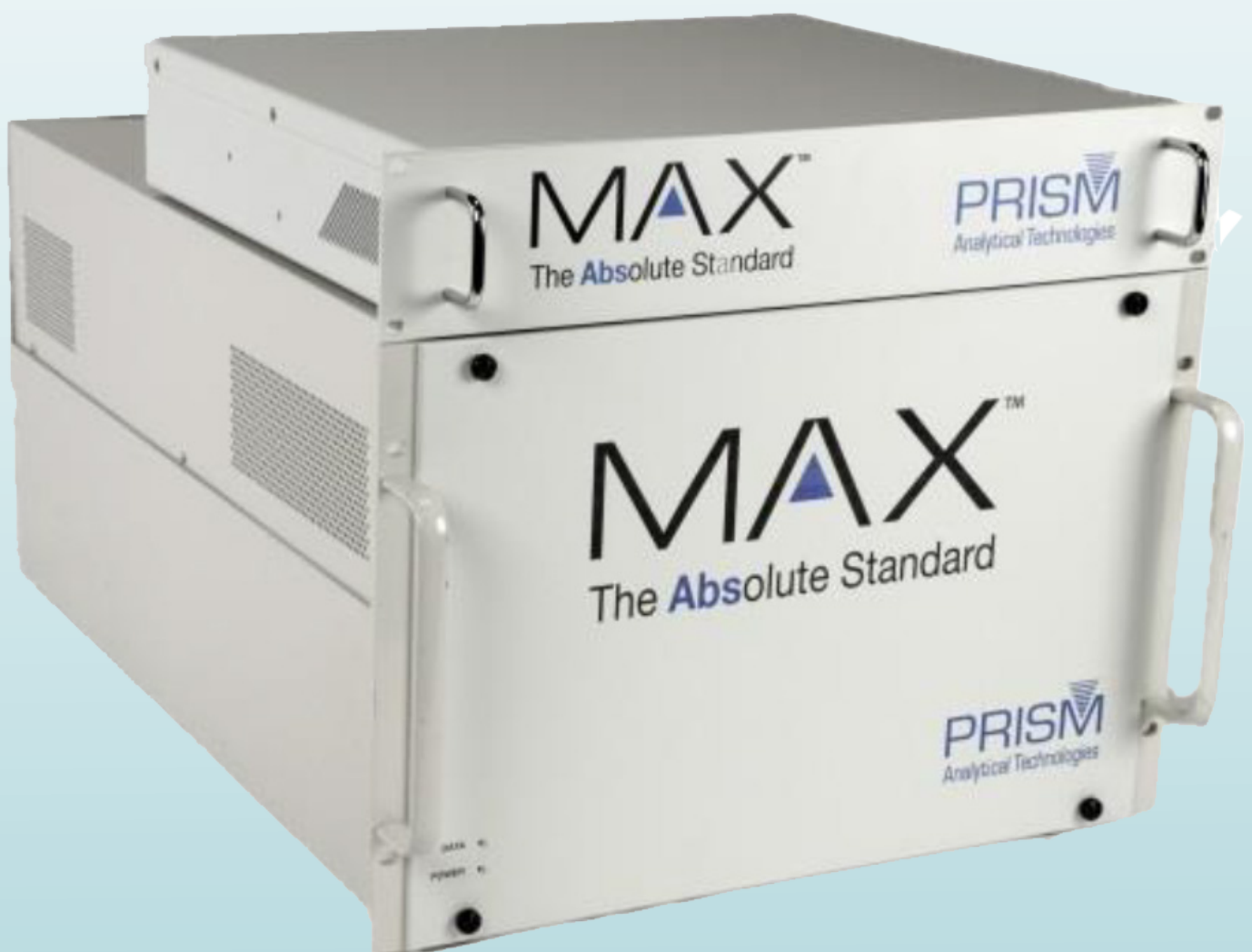




MAX

The Absolute Standard in Analytical Measurement





The **Absolute** Standard in Analytical Measurement

Prism Analytical Technologies is pleased to introduce MAX™. MAX™ is a new analyser that measures complex samples by combining the separation power of chromatography with the quantification power of absorption spectroscopy.

MAX™ is based on a patent pending technology wherein eluting gases are statically analysed in a multi-pass gas cell for increased sensitivity. Analytical algorithms allow for spectral time averaging to further increase sensitivity and producedetection limits in the ppt range. Also, since detection is based on absorption spectroscopy, fears of overloading or contaminating the detector are avoided giving MAX™ a very large dynamic range.

MAX™ is a robust, versatile, and extremely sensitive analyser capable of tackling the most demanding applications.

As Selective and Sensitive as GC/MS
Quantify 100s of compounds per analysis
Quantify co-eluting compounds
Speciates isomers & isotopes
Large dynamic range (9 orders of magnitude)
Parts per trillion (ppt) detection
Sensitivity from ng to mg
Never Calibrate Again
Calibrations factory supplied
Instrument-to-instrument transferable calibration
Chromatography does not affect the calibration
Quantitative and qualitative library
MAX™ Additional Advantages
No Turbo Pump
No Helium or hydrogen carrier gas (uses nitrogen)
1 Day installation with analysis same day
Low maintenance

Applications

- Source Testing
- Pesticides and Herbicides
- Petroleum Product Testing
- Digester/Landfill Gas Testing
- Process Monitoring
- Ambient Air Testing

MAX™ Operational Modes

FTIR Mode

0.5 cm⁻¹ MultiGas 2030™ FTIR Gas Analyser

- Performs U.S. EPA Method 320, ASTM D6348 and other EPA FTIR methods

- 1 – 8 L/min sample flow
- 1 scan per second
- LN2 16um MCT detector
- 5.11 m Multiple pass gas cell
- Operating at 191°C

FTIR calibration library in ppmv*m (191°C)

Single digit ppm MDLs for most compounds

GC/FTIR Mode

Miniature GC coupled to MultiGas (GC detector)

- Performs U.S. EPA Method 18

GC Specification

- 30m MTX 624
- 0.25 – 7 mL/min N2 flow
- 35 – 230 C self-heating column

FTIR Specification

- MultiGas 2030™ FTIR
- 4.0 cm⁻¹ resolution at 191°C

GC/FTIR calibration library in ng (191°C)

Single digit ppb MDLs for most compounds

MAX Software

Proprietary MAX software collects and analyses data for both direct FTIR analysis of GC/FTIR analysis. In direct FTIR Mode the software collects the FTIR data continuously (1 second to 1 minute averages) and analyses the FTIR spectral data in a continuous analysis for real-time reporting.

In the GC/FTIR Mode the software automatically desorbs the external Thermal Desorption Tubes (TDTs), operates the gas chromatograph (GC), collects the FTIR spectral data (1 – 2 sec averages), analyses the spectral data versus the quantitative spectral data base and reports the ng (or ng/L) of each compound (selected compounds requested) found in the sample.

MAX Accessories *(See additional Product Specification Sheets)*

- U.S. EPA Method 18 TDT Sampler
- Prism TDT Desorber
- Continuous TDT Sampler/Desorber
- CDS TDT Autosampler (for continuous TDT analysis)
- ¼" diameter 4.5" length SS TDTs (numerous sorbent options available from Prism)

Additional Product Specifications

- Ethernet communication between computer and MAX™ analyser
- High Purity Nitrogen source 40 PSI
- 100 – 240 VAC 50/60 Hz
- 750 Watts maximum power



MAX™ is trademark of Prism Analytical Technologies, Inc. Mt Pleasant, MI.
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