

The ETG MCA 100 SYN-P is the ideal solution for portable gas analysis and is specially designed for use in Syngas Plants.

Description

The **ETG MCA 100 SYN-P** is a complete portable solution to meet the requirement of measuring gases in a Syngas plant. It's designed for ease of use, simplicity of maintenance, and the ultimate in reliability.

The ETG MCA 100 SYN-P analyzer monitors, **simultaneously and in real-time**, the main compounds of Syngas. For the analysis of **Methane** (CH₄), **Carbon Dioxide** (CO₂), and **Carbon Monoxide** (CO), the infrared measurement technique (**NDIR**) is used. **Oxygen** (O₂) measurement is carried out using an electrochemical sensor (**ECD**), and the principle of thermal conductivity (**TCD**) is used to analyze Hydrogen (H₂). All these unique technologies allow **precise and reliable measurements of each gas**.

Additional filters have been installed near the sensors to protect the sophisticated analysis technology from the Syngas impurities. If the gas to be analyzed is particularly hot, humid and/or contains a high percentage of tar, the portable ETG PSS (Portable Sampling System) can be paired with the ETG MCA 100 SYN-P.

The advanced optics and electronics of the ETG MCA 100 SYN-P NDIR analyzer virtually eliminate zero drift after the initial warm-up period. Temperature and pressure compensation eliminate the main causes of calibration drift typical of many NDIR instruments.

The Syngas portable probe is designed to measure temperature and pressure and is fitted with an inline filter.

Features and Benefits:

- > Measurement of CO₂, CO, CH₄, O₂, & H₂
- > Simple User Calibration
- > Intelligent Processor with Touch Screen Monitor for Control
- > Data downloadable on USB Flash Drive
- > Low maintenance – high reliability



MONITORING SOLUTIONS

Complete source for all your Continuous Emissions Monitoring (CEMS) needs:

- > Both Dilution and Extraction CEMS systems
- > Data Acquisition Systems (DAS)
- > Flow Monitoring
- > Opacity Monitoring
- > Oxygen Monitoring Systems
- > Particulate (PM) Monitoring
- > Process Monitoring Systems

Gas	Measurement Method	Resolution	Range	Accuracy	Precision	Time
Methane (CH ₄)	NDIR	0.01%	0-100% 201 ppm-40% 40-80% 80-100%	±1% F.S. ±2% rel. ±1% rel. ±5% rel.	±0.8%	T ₉₀ & T ₁₀ <10s
Carbon Dioxide (CO ₂)	NDIR	0.01%	0-50% 0.0-16.0% 16-20%	±0.8% F.S ±0.3% abs. or rel. ±5% rel.	±0.7% ±0.1% abs. or ±0.8% rel.	T ₉₀ & T ₁₀ <10s
Carbon Monoxide (CO)	NDIR	0.01%	0.01-20.00% (up to 40%)	±5% rel.		
Oxygen (O ₂)	Electrochemical	0.01%	1.01-25.00%	±0.1% abs. or ±3.0% rel.	±0.1% abs. or ±1.5% rel.	<40s from ambient to 0.15% O ₂
Hydrogen (H ₂)	Thermal Conductibility	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 <20s

SPECIFICATIONS

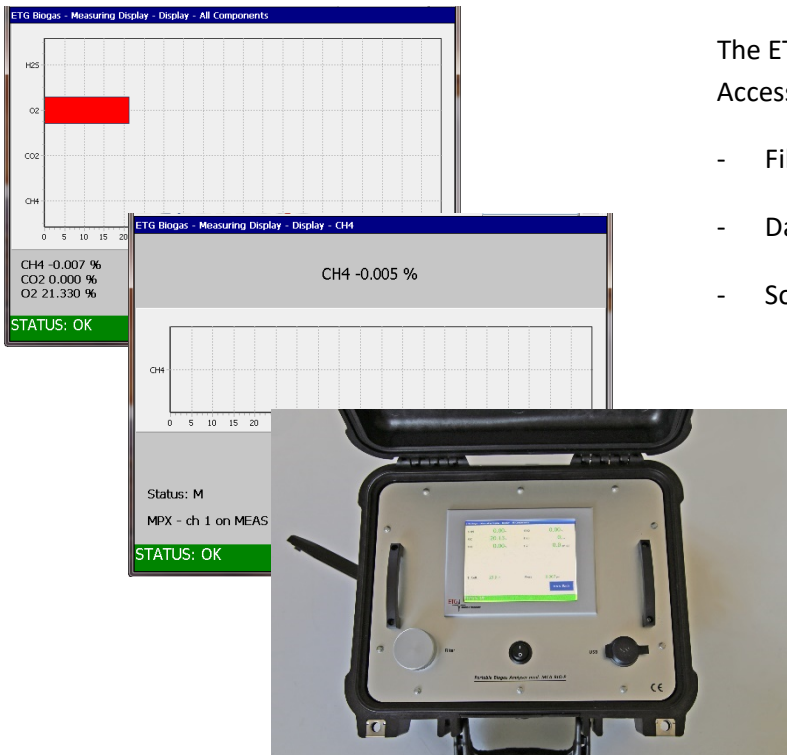
Response Time	Specified at a sample flow rate of 1 lpm through the MCA sample cell
Data Refresh Rate	1 sec.
Warm-up Time	30 sec. ready, 3 min. useable, 30 min. to full performance
Operating Temp.	0°C to 70°C (32° to 158° F)
Operating Humidity	To 95% RH (non-condensing)
Operating Altitude	-1 to 10,000 ft.
Communications	USB Port (Standard)

CONTACT

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 sales@monsol.com

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Case Protection	IP67 (1m submersion for 30 minutes), Def stan 81-41/STANAG 4280
Battery	12 -24 VDC 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 x 4.0 ID
Mechanical Dimensions	50 cm x 28 cm x 40 cm
Weight	7.5 kg



The ETG MCA 100 SYN-P has Remote Support and Remote Access with:

- File Transfer
- Data Monitoring by your PC, Tablet or Smartphone
- Software Upgrades

Display includes Bar
Graphs, Trending, and
Digital Display.

CONTACT

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