

**Limitless gas analysis withstanding  
any industrial process.**

# ETG 9500, the new standard of FTIR technology that faces any threat



## Multicomponent gas analysis

FOR

CEMS, air pollution, engine emissions, food processing, Biogas & Syngas, petro-chemistry, work safety, fire fighting, food processing, cement kilns, mining, aerospace and many more.

**ETG**

*Risorse e Tecnologia*

Products for every analysis need

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# FROM MINING TO AEROSPACE. PERFECT FOR EVERY CHALLENGE.

## SYSTEM SPECIFICATIONS

- Permanently aligned
- Maintenance free
- Position independent
- ProfiNet (bidirectional)
- ProfiBus (bidirectional)
- 10 inch touch screen
- Windows 10 OS
- Power: 50 [W] - 50/60 [Hz]
- Storage\*\*: -10 / +60 [°C]
- Interfaces: 2 USB - 1 LAN
- Broadband SiC 1550K (source)
- Stabilized solid-state laser
- Suppression of H<sub>2</sub>O and CO<sub>2</sub>
- Beamsplitter-windows in **ZnSe**
- Detector in **MCT** (4-TE coated)
- Resolution: **4,2 - 0,5** [cm<sup>-1</sup>]
- Spectrum: **5000 - 830** [cm<sup>-1</sup>]
- Scan frequency: **1** [s<sup>-1</sup>]
- Signal-noise ratio: > **5.000:1**
- D\*: > **2,5x10<sup>9</sup>** [cm(Hz)<sup>-1/2</sup> (W)<sup>-1</sup>]

## MOLECULES RANGE:

- H<sub>2</sub>O: 0 - 30 Vol.%
- CO: 0 - 10000 ppm
- CO: 0 - 10000 ppm
- CO<sub>2</sub>: 0 - 20 Vol.%
- HCHO: 0 - 50 ppm
- HCl: 0 - 30 ppm
- HF: 0 - 30 ppm
- NH<sub>3</sub>: 0 - 1000 ppm
- NO: 0 - 1000 ppm
- N<sub>2</sub>O: 0 - 500 ppm
- NO<sub>x</sub>: 0 - 1000 ppm
- SO<sub>2</sub>: 0 -1000 ppm

## RUGGED

Forget about problems and expensive maintenance. The ETG 9500 is the most flexible and cost-effective solution for FTIR analysis. We have developed a spectrometer with the best materials, resulting in a high signal, low noise and long lifetime of its components. Its simple interface and practical functions make it the number one ally in industrial monitoring.

## HIGHLY-EFFICIENT

There is no limit to the potential of the ETG 9500. Thanks to the long path and small cell volume, we achieved excellent stability, high sensitivity and fast response time. ETG 9500 analyse the Infrared Spectrum in its entirety and at the same time, Adding new compounds is a straightforward and quick process.

## USER-FRIENDLY

The analyser has a large touchscreen. It allows numerous automated and convenient functions, such as separate data logs and customised alarms. The ETG 9500 can be remote-controlled over a LAN network and is compatible with most industrial communication protocols.

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# THREE FORMATS.

# MADE FOR WORKERS

## TRANSPORTABLE VERSION

Besides the standard 19" Rack format, which is perfect for integration into complex measurement systems or research laboratories, ETG Risorse e Tecnologia has developed **the transportable version of the ETG 9500 FTIR analyser**. Configurable to suit each customer's needs, it provides a small measurement and sampling system for every situation. Equipped with a **heated line** to prevent gas condensation, it becomes an invaluable ally in monitoring **VOCs, industrial emissions, filtering systems and siloxanes**. Its great flexibility allows unlimited analysis possibilities, which, combined with its ease of transport, makes it the ideal instrument for monitoring **greenhouse gases, anaesthetic gases** in operating theatres, leakage in **biogas and syngas** plants and many others.



## PORTABLE VERSION



Push the portability to the limit. The portable version ETG 9500 allows analysis where fixed instruments cannot reach. It is **fully battery-powered** and designed with the same technology as the other versions; it maintains the same quality in an even **smaller format**. Designed to be practical, it conduct **high-performance gas analysis** where safety is an essential factor. Whether checking **toxic gases in shipping containers** or for **monitoring fire smoke**, there is no scenario where the portable version of the ETG 9500 is not the ideal solution for **worker safety**.

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