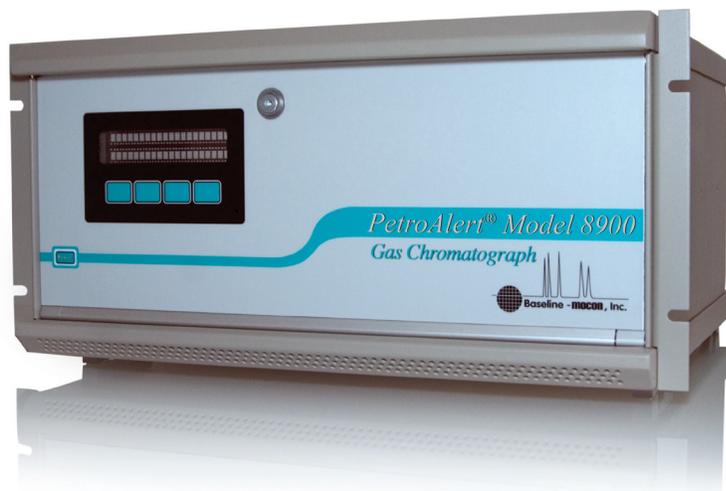


PetroAlert® Model 8900

Gas Chromatograph



Analyzer

The PetroAlert® Model 8900 Gas Chromatograph combines the selectivity of gas chromatography with the sensitivity, broad dynamic range, and hydrocarbon selectivity of a flame ionization detector (FID) providing fast analysis of C1-C5 hydrocarbons required in Mud Logging for oil and gas exploration.

The Series 8900 is a multi-purpose gas chromatograph designed to continuously monitor single or multiple gas components in a wide range of applications. The analyzer is microprocessor based and contains powerful embedded firmware. This makes it an online instrument with GC technology that is virtually transparent to the end user.

The 8900's automatic calibration is ideal for unattended operation. It can be set up on a bench-top or rack-mounted, and its compact size makes it transportable. There are a variety of industry standard outputs, such as network (LAN), RS232, multiple 4-20 mA or 0-20 mA, and multiple relays for alarm, diagnostics or user specified timed events.

The application is configured at the factory before delivery with the SkyChrom™ software from Baseline®. The computer can be disconnected and the analyzer will operate independently. When connected to SkyChrom™, 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.

Application

- Analysis of C1-C5 Hydrocarbons (Methane, Ethane, Propane, Butanes, and Pentanes) including Propylene

Features

- Detection limit of <10ppm as Methane
- Fast analysis <60 seconds
- Continuous unattended operation, operates with or without a computer
- Automatic baseline adjustment for long-term stability
- Local and remote calibration
- Automatic FID ignition
- Automatic Hydrogen & Combustion Air shutoff for maximum safety
- Analog output ranges are user selectable
- Concentration and diagnostic alarm relays
- Outputs include digital, user definable analog and user definable logic
- PC based SkyChrom™ software stores multiple analytical methods
- Onboard short-term data storage



PetroAlert® Model 8900

Gas Chromatograph

Specifications

Sampling:

Single point analyzer for pre-filtered (≤ 0.1 microns), non-condensing samples

Valves: Standard: (1) 10-Port valve (additional valves optional)

Columns: Packed

Calibration: Automatic or Manual using a dedicated standard

Detector: Single FID

Accuracy: +/- 5% Full-scale

Linear Range: 0 - 100% as Methane

MDQ: <10ppm Methane

Oven Temperature: 65°C

Output:

Analog - Standard: (1) 0-20 mA or 4-20 mA loop power supplied, isolated.

Digital - Standard: RS-232 output, LAN (Local Area Network)

Relays: Standard: (5) programmable (latched/not, NE/NNE, NO/NC) as contact closure (1A @ 30Vdc).

Physical Dimensions: 17.41" (44.2cm) W x 9.36" (23.8cm) H x 14.83" (37.7cm) 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

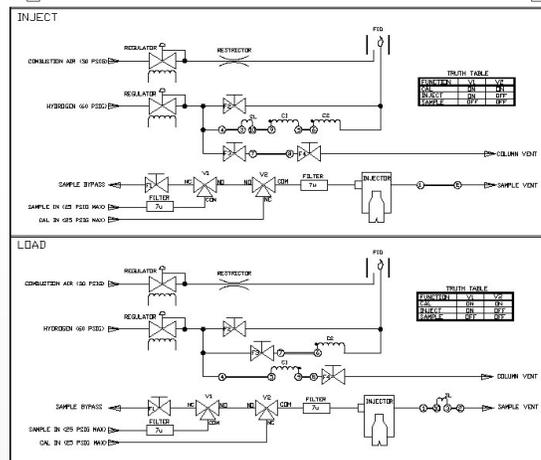
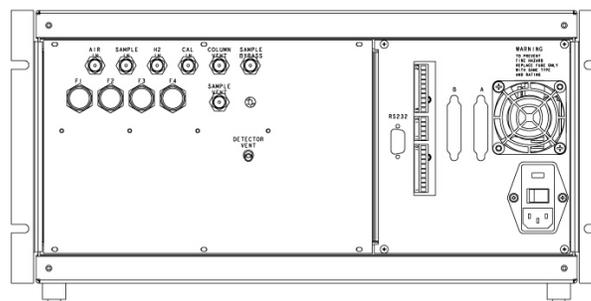
Temperature: 32-104 °F (0-40 °C)

Humidity: 0-95%, non-condensing

Gas Connections: 1/4" (6.35mm) or 1/8" (3.175mm) O.D. tube fitting connectors or consult Baseline®

Support Gas: Combustion air (HC free air), Carrier gas-UHP H₂, Fuel - UHP H₂

Enclosures: General purpose, wallmount, X-purged or Z-purged



Options & Accessories

Samplers:

Built-in or external sample pump

Injection port (on sample loop)

8950 Multipoint Sampler (4/8/16 pt) w/ up to 16 analog outputs & 32 relays

Outputs

Analog output board - up to 20 additional programmable 4-20 mA outputs

Voltage outputs - 0-1 V, 0-5 V or 0-10 V (others on request)

Relay board - up to 32 additional programmable relays

Inputs: Optional digital input board for 3 contact closure inputs. Supports start analysis, start calibration, and analyze calibration gas as sample.

Software: SkyChrom™ external integration, GC setup and data acquisition software for PC

Gas Generators: Zero air or Hydrogen

Calibration Methods: Gas cylinder, response factors

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