GAS 3240P+ Handheld BIOGAS Analyser



Available configuration

Model ref. Sensor configuration GAS 3240P+ $CH_4 + CO_2 + O_2 + H_2S$

Options in development (1) GAS 3250P+ $CH_4+CO_2+O_2+H_2S+H_2$ CH₄+CO₂+O₂+H₂S+H₂+CO GAS 3260P+ External Probe for biogas flow /velocity External Probe for biogas pressure External Probe for biogas temperature

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4 [to 6]⁽¹⁾ gases: CH₄, CO₂, O₂, H₂S, [H₂, CO]⁽¹⁾ Data recording with GPS geo-localisation Data transfer by Bluetooth Highly compact & portable (only 1.2 kg) [Biogas flow & velocity, pressure & temperature]⁽¹⁾





One analyser for all your Biogas measurement needs





Key features

- Robust enclosure for outdoor use (ABS, Polypropylene, rubber moulding)
- Ergonomic & compact design (W196 x D66 x H295 mm)
- High portability (1.2 Kg only) ideal for Landfill biogas monitoring
- **Unique configuration with 4 measurement channels:** NDIR dual beam detectors for $CH_4\%$ (100%) and $CO_2\%$ (50% or 100%) Long-life (4-5 years) ECD galvanic fuel cell for $O_2\%$ (25%) ECD sensor for H_2S ppm (0-5000 ppm or 0-9999 ppm or 0-2%) Outienel senser with a term of CENCDOD (in dual parameter)
- Optional sensors with external SENSPOD (in development)
- ECD sensor for H_2 ppm (0-1000 or 2000 ppm) external SENS-POD ECD sensor for CO ppm (0-2000 or 4000 ppm) external SENS-POD
- High-resolution full colour 3.2" TFT display with configurable backlit
- Intuitive software interface and easy to operate tactile keyboard
- Integrated gas sampling pump
- Internal data recording function with GPS function
- Special data software APP for Android smartphones
- Wireless data transfer via Bluetooth
- Battery charger for w/rechargeable Li-ION battery
- 6h+ operation
- 2 auxiliary ports for optional probes (see options)

Standard package delivery

The analyser (N°1) is delivered with its standard accessories into a hard plastic shock- and waterproof suitcase with carrying shoulder trap (N°3), dimensions L365*W270*H140 mm, weight 1,77 kg

- Power adapter and cable (N°7 & 8)
- 2x 2mt gas tubing (gas inlet/gas outlet) with push-in connector (N°4)
- 1 piece conical biogas sampling probe with integrated filter pad (N°5)
- 2 pieces in-line 0.2µm Teflon filter for moisture removal (N°6)
- 3 pieces Lithium batteries 2200mAH

Options in development (1)

- External SENS-POD with 2 ECD sensors for H_2 +CO
- External probe for biogas flow/velocity
- External probe for biogas pressure
- External probe for biogas temperature

Non contractual pictures and specifications - Subject to changes without prior notification - Issue -EN17v4

TECHNICAL SPECIFICATIONS

Mechanical

Transport and storage casing	Hard plastic shock- and waterproof suitcase with carrying shoulder trap Dimensions L365*W270*H140 mm, weight 1.77 kg		
Analyser enclosure	Robust casing for outdoor use (ABS, Polypropylene and rubber moulding) 90° rotating handle for carrying or for use as desk type analyser Dimensions W196 x D66 x H295 mm, weight 1.2 kg		
Operation			
Power supply	3x 2200mAH Li-ion rechargeable batter providing \geq 6h autonomy 220 VAC-50Hz/5VDC-2A power adapter with USB cable for battery charging		
User/instrument interface	Easy to operate tactile keyboard and intuitive software interface		
Display	High-resolution full colour 3.2" TFT display with configurable backlit		
Ambient operating conditions	Temperature: 0-50°C; Pressure: 86 to 108 kPa; RH: 0-95% non condensing		
Warm-up time	10 seconds		
Sensor zero drift correction	Mandatory, by zeroing cycle in clean air before starting the measurements		
Gas sampling	By internal gas sampling pump		
Gas conditions at analyser inlet	Max. negative pressure : -200mbar @1L/min Max. positive pressure : 20 to 50 mbar (with outlet port at Patm) Nominal flow: 1L/min Quality: clean and dry gas (no condensing moisture)		
Gas pre-treatment	Conical biogas probe with integrated filter pad In-line 0.2 μ PTFE filter to place in the gas sampling tubing		
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Gas measurements and performances

Gases	Sensor type	Availability & Ranges	Resolution	Accuracy	Repeatability	Estimated life time	
Standard sensor configuration							
CH ₄	NDIR	0-100%	0.01%	$\leq \pm 2\%$ FS	$\leq \pm 1\%$ FS	≥5 years	
CO ₂	NDIR	0-50% or 100%	0.01%	$\leq \pm 2\%$ FS	$\leq \pm 1\%$ FS	≥5 years	
O ₂	ECD	0-25 %	0.01%	$\leq \pm 2\%$ FS	$\leq \pm 1\%$ FS	≥3 years	
H ₂ S	ECD	0-5000 or 0-9999 ppm or 0-2%	1 ppm	≤ ±3% FS	$\leq \pm 1\%$ FS	±12 months	
Optional sensors in external GAS-POD probe (in development)							
H ₂	ECD	0-1000 or 0-2000 ppm	1 ppm	$\leq \pm 3\%$ FS	$\leq \pm 1\%$ FS	±18 months	
CO	ECD	0-2000 or 0-4000 ppm	1 ppm	$\leq \pm 2\%$ FS	$\leq \pm 1\%$ FS	±18 months	

Optional probe for Biogas velocity & flow measurement (in development)

Thermal sensor probe powered by the analyser: the analyser calculates the gas velocity (m/sec) based on the heat dissipated by the gas flowing through the thermal sensor; the gas flow (m^3/h) is calculated using the gas velocity value and the diameter of the biogas duct configured by the operator in the software of the analyser

Optional probes for biogas temperature and pressure measurement (in development)

Data management (standard functions)

Data Recording function	Internal data logging of up to 2560 sets of data, adjustable logging rate, up to 99 different locations and 64 groups of measurements per location
GPS function	All data are automatically recorded with their GPS coordinates
Communication	Data transfer by wireless Bluetooth
Data software	Specific App for Android smartphones





