

MCA 100 BIO Portable

MULTICOMPONENT ANALYZER FOR **BIOGAS**



- Analysis of CO₂, CH₄, O₂, H₂S, NH₃, H₂
- NDIR technology for CO₂ and CH₄
- Process Pressure and Flow measurement by probe
- Touch Screen monitor
- Ethernet, Wi-fi and USB Remoting
- Low cost ownership
- Portable version with battery pack
- Data downloadable on USB Pen Drive
- Dust Filter front panel
- Calorific value data

The MCA 100 Bio series 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 MCA 100 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%	± 1% rel		
			80-100%	± 1% rel		
NDIR (Non-Dispersive Infrared)	Carbon Dioxide	0,01%	0-100%	± 0,8 F.S.	± 0,7%	T ₉₀ & T ₁₀ <10 seconds
			0.00-16.00%	± 0,3% abs or ± 3.0% rel		
Electro-chemical sensor	Oxygen	0,01%	0.00-25.00%	± 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	0-500 ppm	± 5 ppm abs or ± 3.0% rel	± 5 ppm abs or ± 3.0% rel	T ₉₀ & T ₁₀ <20 seconds
			0-2000 ppm			
			0-5000 ppm			
			0-10,000ppm			

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	0° 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	USB port (standard)
Case Protection	IP67(1 meter submersion for 30 minutes) • Def Stan 81-41/STANAG 4280

MCA 100 BIO Portable *MULTICOMPONENT ANALYZER FOR BIOGAS*

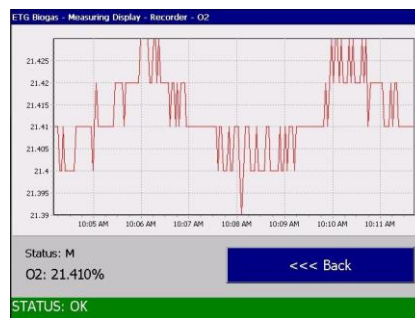
Battery	12 Vcc with Internal Charger and light charge indicator
Monitor	Touch Screen 5.7" Resistive type
Calibration	Zero & span user selectable. Automatic calibration (optional)
External Electrical supply	from 100 to 240 Vac 47-63 Hz
Pneumatic connection	Rapid fittings 6.0 OD 4.0 ID
Options	Humidity sensor, N2 calculation , Flow measurement , H2 measure
Weight	2.5 Kg

USER INTERFACE OVERVIEW

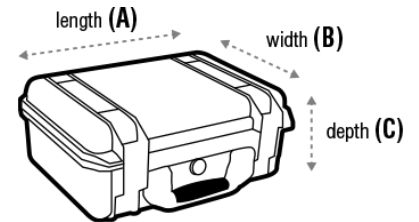
Compounds digital value



Trend and digital value



Length (mm) : 339
Width (mm) : 295
Depth (mm) : 152



All the ETG MCA 100 and 6500 series for Biogas have Remote Support and Remote Access

- File transfer
- Data monitoring by your PC , tablet and smartphone
- Software update

Other Version of Biogas Analyzers

- Wall mounting Biogas analyzer version model 6500
- 19" Rack Mounting Biogas analyzer model MCA 100 Bio
- Multisampling system for Biogas analysis

Rev. 3.0 - 2018

www.analisi-biogas.com
www.etgrisorse.com

DASTEC S.R.L.

Representantes / Distribuidores Exclusivos

Argentina

Tel: (+54 11) 5352 2500

Email: info@dastecsr.com.ar

Web: www.dastecsr.com.ar