

ETG 6500

MULTICOMPONENT ANALYZER FOR **BIOGAS**



- Analysis of CO₂, CH₄, O₂, H₂S
- NDIR technology for CO₂ and CH₄
- Automatic air purge for long life H₂S cell
- Arm Processor
- Touch Screen monitor
- Ethernet and USB Remonting
- Analog & Digital Signal Output
- Low cost ownership
- 19 “ Rack mounting or Wall mounting version
- Modbus, Profibus, Ethernet (optional)
- Autozero
- Data downloadable on SD Card

The ETG 6500series of gas analyzers by ETG it's the ideal solution for biogas measurement and industrial combustion applications because of their accuracy, stability, reliability, broad measurement range, and the variety of available form factors.

Unlike other analyzers, ETG 6500 non-dispersive infrared (NDIR) gas analyzers measure multiple gases in an instrument with a single optical path platform.

Single-gas analyzers are inadequate when using methane as a biofuel because the gas often contains large amounts of CO as a contaminant. ETG analyzers have the ability to measure CO₂, CO, and O₂ in addition to methane and therefore provide the optimal combination of gases for combustion optimization.

The enhanced optics and electronics of our NDIR analyzers have virtually eliminated zero drift after the initial warm up period. The temperature and pressure compensation eliminates the major causes of span drift in many NDIR instruments.

MCA 100 BIO MULTICOMPONENT ANALYZER FOR BIOGAS

Measurement Method	Gas	Resolution	Range	Accuracy	Precision	Time
NDIR (Non-Dispersive Infrared)	Methane	0,01%	0-100%	+/- 1% F.S.	+/- 0,8%	T ₉₀ & T ₁₀ <10 seconds
			201ppm-40%	+/- 2% rel		
			40-80% 80-100%	+/- 1% rel +/- 5% rel		
NDIR (Non-Dispersive Infrared)	Carbon Dioxide	0,01%	0-50%	+/- 0,8 F.S.	+/-0,7%	T ₉₀ & T ₁₀ <10 seconds
			0.00-16.00% 16.01-20.00%	+/- 0,3% abs or +/- 3.0% rel +/- 5% rel	+/- 0,1% abs or +/- 0.8% rel	
Electro-chemical sensor	Oxygen	0,01%	1.01-25.00%	+/- 0,1% abs or +/- 3.0% rel	+/- 0,1% abs or +/- 1.5% rel	< 40 seconds from ambient to 0.15 O ₂
Electro-chemical sensor	Hydrogen Sulfide	1 ppm	0-2000 ppm 0-5000 ppm	+/- 5 ppm abs or +/- 3.0% rel	+/- 5 ppm abs or +/- 3.0% rel	T ₉₀ & T ₁₀ <20 seconds

SPECIFICATIONS

Response Time	Response times are specified at a sample flow rate of a 1 liter per minute through the MCA 100 sample cell
Data Refresh Rate	1 second
Warm-up Time	30 seconds ready,3 minutes useable,30 minutes to full performance
Operating Temperature	-10°C to 70° C (32° to 158° F)
Operating Humidity	To 95% RH (Non-condensing)
Operating Altitude	-300 to 3.000 m (-1.000 to 10.000 ft)
Communications (optional)	Ethernet – Profibus – Modbus
Analog Signal Output	4-20 ma for each measured compound

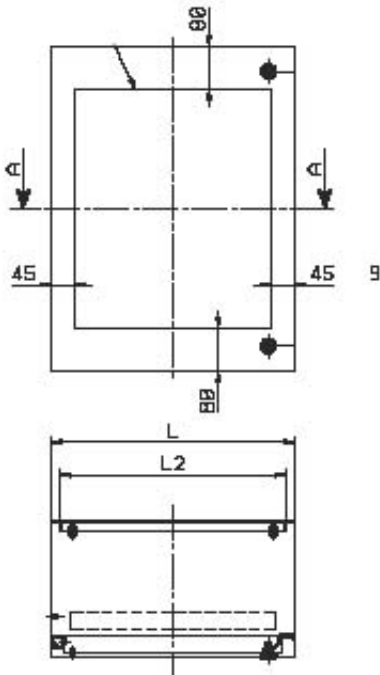
ETG6500 MULTICOMPONENT ANALYZER FOR BIOGAS

Digital Output	Configurable for gas concentration, analyzer fault, high temperature, etc..
Monitor	Touch Screen 5.7" Resistive type
Calibration	Zero & span user selectable. Automatic calibration (optional)
Electrical supply	from 100 to 240 Vac 47-63 Hz
Pneumatic connection	6.0 OD 4.0 ID
Mechanical dimensions	450 x 600 x 300 mm
Weight	15.75 kg

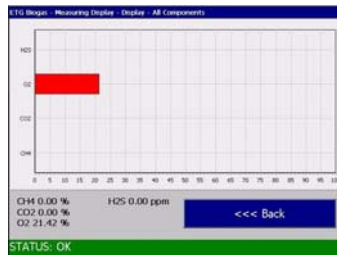
Mechanical Dimensions

Overview User Monitor Interface

H = 60 W = 45 D = 30 cm



Bargraph and digital value



Trend and digital value



Calibration procedure



Other Version of Biogas Analyzers

- Rack Mount Biogas analyzer version model MCA100BIO
- Portable Biogas analyzer model 3200 P

www.analisi-biogas.com
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