



ETG 6500/6500 TOP/6500 SYN

Fixed Biogas, Syngas and Biomethane Analyzer

The ETG 6500 is the ideal solution for continuous gas analysis in Biogas Plants, Syngas Plants, Biomethane plants, and Landfills.

Description

The **ETG 6500** is a complete solution to meet the requirement of measuring gases in biogas, syngas and biomethane plants and landfills. It is capable of measuring multiple points and a wide array of gases. It's designed for ease of use, simplicity of maintenance, and the ultimate in reliability.

Unlike other analyzers, the ETG 6500 utilizes non-dispersive infrared (NDIR) technology to measure multiple gases with a single optical path. When measuring methane as a biofuel, single-gas analyzers are inadequate due to interference from large amounts of CO present. The ETG 6500 measures CO₂, CO and O₂ in addition to methane thereby providing the optimal combination of gases for combustion optimization.

The advanced optics and electronics of the ETG 6500 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 6500 TOP is specifically designed for wet Biogas sample streams to include a condensate reduction system (via liquid stop + peristaltic pump). The 6500 SYN is designed to include Hydrogen measurement.

Features and Benefits:

- > Measurement of CO₂, CH₄, CO, O₂, H₂, & H₂S
- > Able to measure multiple points with a single system
- > Built-in automatic air purge for extending life of H₂S cell
- > Intelligent Processor with Touch Screen Monitor for Control
- > Multiple Outputs including Analog, Digital, Ethernet, Profibus and Modbus
- > Low maintenance – requires infrequent checks (weekly and monthly)



Complete System configured with Process Connection, Sample Line & Analyzer



APPLICATIONS

- > Biogas Plants
- > Landfill Plants
- > Syngas Plants
- > Biomethane
- > Upstream and downstream of treatment systems

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) 6500 SYN	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
Hydrogen Sulfide (H ₂ S) – 6500 TOP	Electrochemical	1 ppm	0-2,000 ppm 0-5,000 ppm	±5ppm abs. or ±3.0% rel.	±5ppm abs. or ±3.0% rel.	T ₉₀ & T ₁₀ <20s

SPECIFICATIONS

Response Time	Specified at a sample flow rate of 1 lpm through ETG 6500 SYN 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 1,000 ft.
Communications	USB Port (Standard)
Case Protection	IP20

CONTACT

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