

@<mark>eotec</mark>h

PORTABLE GAS ANALYSER | LANDFILL & CONTAMINATED LAND

The Geotech GA5000 is a landfill and contaminated land portable gas analyser, with available gas measurements of CH₄, CO₂, O₂, H₂S and CO. It is easy to use and calibrate, benefitting from our market leading reliability and helping you to standardise monitoring routines, whilst supporting environmental legislation compliance.



FEATURES

- Certified: ATEX, IECEx, CSA, MCERTS and UKAS calibration (ISO17025)
- Measures % CH₄, CO₂, and O₂
- Measures barometric pressure and relative pressure
- Peak and previous readings shown
- Choice of user settings and simple gas reading function
- Simultaneous display of all gases
- 3 year warranty
- CH₄ and CO₂ accuracy ± 0.5% after calibration
- Modular and upgradeable
- Memory: 2.000 IDs* and 4.000 readings (* with GAM software)
- Data logging and profiling function
- Up to 6 gases monitored

BENEFITS

- Easy to use and calibrate
- Supports environmental legislation compliance
- Market leading reliability
- Standardises monitoring routines
- Easy transfer of data

SECTOR

🌚 Landfill

APPLICATIONS

- Landfill gas monitoring
- Waste to energy
- Site investigation



OPTIONS (AVAILABLE AT PURCHASE OR LATER)

- Choice of additional gases including H₂S to 10,000ppm, and H₂ compensated CO
- Borehole gas flow (I / h)
- Flow logging for improved borehole analysis
- GPS / field navigator
- Gas Analyser Manager software for data download
- ATEX certified anemometer
- Bluetooth communications for data download

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GA5000

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	CO ₂ and CH ₄ By dual wavelength infrared sensor with reference channel				
	0 ₂	By internal electrochemical sensor			
	CO (H_2 compensated), H_2S , NH_3 and H_2 (optional)				
	A full range of internal gas cells can be specified at the time of manufacture				
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)		
Optional gas cells	Cell	Range	Typical accuracy*	Typical accuracy*	
	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	
	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	
	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	
	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 10,000ppm				
Response time, T90	CH₄ ≤10 seconds				
	CO ₂	≤10 seconds			
	0 ₂	≤20 seconds			
	СО	≤30 seconds			
	H ₂ S	≤30 seconds			
	NH ₃	≤90 seconds			
	H ₂	≤90 seconds			
PUMP					
Flow	550 ml / min typically				
Flow fail point	-200 mbar vacuum- user settable				
Maximum vacuum restart	-375 mbar approximatel	v with flow rate of ann	rox 80ml / min		

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TECHNICAL SPECIFICATIONS CONTINUED

Temperature measurement	-10°C to +75°C with optional probe		
Temperature accuracy	±0.5°C with optional probe		
Flow from borehole	0-20 l / hr internal measurement		
Flow from borehole accuracy	±0.3 l / hr		
Alarm	User selectable alarm levels		
Communications	Via USB lead or wireless Bluetooth*		
Relative pressure measurement	±500 mbar		
Relative pressure accuracy	±4 mbar typically (should be zeroed before reading) to ±15 mbar max		
Barometric pressure measurement	500 to 1500 mbar, ±5 mbar accuracy		
GPS sensor	Location and positioning		
Available memory	2,000 IDs *, 4000 readings, 2,000 events *		
ENVIRONMENTAL CONDIT	IONS		
Operating temperature range	-10°C to +50°C		
Atmospheric pressure range	700 to 1200 mbar		
Relative humidity	0-95% non condensing		
Case seal	IP65		
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 RATING			
ATEX / IECEx	II 2G Ex ib IIA T1 Gb (Ta =-10°C to +50°C)		
MCERTS	MC130238		
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)		
	required. Bluetooth is an optional extra.		

We do, however, reserve the right to change the specification without prior notice as a result of continuing development.



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