



 Air-Met Scientific Pty Ltd

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PORTABLE GAS ANALYSER | LANDFILL & CONTAMINATED LAND

The Geotech GA5000 is a landfill and contaminated land portable gas analyser, with available gas measurements of CH_4 , CO_2 , O_2 , H_2S and CO. It is easy to use and calibrate, benefiting from our market leading reliability and helping you to standardise monitoring routines, whilst supporting environmental legislation compliance.



SECTOR

🐷 Landfill

APPLICATIONS

- Landfill gas
 monitoring
- Waste to energy
- Site investigation



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
- CH_4 and CO_2 accuracy $\pm 0.5\%$ 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

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

© Product designs and specifications are subject to change without notice. User is responsible for determining suitability of product.

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					
	CO ₂ and CH ₄ By dual wavelength infrared sensor with reference channel				
Gases measured	O_2	By internal electrochemical sensor			
	CO (H ₂ compensated), H ₂ S, NH ₃ and H ₂ (optional)	pensated),			
	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)		
	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	
Optional gas cells	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		
	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				
*Hydrogen compensated carbon monoxide measurement	Hydrogen cross gas effect on carbon monoxide approximately 1%. Do not use where hyrdogen is in excess of 10,000ppm				
Response time, T90	CH₄ ≤10 seconds				
	CO ₂	≤10 seconds			
	0 ₂	2 ≤20 seconds			
	CO ≤30 seconds				
	H ₂ S	≤30 seconds			
	NH ₃	≤90 seconds			
	H ₂	H₂ ≤90 seconds			
PUMP					
Flow	550 ml / min typically				
Flow fail point	-200 mbar vacuum- user settable				
Maximum vacuum restart	-375 mbar approximately with flow rate of approx 80ml / min				

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GA5000

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	±0.31/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	ABS / polypropylene 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	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)		
* Gas Analyser Manager software	required.		
	in this document is correct at the time of generation. t to change the specification without prior notice as a result of continuing development.		



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