

ANALIZADOR DE GAS PORTÁTIL | VERTEDEROS & SITIOS CONTAMINADOS

El analizador GA5000 es un analizador de gas portátil para vertedero o sitios contaminados con mediciones de gases disponibles de CH₄, CO₂, O₂, H₂S y CO con datalogger programable, posibilidad de otros gases NH₃ y SO₂. Está certificado para poder usarse en atmósferas explosivas conforme a la directiva ATEX 94/9/EC (grupo y categoría del equipo: EX II 2 G y concepto de protección Ex ib IIA T1 (Ta = -10 °C a +50 °C)).



CARACTERÍSTICAS

- Certificados: ATEX, IECEx, CSA, MCERTS y UKAS calibración (ISO17025)
- Medidas % CH₄, CO₂ y O₂
- Medidas de presión barométrica y presión relativa
- Se muestran lecturas previas y máximas.
- Opciones de usuario y funciones simple de lectura
- Muestra simultáneamente todos los gases
- 3 años de garantía
- La precisión de CH₄ y CO₂ es de ± 0.5% luego de la calibración
- Modular y actualizable
- Memoria: 2.000 IDs* y 4.000 lecturas (* con el software GAM)
- Almacena y descarga de lecturas
- Monitorea hasta 6 gases

BENEFICIOS

- Fácil de usar y calibrar
- Apoya el cumplimiento de la legislación ambiental
- Fiabilidad líder en el mercado
- Estandarizar las rutinas de monitoreo
- Fácil transferencia de datos

SECTOR

Vertederos

APLICACIONES

- Monitoreo de gas en vertederos
- Residuo a energía
- Sitios de investigación



OPCIONALES (DISPONIBLES EN EL PEDIDO INICIAL O POSTERIORMENTE)

- Sondas Adicionales para SH₂ desde 0 a 5.000 ppm o 0 a 10.000 ppm
- Datalogger de flujo
- Software Gas Analyzer Manager para la descarga de datos
- GPS
- Medidores de flujo externos anemómetro (ATEX)/ Tubos de Pitot
- Filtros antihumedad
- Bolsa Flexible para trabajo en campo



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		
	O ₂	By internal electrochemical sensor		
	CO (H ₂ compensated), H ₂ S, NH ₃ and H ₂ (optional)	By internal electrochemical sensor		
	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)
	O ₂	0-25%	0-25% : ±1.0% (vol)	
Optional gas cells	Cell	Range	Typical accuracy	
	CO	0-500ppm	±2.0% FS	
	CO	0-1,000ppm	±2.0% FS	
	CO	0-2,000ppm	±2.0% FS	
	CO (H ₂) +	0-2,000ppm	±1.0% FS	
	H ₂ S	0-50ppm	±1.5% FS	
	H ₂ S	0-200ppm	±2.0% FS	
	H ₂ S	0-500ppm	±2.0% FS	
	H ₂ S	0-1,000ppm	±2.0% FS	
	H ₂ S	0-5,000ppm	±2.0% FS	
	H ₂ S	0-10,000ppm	±5.0% FS	
	NH ₃	0-1,000ppm	±10.0% FS	
	H ₂	0-1,000ppm	±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 hydrogen is in excess of 10,000ppm			
Response time, T90	CH ₄	≤10 seconds		
	CO ₂	≤10 seconds		
	O ₂	≤20 seconds		
	CO	≤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 approximately with flow rate of approx 80ml / min			

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TECHNICAL SPECIFICATIONS CONTINUED

FACILITIES	
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 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
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.	
Important note: The information in this document is correct at the time of generation. We do, however, reserve the right to change the specification without prior notice as a result of continuing development.	

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