Масс-спектрометр

MGA-1200EC

Технические характеристики

Process Mass Spectrometer

The **MGA™1200EC™** process mass spectrometer is a fixed magnetic sector analyzer that provides rapid, accurate and stable real-time analysis of up to 16 gas components in multiple gas streams. It's the fastest Process mass spec on the market

- It is hardware configurable to provide both continuous and instantaneous readings of gas concentrations; less than 1 second response time for all components.

- Windows® based Prime™ software allows operator access and control of a variety of operating parameters.

Prime

- Provides mid-ppm to 100% level analysis of components.

- Long-life turbomolecular pumping system allows rapid vacuum pump-down in less than 2 minutes.

- Unmatched stability provides best-in-industry drift specification and longest intervals for calibration.

- Ability to interface to process streams with capability of driving both rotary and solenoid manifolds.

- Optional validation assistance program for 21 CFR Part 11 compliance.

- Available for general purpose and hazardous area operation.

M G A   A P P L I C A T I O N S

Ammonia/Urea
- H_2/N_2 Converter Efficiency
- Reactor Efficiency
- Separation

Biotech/Pharmaceuticals
- Microbial Fermentation
- Mammalian Cell Culture
- Reactor Feed Gas

Ethylene Oxide
- Reactor Inlet
- Reactor Outlet
- Pilot Plant

Fuel Cell Analysis

Leak Detection
- Hydrogen Leaks
- Hazardous Gases

Petroleum Refining
- Hydrogen Plants
- Hydrogen Reforming
- Coal Gasification
- Ethanol Plants
- Flame Stack Monitoring

Steel Processing
- Blast Furnace Top Gas
- BOF Top Gas
- Coke Oven Gas

Turbine Feed Gas Analysis

MGA Advantage
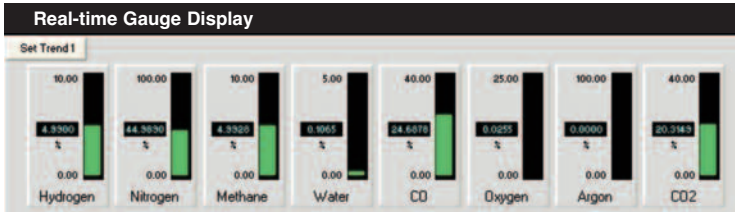
- **Continuous and instantaneous analysis**

- **Analyze up to 128 streams, including both process and calibration gases, in user-defined order**

- **Standard communications**
  – RS-232 Serial
  – Modbus® RTU & TCP/IP

- **Optional communications**
  – Analog (0-10 Vdc, 4-20 mA)
  – OPC®
  – Profibus

- **Scalable sampling systems and calibration manifolds available**

Prime™ Software Power Drives the Process

Prime

Prime software is used by the MGA™ 1200EC analyzer for process monitoring of multi-component gas streams. A Windows® based graphical interface provides the user with capabilities such as real-time analysis, automatic calibration, trending, sample system control and DCS communications. The Prime software is delivered with a data station.
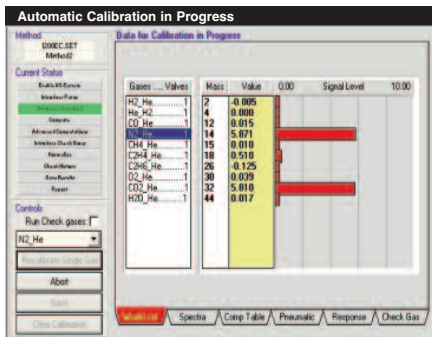

Real-time Gauge Display

Real-time displays

Formats include gauge, tabular or multi-stream trending. Up to 96 user-defined elements can be displayed in real- time on six pages.

- *MGA electrometer outputs*
- *MGA compositional analysis*
- *User-defined calculations and alarms*
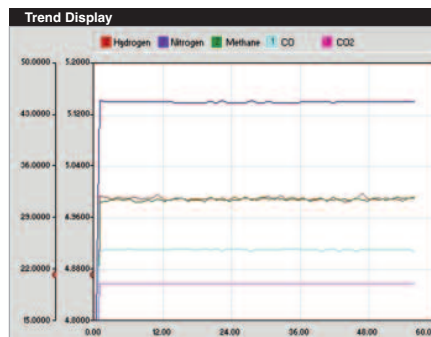- *User-supplied analog and digital inputs*

Custom Sample Conditioning System

Automatic Calibration in Progress

Trend Display

Configure Sample Cycle

Calibration

Calibration is fully automatic with a Prime-controlled sampling system for calibration standards. Calibration can be initiated manually or initiated automatically based on:
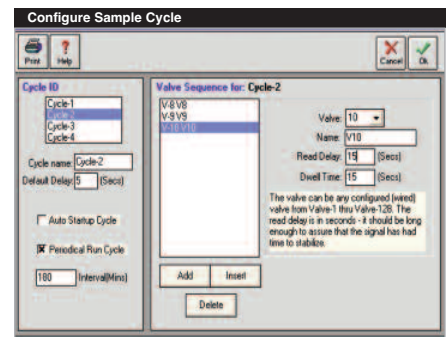
- *Elapsed time*
- *Run time*
- *Ethernet/Modbus RTU Signal*

Trending

Up to 36 user-defined elements can be trended in real-time. Features include:

- *Adjustable time X-axis*
- *User specified colors*
- *Two adjustable Y-axes*

Sample System Control

Prime software can control rotary valve or solenoid valve based systems with user-definable sequences:

- *Auto-starting sequence*
- *Auto-starting periodic cycle*
- *Up to 128 valves*

AIT can design and build a variety of turnkey accessories to optimize your system.

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72
Астана +7(7172)727-132
Белгород (4722)40-23-64
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Ростов-на-Дону (863)308-18-15

Рязань (4912)46-61-64
Самара (846)206-03-16
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Сочи (862)225-72-31
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Уфа (347)229-48-12
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Единый адрес для всех регионов: ati@nt-rt.ru || www.ait.nt-rt.ru