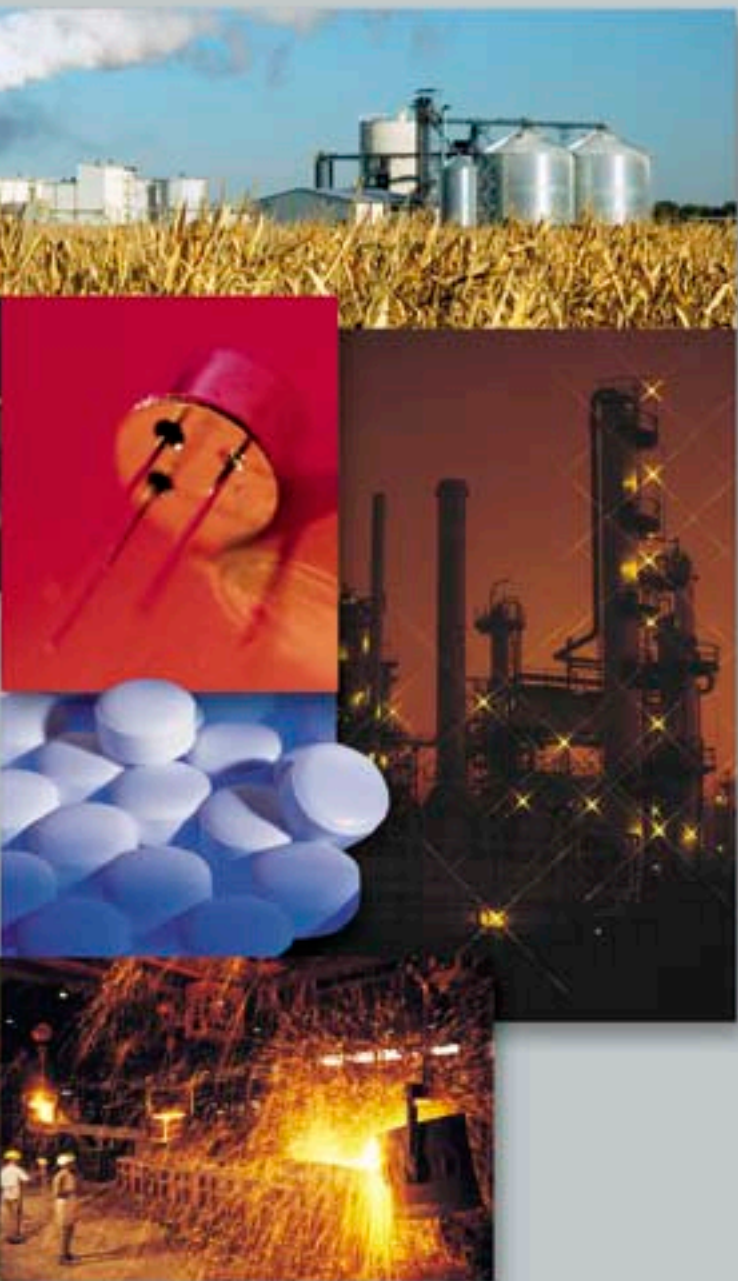


Extrel CMS

MAX300-IG

Industrial Gas Analyzer



The Extrel® MAX300-IG™ Industrial Gas Analyzer represents the latest in mass spectrometer and data system technology. This seventh generation on-line process mass spectrometer was designed to meet the analysis needs of customers worldwide.

Reliability

The MAX300-IG has been designed for reliable, continuous analysis in humid, hot, and tough industrial environments, including hazardous locations.

Demonstrated uptime of greater than 98% ensures that our customers realize the benefits of fast on-line analysis and process optimization.

Continuous background diagnostics alert the user of analyzer issues, and action is taken to maximize the quality of the data being delivered. Speed, sensitivity, stability, and precision are the four cornerstones of successful process optimization and the means for maximizing ROI (Return on Investment). The MAX300-IG delivers all four with great performance.

Performance

Speed. The MAX300-IG offers a typical analysis time of less than 400ms per component with the capability to analyze an unlimited number of components and sample streams. The analysis time can be longer or shorter, depending on the process requirements.

Sensitivity. Detection ranges are 100% to 10 ppm (parts per million) using a Faraday Detector or 100% to 10 ppb (parts per billion) using the optional Dual Faraday/Electron Multiplier detector.

Stability. The MAX300-IG has a 30 day stability of 0.5% RSD (Relative Standard Deviation), based on a 1% Argon concentration.

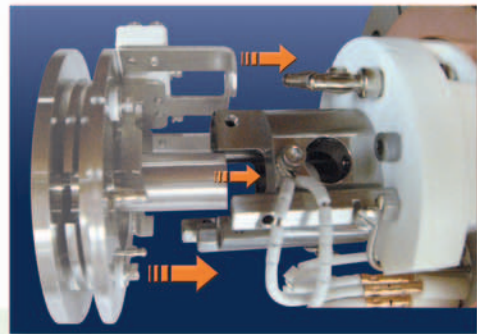
Precision. The MAX300-IG has a precision of +/- 0.0025 absolute, based on a 1% Argon concentration.



Maintainability

Our customers report that Extrel's process mass spectrometers have the lowest per analysis cost of ownership of any multicomponent analyzer, and the MAX300-IG is no exception. And, now we've added another innovative feature to reduce your maintenance time ... **A Disposable Dual-Filament Ionizer Assembly.**

The new disposable ionizer eliminates the need to clean the ionizer when replacing filaments, decreasing maintenance downtime. The ionizer assembly houses two filaments (one active and one spare) with automatic switch over and auto calibration.



Support

For over 40 years, Extrel has been building lasting relationships with our customers who have come to rely on this partnership. We have the most experienced and competent service and support personnel in the industry, and only employ factory-trained and certified personnel. We are committed to providing the highest quality support services for our +1,000 process and research instruments worldwide.

Extrel's service department is a key factor in ensuring the optimum performance and uptime for your system. We offer all of the support services you need. From the first application review, we are there to help you.

Our services include:

- Commissioning Service
- Customer Partnership Program
- Factory Repair Center
- Field Service
- Remote Support
- Service Maintenance Contracts
- Spare Parts and Accessories
- Technical Phone Support
- Training

Flexibility

The heart of the MAX300-IG system is the Questor®5 Data System. This software has been designed to provide secure access to your system and data, easy set-up, and automated operation. The Questor 5 user interface is a web-based application that gives the user access to all analyzer operations and data in a familiar web page format.

The user interface is accessed via Internet Explorer® 5.0 or higher. The connection to the analyzer can be directly from a workstation or from a plant network via a standard Ethernet or equivalent link. Built-in Security features allow our customers to meet government requirements for electronic records such as those defined in 21 CFR 11.

A Sequencer function allows the system to run automatically, controlling sample selection, automated calibrations, and analytical methods. Analyzer functions are triggered in a repeating loop, at a defined time, or in response to alarm conditions. The Sequencer function enables a high level of customized and automated operation.



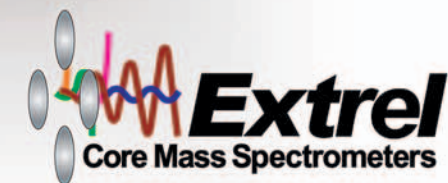
Sample Selection

At Extrel, we realize that every application has unique sample system requirements. We offer the widest and most flexible array of inlet systems including solenoids and both small and large internal diameter rotary valves. The MAX300-IG can handle as many sample positions as needed to optimize the application. As an example, the 80 position FASTValve is ideally suited for applications such as ambient air monitoring which requires many sample points.



The MAX300-IG can be configured for use in either general purpose or hazardous areas including ATEX Zone 1 classifications. In addition, the MAX300-IG has several cooling options to accommodate hot industrial environments including: fan cooled, air conditioning, or water cooled.

Industry Standard Communications include Ethernet, Bi-directional Modbus® RTU or TCP/IP, OPC, Analog and Digital Outputs, and custom communications.



For more information about Extrel's process industrial gas analyzers, visit our website at www.extrel.com or email us at info@extrel.com.

MAX300-IG

Applications

Petrochemical

Acetic Acid
Acrylonitrile
Ambient Air Monitoring
Ammonia
Catalysis Research
Coal Gasification
Ethylene
Ethylene Oxide
Fuel Gas
Hydrogen
Hydrogen Cyanide
Polyethylene
Polypropylene
Methanol
Natural Gas
Vinyl Chloride
Environmental Monitoring
PFCs
Waste Water Analysis
Propane Dehydrogenator
Fence Line Monitoring
Process Gas Leak Detector

Metals Production

Blast Furnace
Coke Oven
Carburization
Vacuum Decarburization
Controlled Atmosphere Analysis
Fuel Gas
Emissions Monitoring
Gas Mixing Stations
Basic Oxygen Process

Pharmaceutical

Fermentation Headspace
Solvent Recovery
Lyophilizer Monitoring
Feedstock Purity
Emissions Monitoring
Waste Water Analysis
Dryers
Ambient Air Monitoring

Semiconductor/Gas Production

UHP Gas Impurities
HAPS Emissions
Green House Gas Emissions
Scrubber/Burnbox Efficiency
Ambient Air Monitoring
Argon in Oxygen
Waste Water Analysis

Water Analysis

Chlorine Monitoring
Residual Sulfite Monitoring
Aeration System Performance
HRVOC Analysis

Food & Fragrance

Gas Quality Monitoring
Fermentation Headspace
Beverage Container Contaminates
Solvent Recovery
Ambient Air Monitoring
QA/QC
HRVOC Analysis

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Extrel CMS maintains sales and service offices around the world.
Please contact us for the office nearest you or visit our web site.

