

Portable analyser for measuring Biogasses



The LFG30 is a portable gas analyser for the measurement of Methane (CH₄), Carbon Dioxide (CO₂), Oxygen (O₂) and Hydrogen Sulphide (H₂S). It is ideally suitable for landfill and cogeneration plant applications.

This lightweight portable analyser (circa 3kg) is supplied with a water resistant, shoulder-strap carrying case and powered by a Lithium-ION 20Ah battery for around 10 hours of continuous operation.

The concentration measurements are provided via a LCD display on the front panel. The unit is modular in design to achieve an excellent price-performance ratio and speedy, low low cost maintenance and repair.

Measurement Techniques

Criteria	CH ₄	CO ₂	O ₂	H ₂ S
Technology:	Infrared	Infrared	Electrochemical Cell	Electrochemical Cell
Linearity:	Within ±10%	Within ±10%		0- -40ppm error at f.s., linear at zero and 400ppm
Zero Repeatability:	±0.05%	±0.05%		
Span Repeatability:	±0.1% al 5% ±2% al 100%	±0.1% al 5% ±2% al 100%		
Response Time T90:	<30secs	<30secs	<15secs	<25secs
Accuracy:			±1% f.s.	
Average Life:			3-5 years	1-2 years
Ranges:	0-100%	0-100%	0-25%	0-2000ppm

Measurement Techniques continued:

As can be seen in the previous table, the analyser LFG30 uses a long life electrochemical cell for O₂, a specific electrochemical cell for H₂S and two separate Infrared sensors for CH₄ and CO₂ assuring precise and reliable measurements for each gas

Other Specifications

Criteria	All Gas Specification Models
Standard Accessories:	<ul style="list-style-type: none">- Hygroscopic 0,2µ disk filter- PVC sampling tubing- Battery charger- Plastic carrying case with shoulder strap: transparent front cover to allow reading the display without opening the case.
Optional Consumables and Spares:	<ul style="list-style-type: none">- Coalescence filter- Hygroscopic 0,2µ filters kit (10 pieces)
Warning Light:	Battery status on rear of enclosure.
Power Supply:	Rechargeable Lithium-Ion 20Ah battery (ca. 10 hours of continuous use)
Operating Temperature:	5-40°C
Sampling Pump:	Internal (200ml/min)
Warm-up Time:	Less than 60 sec
Dimensions:	230(h) x 210 x 80 mm
Weight:	1.2 Kg (ca 3kg with batteries)



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