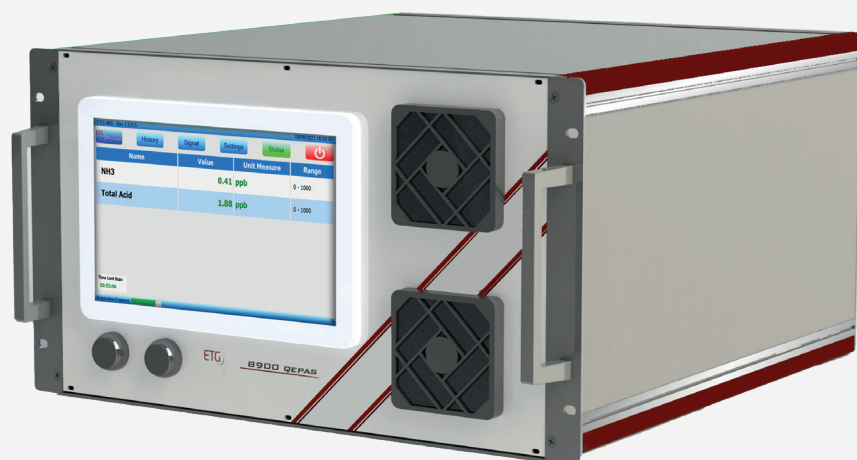


The power of PAS technology at
your fingertips.

ETG 8900 QE-PAS, the ultimate gas analysis solution that fits every industry



N₂O - NO - CO - CO₂ - NH₃ - NO₂ - CH₄
MONITORING



ETG 8900 P



ETG 8900 WM

VERSATILE

PAS technology is perfect for many different industries. From identifying toxic gases to the monitoring of organic compounds in production plants, laboratories, and hospitals. Thanks to its high resolution, the ETG QE-PAS unlocks its full potential in process control such as fermentation monitoring or pure gas production.

THREE FORMATS

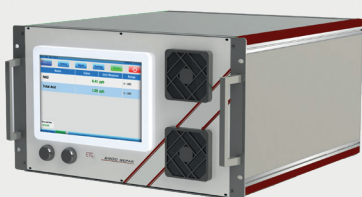
Our innovative analyzers utilize **Quartz Enhanced PhotoAcoustic Spectroscopy (QEPAS)** technology for accurate trace gas analysis. By selectively exciting desired molecules, interference from other compounds is eliminated. **ETG 8900 QEPAS** is available in **rack** and **portable** configurations, customizable based on specific requirements. With our expertise, we perform personalized simulations to choose optimal frequencies for clean, interference-free signals. ETG Risorse e Tecnologia offers a simple, reliable, and robust solution for trace gas analysis. Whether for compliance monitoring or research and development, our analyzers deliver effective results. Experience precise and reliable trace gas analysis with the ETG 8900 QEPAS series.

RELIABLE

Photoacoustic Spectroscopy (PAS) provides greater sensitivity than conventional spectroscopic techniques. ETG QE-PAS utilises a laser as a light source, eliminating interferences. Precise measurements are possible in the ppb range and even ppt, implementing algorithms to the raw signal.

USER FRIENDLY

We know how important it is to have a tool that is easy to use, intuitive and quick to learn. ETG Risorse e Tecnologia equips its analysers with a touchscreen monitor and an intuitive interface. All you need is a finger to access all its functions. ETG QE-PAS can be accessed remotely worldwide.



Suitable applications

- * Industrial Emission Monitoring
- * Co2 Quality Control
- * Gas purity analysis
- * GHG emissions

and more...

SPECIFICATIONS

| | ETG 8900 19" | ETG 8900 P | ETG 8900 WM |
|----------------------------|--|--------------------------------|--------------------------|
| Enclosure | 19" Rack | Rugged Case | AISI 304 stainless steel |
| Display | 10.1" touchscreen | External (remotely controlled) | 7" touchscreen |
| Dimensions (L x W x D) | 19" x 6hE x 550 mm | 625 x 500 x 297 mm | 600 x 800 x 300 mm |
| Weight | 16kg | 14kg | 40 kg |
| Analyzer Power Consumption | 100W(max) - 70W(typ) | 90W (max) - 60W(typ) | 300W (max) - 200W (typ) |
| Sample Pump | Optional | Included | Included |
| IP Class | N/A | IP54 (optional) | IP55 |
| Power Supply | 230/115 V 50/60Hz | | |
| Connections | USB, Ethernet | | |
| Pneumatic connections | Swagelock 6 mm O.D. | | |
| Communication | 4-20mA (standard), Other industrial protocols (optional) | | |
| Certification | CE | | |

| Name | Value | Unit Measure | Range |
|------|--------|--------------|------------|
| H2O | 0.379 | % | 0 - 5 |
| CH4 | 4.400 | ppm | 0 - 1000 |
| N2O | 1047.5 | ppb | 0 - 100000 |
| CO2 | 5.10 | ppm | 0 - 10000 |

Time Last Scan: 14:22:39 | Peltier Volt 1: 16.617 V

Acquisition Progress: IDLE

User Interface Overview

ANALYSIS PERFORMANCES

| | | | |
|-----------------------------|---|-----------|------------|
| Measurement Technique | Quartz Enhanced Photoacoustic Spectroscopy (QEPAS) using TDL, ICL or QCL lasers | | |
| Measurable Gases and Vapors | CH ₄ , NO ₂ , CO ₂ , N ₂ O, CO, NO, NH ₃ (depending on chosen configuration) | | |
| Gases Specifications | Gas | LDL (ppb) | Range |
| | NO | 75 | 0-250 ppm |
| | NO ₂ (ICL) | 250 | 0-1000 ppm |
| | NO ₂ (QCL) | 10 | 0-40 ppm |
| | CO | 250 | 0-1500 ppm |
| | CO ₂ | 450 | 0-1500 ppm |
| | N ₂ O | 100 | 0-650 ppm |
| | CH ₄ | 20 | 0-100 ppm |

SAMPLING PARAMETERS

| | |
|-------------------------|---|
| Sample Temperature | Ambient or depending on application |
| Sample Flow | 80-120 cc/min |
| Sample Pressure | Ambient (automatically regulated by analyzer) |
| Sample Gas Requirements | Moisture below ambient temp. saturation Dust max 0.1 g/Nm ³ |
| Sampling Points | Optional, up to 30 sampling points automatically managed |

PERFORMANCE SPECIFICATIONS

| | |
|---------------|------------|
| Warm-up Time | < 5 min |
| Repeatability | < 1 % F.S. |
| Linearity | < 2 % F.S. |
| Drift | < 1 % F.S. |