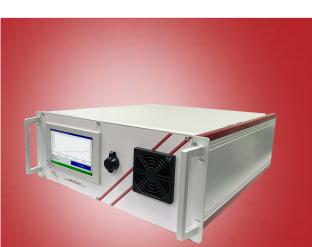
Discover

ETG MCA 100 BIO

multicomponent gas analyzer for Biogas



O₂, CO₂, CH₄, H₂ S MONITORING

Suitable for applications:

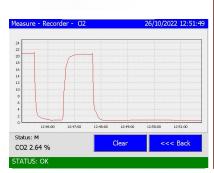
- Biogas Plants
- Research Center
- Water Treatment Plant
- Biogas System Integrator
- Biomethane Upgrading

The ETG MCA 100 Bio series of gas analyzers by ETG are the ideal solution for Biogas/Biomethane updgrading measurement because of their accuracy, stability, reliability, broad measurement range, and the variety of available form factors. Unlike other analyzers, ETG MCA 100 Bio nondispersive infrared (NDIR) gas analyzers measure multiple gases in an instrument with a single optical path platform. ETG analyzers have the ability to measure CO_2 , H_2S and O_2 in addition to methane, and therefore provide the optimal combination of gases measurement for Biogas/Biomethane plants. We can measure H₂S by NDUV technology that is maintenance free and doesn't need Electrochemical cells replacement.

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 the instruments.

USER INTERFACE OVERVIEW

ETG Biogas	Rev 2.0.0.1	11/03/2021 16:46:33		
Measures	Instrument	Control	Calibration	
CH4	0.00%	CO2	0.00%	
O2	20.76%	H2S	2 _{ppm}	
		Temp	30.30∘	
CV	0.0мэ/мтз			
T. Cell.	25.5 ∘c	Press.	0.030 psi	
STATUS: OK				



- Data downloadable on USB Pen Drive
- Arm processor
- Touch Screen monitor
- Ethernet, Wi-Fi and USB Remoting
- Low cost of ownership
- Modbus, Profibus, Ethernet (optional)
- Plug & Play
- Customizable



SPECIFICATIONS

- NDIR (for CO₂ and CH₄) & ECD (for H₂S, O₂) technology
 N₂ and calorific value calculated by proprietary algorithm (standard)
- Dust filter front panelCondensate Removal System

- Multipoint Sampling system
- Highly modular & High performance
- Totally developed in Italy

Response Time	Response time are specified at a sample flow rate of 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 full performance			
Operating Temperature	0° to 50° C			
Operating Humidity	To 95% RH (Non-condensing)			
Operating Altitude	-300 to 3.000 m (-1.000 to 10.000 ft)			
Calibration	Zero & Span user selectable			
Power consumption	30 W			
Communications	USB port (standard) - ETHERNET (standard)			
External Electrical Supply	from 100 to 240 Vac 47-63 Hz (upon request)			
Display	Touch Screen 5.7" Resistive Type			
Pneumatic Connection	Rapid fittings 6.0 OD 4.0 ID			
Rack Dimensions & Weight	19" x 4hE x 550 mm - 11 Kg			

TECHNICAL DATA

	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
า	NDIR (Non- Dispersive Infrared)	Carbon Dioxide	0,01%	0-100%	+/-1% F.S.	+/-1% F.S.	T ₉₀ &T ₁₀ < 10 seconds
	Electrochemical sensor	Oxygen	0,1%	0-25%	+/-2% F.S.	+/-2% F.S.	<30 seconds from ambient to 0.15 O ₂
	Electrochemical Sensor	Hydrogen Sulphide	0,1 ppm	0-100 ppm 0-200/1000 ppm 2000/5000/ 10000 ppm	+/-2% F.S.	+/-2% F.S.	T ₉₀ &T ₁₀ < 20 seconds

*other ranges on request