	Approximately 4 hours from complete discharge				
GAS RANGES					
Gases measured	CH_4 and CO_2	By dual wavelength i	infrared conser with reference	a channol	
		By dual wavelength infrared sensor with reference channel			
	0 ₂	By internal electrochemical cell			
	$H_2S/H_2/CO/NH_3$	By internal electrochemical cell			
Standard gas cells	Cell	Range	Typical accuracy* (range : accuracy)	Typical accuracy* (range : accuracy)	
	CH ₄	0-100%	0-70% : ±0.5% (vol)	70-100% : ±1.5% (vol)	
	CO ₂	0-100%	0-60% : ±0.5% (vol)	60-100% : ±1.5% (vol)	
	0 ₂	0-25%	0-25% : ±1.0% (vol)		
	Cell	Range	Typical accuracy*		
	H ₂ S	0-50ppm	±1.5% FS	±1.5% FS	
	H ₂ S	0-200ppm	±2.0% FS	±2.0% FS	
	H ₂ S	0-500ppm	±2.0% FS	±2.0% FS	
Optional gas cells	H ₂ S	0-1,000ppm	±2.0% FS	±2.0% FS	
	H ₂ S	0-5,000ppm	±2.0% FS	±2.0% FS	
	H ₂ S	0-10,000ppm	±5.0% FS	±5.0% FS	
	СО	0-500ppm	±2.0% FS	±2.0% FS	
	СО	0-1,000ppm	±2.0% FS	±2.0% FS	
	СО	0-2,000ppm	±2.0% FS	±2.0% FS	
	CO (H ₂)**	0-2,000ppm	±1.0% FS	±1.0% FS	
	NH ₃	0-1,000ppm	±10.0% FS	±10.0% FS	
	H ₂	0-1,000ppm	±2.5% FS	±2.5% FS	
*Typical accuracies	All typical accuracies quoted are after calibration plus accuracy of calibration gas used.				
**Hydrogen compensated carbon monoxide measurement	Hydrogen cross gas effect on carbon monoxide approximately 1%. Do not use where hydrogen is in excess of 10,000 ppm.				
Response time, T90	CH₄ ≤10 seconds				
	CO ₂	≤10 seconds			
	0 ₂	≤20 seconds			
	H ₂ S	≤30 seconds			
	со	≤30 seconds			
	NH ₃	≤90 seconds			
	H ₂	<90 seconds			

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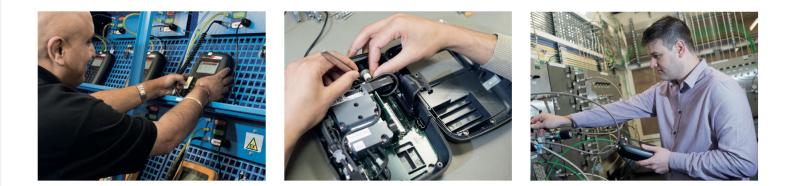
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TECHNICAL SPECIFICATIONS CONTINUED

РИМР			
Flow	550 ml/min typically		
Flow fail point	-200 mbar vacuum- user settable		
Maximum vacuum restart	-250 mbar approximately with flow rate of approx 250ml/min		
FACILITIES			
Temperature measurement	-10°C to +75°C with optional probe		
Temperature accuracy	±0.5°C with optional probe		
Flow measurement	Via Pitot tube, orifice plate, or anemometer		
Alarm	User selectable alarms		
Communications	Via USB lead or wireless Bluetooth*		
Relative pressure measurement	±250 mbar		
Relative pressure accuracy	\pm 4 mbar typically (should be zeroed before reading) to \pm 15 mbar max		
Barometric pressure measurement	500 to 1500 mbar, ±5 mbar accuracy		
Available memory	10 IDs*, 500 readings		
ENVIRONMENTAL CONDITIONS			
Operating temperature range	-10°C to +50°C		
Atmospheric pressure range	700 to 1200 mbar		
Relative humidity	0-95% non condensing		
Case seal	IP65		
*Gas Analyser Manager software required. Bluetooth is an optional extra.			



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PHYSICAL		
Weight	1.6kg	
Size	L 220mm, W 155mm, D 60mm	
Case material	High impact ABS composite with rubber over-moulding	
Keys	Alpha-numeric keypad with 'tactile' membrane	
Display	Ultra-clear high resolution 4.3" full colour TFT	
Connections	Colour coded gas inlet, outlet and pressure ports. Waterproof USB port, anemometer and charger / temperature probe connections.	
Gas sample filters	External user changeable 2.0µm ptfe water traps	
CERTIFICATION RAT	ING	
ATEX / IECEx	☑ II 2G Ex ib IIA T1 Gb (Ta =-10°C to +50°C)	
MCERTS	MC / 130240	
ISO17025	Calibration to UKAS certificate number 4533	
CSA	Ex ib IIA T1 (Ta=-10°C to +50°C) (Canada), AEx ib IIA T1 (Ta=-10°C to +50°C) (USA)	
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