



ETG 6900 P

Portable NDIR Analyzer (CO₂ or N₂O)

The ETG 6900 P is a Non-dispersive Infrared (NDIR) based portable analyzer designed to measure the toughest gases accurately and reliably in a large variety of applications.

Description

The **ETG 6900 P CO₂ & N₂O** (Carbon Dioxide & Nitrous Oxide) was specially developed for high-quality NDIR gas analysis. It was created with special emphasis on high stability and low detection limits with the use of high-performance light emitting diodes (IR-LED) and thermal micro radiators. In the spectral range from to 2-12 microns, either gas can be reliably detected down in the ppm range with this new sensor platform.

The ETG 6900 P presents a clear alternative to current sub-optimal detection solutions and combines precise, contact-less measurements with high target gas selectivity, calibration-free operation, and low-cost-of-ownership.

Features and Benefits:

- > Very fast detection (T₉₀ in 3 sec.) with innovative NDIR technology
- > Internal sample pump
- > Complete system in robust case
- > Zero & Span calibration
- > Demountable cell construction
- > Low cost-of-ownership
- > Touch screen monitor
- > Ethernet and USB Remoting
- > Digital and Analog I/O, Modbus, Profibus, Ethernet outputs
- > Low maintenance – high reliability
- > Includes sample line and sample probe

All-in One Portable Sample Probe and Line

- > Built-in, heated filter element
- > Sample conditioning system (option)
- > Robust hose line
- > Tool-less filter element change
- > Dust load max. 2 g/m³
- > PTFE core DN 4/6
- > Material Silicone, PTFE, stainless steel, polyamide



APPLICATIONS

- > Research
- > Environmental Measurement
- > Process Measurement

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	CO ₂	N ₂ O
Measurement Technology	Non-dispersive Infrared (NDIR)	
Measuring Range	0-50/100/500/1000/2000/5000 ppm 0-1/5/10/30/100 %	0-500/1000/2000/5000 ppm 0-1/5/10/30/100 %
Accuracy	±2% full scale depending on integration stability (temp. & pressure)	
Precision	0.8 ppm	
Measurement Type	Dry Extractive	
Operating Temp.	5-50°C	
Zero Drift over 2 hours	Within accuracy	
Span Drift over 8 Hours	Within accuracy	
Max. Error on Temperature Compensation	<0.1% of reading/°C	
Cross Talk/Interference	Gas Matrix & Application Dependent	
Displayed Resolution	0.1 ppm	
Warm-up Time	1-3 minutes	
Refresh Rate	1s to 120s	
Detection Limit	<1% of span	
Radiation Source Life	>20,000 hours	
Ambient Temperature Compensation	-10 to 65 °C	
Measured Gas Max. Humidity	Abs. H ₂ O needs calibration	
Probe Material	Stainless Steel (or Inconel Option)	
Electrical Supply	110 VAC/ 60 Hz	

CONTACT

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ETG 6900 P

Portable TDL Analyzer (CH₄, HCl, or NH₃)

Specifications (cont.)

Case Dimensions	50 cm x 28 cm x 40 cm
Weight	~16 lbs.
Pneumatic Connections	Swagelok 6 mm OD
Sample Pump	Internal
Heated Hose	3 or 5 meter length - 180°C Thermo-controlled



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