

MCA 100 Syn 3 Portable

MULTICOMPONENT ANALYZER FOR **SynGAS**



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| <ul style="list-style-type: none"> • Analysis CO₂, CH₄, CO, O₂, H₂, • NDIR technology for CO₂ CO and CH₄ • TCD for H₂ • Arm Processor • Touch Screen monitor • Ethernet, Wi-fi and USB Remoting • N₂ and Heat value calculate by proprietary algorithm (standard) | <ul style="list-style-type: none"> • Low cost ownership • Portable version with battery pack • Modbus, Profibus, Ethernet (optional) • Data downloadable on USB Pen Drive • Cross sensitivity compensation • Sample conditioning system (optional) • Additional C_nH_m measuring by NDIR detector (optional) |
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The MCA 100 SYN 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 SYN MULTICOMPONENT ANALYZER FOR SYNGAS

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		
NDIR (Non-Dispersive Infrared)	Carbon Dioxide	0,01%	0-50%	+/- 0,8 F.S.	+/-0,7%	T ₉₀ & T ₁₀ <10 seconds
	Carbon Monoxide	0,01%	0.00-16.00%	+/- 0,3% abs or +/- 3.0% 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
Thermoconductibility	Hydrogen	0,1 %	0-10 % 0-20% 0 - 50% 0-100 %	+/- 0.5% abs or +/- 3.0% rel	+/- 0.5 abs or +/- 3.0% rel	T ₉₀ & T ₁₀ <20 seconds

SPECIFICATIONS

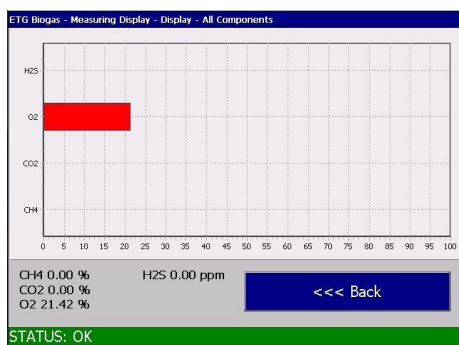
Response Time	Response times are specified at a sample flow rate of a 1 liter per minute through the MCA 100 sample cell
Data Refresh Rate	1 second
Warm-up Time	30 seconds ready, 3 minutes useable, 30 minutes to full performance
Operating Temperature	0° to 70° C (32° to 158° F)
Operating Humidity	To 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 SYN Portable *MULTICOMPONENT ANALYZER FOR SYNGAS*

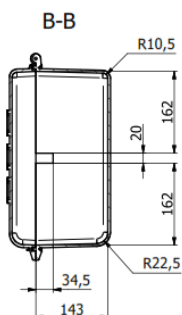
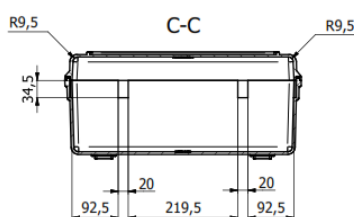
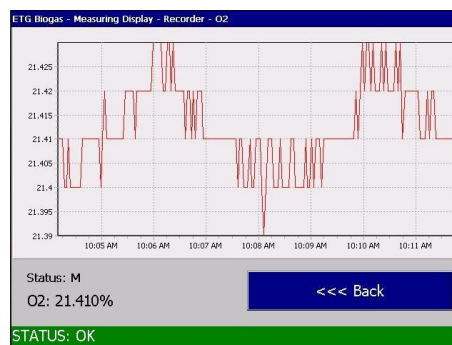
Battery	12 – 24 Vcc with Internal Charger and light charge indicator
Monitor	Touch Screen 5.7" Resistive type
Calibration	Zero & span user selectable.
External Electrical supply	from 100 to 240 Vac 47-63 Hz
Pneumatic connection	Rapid fittings 6.0 OD 4.0 ID
Mechanical dimensions	50 x 28 x 40 cm
Weight	7.5 kg

USER INTERFACE OVERVIEW

Bargraph and digital value



Trend and digital value



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

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



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

Other Version of gas Analyzers

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

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