

Model 8900 Gas Chromatograph

Baseline - MOCON, Inc.™

ANALYZER

The Model 8900 is a multipurpose gas chromatograph designed to continuously monitor single or multiple gas components in a wide range of applications.

The analyzer is microprocessor based containing powerful embedded firmware that is virtually transparent to the end user. There are a variety of state of the art detector, calibration and gas train options offering the flexibility and precision necessary to analyze from sub- parts per million (sub-ppm) to percent levels.

Automatic calibration is ideal for unattended operation. The internal pump option makes it compact and transportable. There are a variety of industry standard outputs, such as RS-485 / RS232, multiple 4-20 mA or 0-20 mA, and multiple relays for alarm, diagnostics or user specified timed events.

Applications are pre-configured before delivery or by running SkyChrom™ software on a computer. The computer can be disconnected and the analyzer will operate independently. When connected to a PC, data can be collected in a universal text format with a user definable data export utility for reports.

Chromatograms can be stored continuously or based on events such as alarms. Detector options include Photoionization Detector (PID), Flame Ionization Detector (FID) and Thermal Conductivity Detector (TCD).

Baseline, the reference point from which all things are measured.



Applications

The Model 8900 is compact, rugged, and easily transported for survey work, or it can be bench or rack-mounted for continuous monitoring applications such as:

- Well logging - fast C1-C5
- Area monitoring of toxic gases for industrial hygiene and safety - Ethylene Oxide, Acrylonitrile, Butadiene, Styrene, Epichlorohydrin and many others
- Fenceline (perimeter) monitoring around industrial and remediation sites - BTEX and other VOC's
- Scrubber efficiency - HC's and VOC's
- Carbon bed breakthrough detection - solvents and organic compounds
- Monitoring, blending or contaminant analysis of industrial gases
- Methane /Non-methane analysis
- A list of over 200 gases is available upon request

Features

- Accurate & specific to a wide variety and range of gases
- Continuous unattended operation, operates with or without a computer
- Automatic calibration and baseline correction for long-term stability
- Outputs include digital, user definable analog and user definable logic
- PC based SkyChrom™ software stores multiple analytical methods
- Battery backup system protects stored analytical parameters
- Accommodates up to two detectors for added versatility

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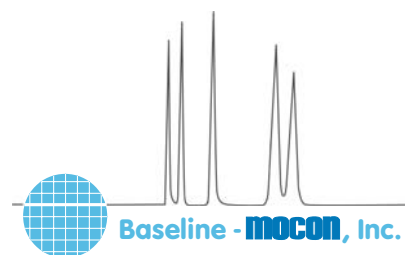
Specifications

SAMPLING	Single point analyzer for prefiltered (≤ 0.1 microns), non-condensing samples
<i>Valves</i>	Standard: (1) 10-Port valve (additional valves optional)
COLUMNS	Packed or capillary
CALIBRATION	Automatic using a dedicated standard
DETECTOR	Single or dual detector (see detectors under Options & Accessories)
OVEN	
<i>Temperature</i>	Ambient to 150 °C (± 0.1 °C)
OUTPUT	
<i>Analog</i>	Standard: (1) 0-20 mA or 4-20 mA loop power supplied, isolated. Selectable for: gas concentration, unintegrated detector signal or diagnostics (see Options & Accessories for additional outputs)
<i>Digital</i>	Standard: RS-485 output (RS-232 converter option).
PHYSICAL	Dimensions: 19.00" W x 8.75" H x 16.00" D (48.26 cm W x 22.23 cm H x 40.64 D). Nominal weight: 30 lb (13.64 kg).
CONFIGURATION	Bench-top or rack-mount (19" panel)
DISPLAY	Digital vacuum fluorescent, 20 characters x 2 lines
POWER	90-260 VAC, @ 50-60 Hz (as specified)
OPERATING CONDITIONS	
<i>Temperature</i>	32-104 °F (0-40 °C)
<i>Humidity</i>	0-95%, non-condensing
GAS CONNECTIONS	1/4" or 1/8" O.D. Tube fitting connectors

Options & Accessories

SAMPLERS	Built-in or external sample pump Additional 10-port valve (consult factory) Injection port (on sample loop)
DETECTORS	Photoionization (PID) 10.6 eV or 11.7 eV Flame Ionization (FID) Thermal Conductivity (TCD) detector(s) Consult factory for other options.
OUTPUTS	Up to 10 additional programmable 4-20 mA outputs Voltage outputs – 0-1 V, 0-5 V or 0-10 V Up to 10 additional programmable relays
SOFTWARE	SkyChrom™ external integration, GC setup and acquisition software for PC
ENCLOSURES	General purpose, wallmount, X-purged or Z-purged
GAS GENERATORS	Zero air or hydrogen
CALIBRATION GAS	Span gases for a variety of applications

Represented by:



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