



GAS CHROMATOGRAPH SOLUTIONS

Emerson's process gas chromatographs are designed for precise gas measurement



Emerson Process Management's Rosemount Analytical family of process gas chromatographs is uniquely designed to provide extended analysis in the most extreme of plant conditions.

Regardless of your process complexity, your Emerson gas chromatograph offers:

- *Better control of the process*
- *Environmental monitoring*
- *Billing and cost accounting for product transfers*

Model 700 Gas Chromatograph

The Model 700 process gas chromatograph is an advanced combination of technology and rugged instrumentation that helps make the most of existing plant manpower. Fully compatible with modern Ethernet networks and DCS communication and designed for field-mounting without the need for expensive analyzer shelters, the Model 700 offers a broad application scope with single- or dual-detector capability.

Model 500 Gas Chromatograph

Rugged enough to maintain repeatability over a complete operating temperature range, the Model 500 can handle up to 12 streams with a wide variety of gas and liquid applications in a single unit. In addition, the Model 500 can be assembled with an additional oven, further extending its analysis capabilities.

Model 1000A Gas Chromatograph

The Model 1000A process gas chromatograph combines the proven analytical components of the Model 500 and Model 700 with the larger oven capacity of a traditional air-bath oven design. The result is maximum analyzer reliability and analytical flexibility in one package.

MON2000 Gas Chromatograph Software

MON2000 is the versatile software solution for gas chromatography analysis. It provides configurable auto-sequencing collection and storage of data analysis from the gas chromatograph controller.



Gas Chromatograph Detectors

Rosemount Analytical's process gas chromatographs have a selection of detectors to handle the wide range of analytical demands found in typical online applications. Whether the components of interest are in the percent range or down to the parts-per-billion range, precise and reliable measurement is possible.

- Thermal conductivity detector (TCD) is sensitive down to 3 ppm
- Flame ionization detector (FID) is sensitive down to the parts-per-billion level for hydrocarbon compounds
- Flame photometric detector (FPD) is sensitive down to the parts-per-billion level for sulfur compounds
- Dual TCD / TCD, TCD / FPD, or TCD / FID configurations available

Industry Applications

We help our customers maximize process performance, productivity, and profitability across numerous process industries. Our gas chromatograph application solutions include:

Refineries

- Fuel and flare gas
- Hydrotreater unit
- Catalytic reformer
- Isomerization unit
- Aromatics unit

Petrochemical

- Ethylene plants
- Polymer plants
- Ammonia plants
- Methanol plants
- Polyethylene plants
- Polypropylene plants

Gas processing

- NGL and LNG plants
- Cryogenic gas plants

Power generation

- Combustion turbines

Environmental monitoring

- Ambient air monitoring
- HR-VOCs in flares and cooling towers

Summary

Rosemount Analytical's process gas chromatographs have established their place in the industry by offering low cost of ownership and a wide applications breadth.

Due to the gas chromatograph's ability to be field-mountable without sacrificing precision or reliability, the gas measurement can be made at or near the sample point, greatly reducing such expenses as shelters, air conditioning, heating, and long/heated sample lines.

Furthermore, Rosemount Analytical process gas chromatographs are designed to operate for long periods of time without adjustment. When adjustments are required, all components are easily accessible and can be performed in the field in minutes. Many adjustments can even be made remotely via a PC workstation communicating by Ethernet or over a modem.

For further information:

Visit us online at:
<http://www.RAIhome.com>

Emerson Process Management
Rosemount Analytical, Inc.
Analyzers & Solutions
5650 Brittmoore Road
Houston, Texas, USA
77041

©2009 Rosemount Analytical, Inc. All rights reserved.

For Emerson Process Management trademarks and service marks, please go to:
<http://www.emersonprocess.com/home/news/resources/marks.pdf>. All other marks are properties of their respective owners.

ROSEMOUNT[®]
Analytical

For more information:
www.RAIhome.com


EMERSON[™]
Process Management