

MCA 100 Syn 2 Portable

MULTICOMPONENT ANALYZER FOR SynGAS





- Analysis CO₂, CH₄, CO, O₂, H₂,C_nH_m
- NDIR technology for CO₂ CO and CH₄
- TCD for H₂
- Arm Processor
- Touch Screen monitor
- Ethernet, Wi-fi and USB Remoting
- C_nH_m calculate by proprietary algorithm (standard)

Low cost ownership

- Portable version with battery pack
- Modbus, Profibus, Ethernet (optional)
- Data downloadable on USB Pen Drive
- Calorific Value and remaining N2
- Sample conditioning system (optional)
- C_nH_m measured by Fabry Perot detector (optional)

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	Resoluti on	Range	Accuracy	Precision	Time
NDIR (Non- Dispersive Infrared)	Methane	0,01%	0-100% 201ppm-40% 40-80% 80-100%	+/- 1% F.S. +/- 2% rel +/- 1% rel +/- 5% rel	+/- 0,8%	T ₉₀ & T ₁₀ <10 seconds
NDIR (Non- Dispersive Infrared)	Carbon Dioxide Carbon Monoxide	0,01%	0-50% 0.00-16.00% 0.01-20.00% (up to 40%)	+/- 0,8 F.S. +/- 0,3% abs or +/- 3.0% rel +/- 5% rel	+/-0,7% +/- 0,1% abs or +/- 0.8% rel	T ₉₀ & T ₁₀ <10 seconds
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 O2
Thermoconduc ibility	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

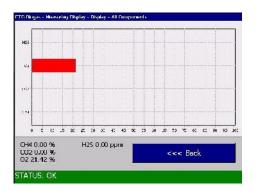
Response Time	Response times are specified at a sample flow rate of a 1 liter per minute through the MCA 100 sample cell		
Data Refresh Rate	1 second		
Warm-up Time	30 seconds ready, 3 minutes useable, 30 minutes to full performance		
Operating Temperature	0° to 70° C (32° to 158° F)		
Operating Humidity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

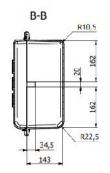
Battery	12 – 24 Vcc with Internal Charger and light charge indicator		
Monitor	Touch Screen 5.7" Resistive type		
Calibration	Zero & span user selectable. Automatic calibration (optional)		
External Electrical supply	from 100 to 240 Vac 47-63 Hz		
Pneumatic connection	Rapid fittings 6.0 OD 4.0 ID		
Mechanical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

USER INTERFACE OVERVIEW

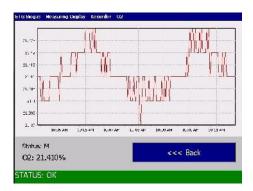
Bargraph and digital value



R9,5 C-C R9,5



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

ETG RISORSE E TECNOLOGIA

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