

Enhanced Ion Mobility Spectrometer  
proper against delicate situations.

# ETG 4500 EIMS.

Meet the revolution  
in **IMS technology**  
for advanced  
industry



**$\text{NH}_3$  · HCl · HF · Total Acids VOC**

**ETG**

*Risorse e Tecnologia*

Products for every analysis need

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# ORION 3100 AND ETG HMI. A UNIQUE TOOL FOR SEMICONDUCTORS.

- 19" Rack mounting\*
- Utilities: dry compressed air
- Length max hose: 130 [mt]
- Dopant: depends on the setting
- Polarity: Positive/Negative
- Ionization: Positive/Negative
- Comms: LAN, ModBus, ProfiBus
- N° of sample: **1-16-30-45**
- Power: 110-230 VAC 50/60 [Hz]
- Resolving power: **40 - 80** FWHM
- Op. temperature: **5 - 45** [°C]
- Response time: **< 10** [seconds]
- Sample pressure: **0,6 - 1,1** [bar]
- Sample temp.: **30 - 120** [°C]
- Sample flow: **2 - 500** [ml/min]
- Ranges\*\*: **0 - 50 / 0 - 100** [ppb]
- Sensitivity: [ppt] - [ppb]
- Drift gas flow: **0,5 - 1,3** [ml/min]
- Drift gas quality: Clean Dry Air
- Drift velocity: **200 - 560** [V/cm]

\* Different for the transportable system

\*\* Adaptable to needs

## RELIABLE

Compact design, high sensitivity, fast response and ability to separate isomeric compounds; Ion mobility (IMS) is a powerful molecular analytical spectrometry technique based on ionic interactions in a homogeneous electric field that allows precise and reliable measurements in many industries, especially in where air quality is a crucial factor.

## ACCURATE

The ETG 4500 can easily distinguish HF from HCl by decreasing the shutter grid's pulse length. Besides, it's possible to enhance the sensitivity at the expense of resolution directly from the interface. ETG 4500 adapts to any situation where separate detection of HF and HCl is essential.

## FUNCTIONAL

No user required. The ETG 4500 can operate entirely autonomously, making maintenance quick and easy, especially when installed in a Cleanroom. It is compatible with most industrial communication protocols and can be installed in a mobile structure for easy transport.

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# MULTIPLE SCANS.

# SECURITY MADE EASY

## ORION 3100

The ORION 3100 is a **multi-point area monitoring system** that sequentially takes the sample and stores the concentration in a database. For each sampling point is possible to set **customised alarms and scan parameters** in one **user-friendly** interface. Besides, each analyser has an internal computer (Linux OS) that can store data virtually indefinitely on its hard disk and send **real-time data** to an external data logger. Like all our analysers, ETG 4500 has **remote access via the web**. Users and ETG's staff can operate on the analyser using a web browser from virtually anywhere Internet access is available. This remote access allows bios-level control and provides the opportunity to **obtain data and perform diagnoses without being on-site**.



## HUMAN MACHINE INTERFACE

Every complex system needs a **simple interface**. The ETG HMI (Human Machine Interface) software allows **real-time visualisation, manipulation** and **automation** of the entire analysis system. Our software engineers developed a tool that simplifies continuous environmental monitoring in **up to 45 different locations** in any industrial process, especially useful in semiconductor production plants. Features include interactive **alarm set-up, data logging, historical trending** and essential analyser functions from a Windows environment.



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