BIOGAS 300

Geotech
A subsidiary of LANOTEC

FIXED GAS ANALYSER | ANAEROBIC DIGESTION

Easy to self-install, operate and maintain, the BIOGAS 300 is a cost effective fixed system biogas analyser for CH4 monitoring. Ideal for 500kW or reduced scale Anaerobic Digestion plants, from agricultural to food waste typical applications.

FEATURES

- Simple to operate - push button operation
- 0-100% CH4 measurement
- Single sample point monitoring
- Easy to read backlit display through transparent enclosure door
- Last reading stored for on-screen viewing
- IP65 rated ABS enclosure
- Modbus data output

BENEFITS

- No training required
- Zero service downtime, optional hot-swap
- Simple user calibration
- Field proven technology
- Quick and easy self-installation
- Low cost of ownership
- Compact self-contained system

SECTOR

Biogas

APPLICATIONS

- Farm waste AD (small scale)
- Mixed food waste AD
- Agricultural waste (small scale)

OPTIONS
(AVAILABLE AT PURCHASE OR LATER)

- 4-20mA output (with optional isolator) as an alternative to Modbus
- Pumped version

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BIOGAS 300

TECHNICAL SPECIFICATIONS

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GENERAL SPECIFICATION		
Number of sampling points	1	
Gases monitored	CH_4	
Sample pressure	Non-pump version suitable for +10 to +50 mb sample points Pumped version suitable for -100 to +350 mb sample points	
Operating temperature range	0°C to +50°C	
Detects low flow and blockages		
Reading obtained by user pressing sample button		
POWER		
Mains	110-240 Vac 50/60 Hz	
Power	12W	
Real time clock back up	Lithium manganese dioxide coin cell	
GAS RANGES		
Gases measured	CH_4	By dual wavelength infrared cell with reference channel
Range	CH_4	0-100%
Typical accuracy - after calibration*	CH_4	±2.0% vol
Response time, T90	CH_4	120 seconds**
PUMP (OPTIONAL)		
Flow	100ml/min typically	
Maximum vacuum restart	-100mb	
Maximum sample pipe length	50 meters***	
COMMUNICATION OPTIONS		
Output channels	Modbus (as standard) 4-20mA current sink (optional) 4-20mA current source via a loop powered isolator (optional)	
PHYSICAL		
Weight	max 10 kg	
Size	500 x 400 x 200mm	
Enclosure	ABS, IP65 rated (with supplied wall mounting brackets)	
Operation keys	Tactile five button membrane keypad and sample button	
Display	Liquid crystal display with 20 x 2 characters and white LED backlight	
Moisture removal filters	User replaceable inline PTFE filter and coalescing filters	
COMPLIANCE		
BS EN 61010-1: 2010	Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 1: General requirements	
BS EN 50270: 2006	Electromagnetic compatibility - electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen	

* Plus accuracy of calibration gas used.

** T90 taken from point gas enters the system at ambient pressure and 100ml / min flow rate. Different applications will increase or decrease time accordingly.

*** Note: sample pipe length will affect response times.

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