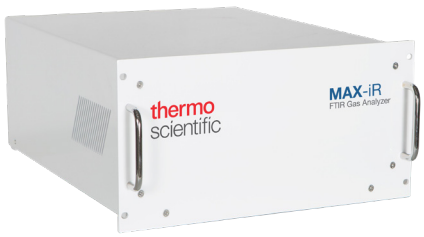
Global Analyser Solutions





MAX-iR

FTIR Gas Analyser

Achieve single digit ppb to ppt detection limits while maintaining all of the benefits of real-time FTIR

Get ready for ***tomorrow's analytics***

Find out more on www.gassite.com

MAX-iR FTIR Gas Analyser

Engineered to meet the most demanding standards for in-line process, product quality, gas purity/certification, continuous emissions monitoring, and ambient air monitoring

Thermo Scientific™ MAX-iR™ FTIR Gas Analyser allows users to achieve single digit ppb to 10's of ppt detection limits while maintaining all of the benefits of real-time FTIR analysis. This technology breakthrough, available only with the MAX-iR Analyser, eliminates the need for costly mass spectrometry (MS), gas chromatography (GC) or cavity ringdown spectroscopy (CRDS) solutions across a wide variety of applications. Let the MAX-iR analyser reinvent how you solve your most demanding process and environmental gas analysis needs.



Variety of configurations

The MAX-iR Gas Analyser is built around a small, rugged, high throughput interferometer with 24-bit analog to digital (ADC) integrated detector modules that allow for exceptional signal-to-noise without liquid nitrogen cooling. Longevity and reliability of the analyser has been increased using a long-life vertical cavity surface emitting laser (VCSEL) diode and sFilicon carbide (SiC) IR source. Integrated temperature and pressure sensors provide increased precision for the most demanding certification applications. Finally, dual-level vibrational dampening allows the analyser to operate even in challenging field environments. A deuterated triglycine sulfate (DTGS) detector comes standard with the MAX-iR Analyser. All systems include the Thermo Scientific™ MAX-Analytical STANDARD Software Suite providing industry-leading analytics, factory integration tools, high speed identification of compounds, and measurement accuracy/ stability without the need for calibration.

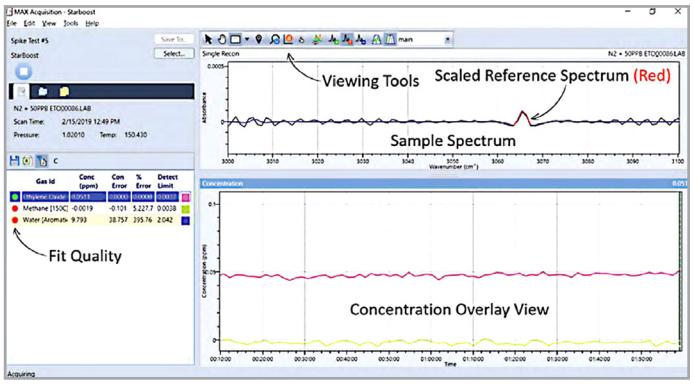


Features and benefits

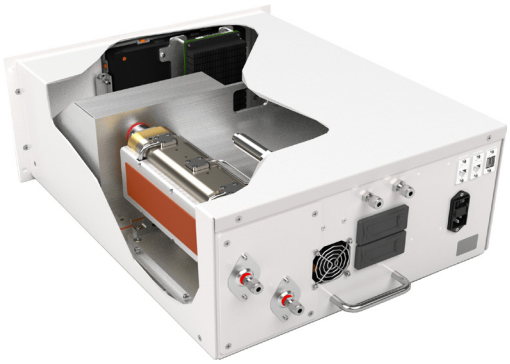
- **Real-time gas analysis (1 sec – 1 min response)**
- **1 – 32 cm-1 resolution FTIR spectrometer**
- **10 m high throughput multipass gas cell**
- **VCSEL diode (10-year lifetime)**
- **SiC IR source (10-year lifetime)**
- **Non-hygroscopic optics (no purge required)**
- **Precision temperature and pressure sensors**
- **5U – 19 inch standard rack**
- **DTGS detector**
- **Analysis methods (factory supplied)**

Typical applications

- **Inline process monitoring**
- **Gas purity analysis**
- **Gas certification analysis**
- **Continuous emissions monitoring (CEM)**
- **Ambient air testing**
- **Stationary source testing (RICE, turbines, cement kiln)**
- **Leak detection**



MAX-Acquisition STANDARD Software screen.



The back and inside of the MAX-iR FTIR gas analyser.

- Automated sample collection workflow

MAX-iR analyser specifications

- 48 x 61 x 22 cm rack mount
- 34 kg
- 120/240 VAC 50/60 Hz
- Integrated temperature & pressure sensors
- Industry-leading FTIR spectrometer
  - ZnSe optics
  - VCSEL diode laser
  - SiC IR source
- Detectror: DTGS
- Environmental humidity: 10-90% RH, non-condensing
- Environmental temperature: 20-30°C
- Operating temperature: 5-191°C
- Single 1/4" Swagelok™ input/ output
- N_2 purge port (usage optional)
- 10 m pathlength - 0.5L volume standard

MAX-Analytical STANDARD Software Suite

- FTIR configuration and control
- Real-time quantitative analysis
- Thermo Scientific™ ASC-10™ automated sampling console control
- Thermo Scientific™ MAX-OXT Thermal Oxidizer Module control
- Thermo Scientific™ MAX-INT Factory Interface Module
- Modbus™ TCP/IP communications

Optional Thermo Scientific™ MAX-Analytical Advanced Software Suite

With the Advanced Software package, users have access to all the features available in the STANDARD Software package with the addition of the MAX Gas Reference Editor. The MAX Gas Reference Editor is only available in the Advanced Software package and includes traceability documentation for all gases in the library, automatic baseline correction of reference spectra, ability to define primary and secondary quantification regions, and the ability for users to add their own calibrations to the spectra library.

Optional hardware

- Operating pressure: 1 or 5 atm
- Windows BaF_2, KBr, CaF_2, ZnSe

Accessories

- ASC-10 automated sampling console
- MAX-OXT thermal oxidizer module
- MAX-INT factory interface module

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Global Analyser Solutions provides GC & GC-MS solutions for Energy, Refinery, Chemical and Environmental markets. Our analysers address a broad spectrum of measuring requirements with high precision and reliability. Please reach out for more information on our website.