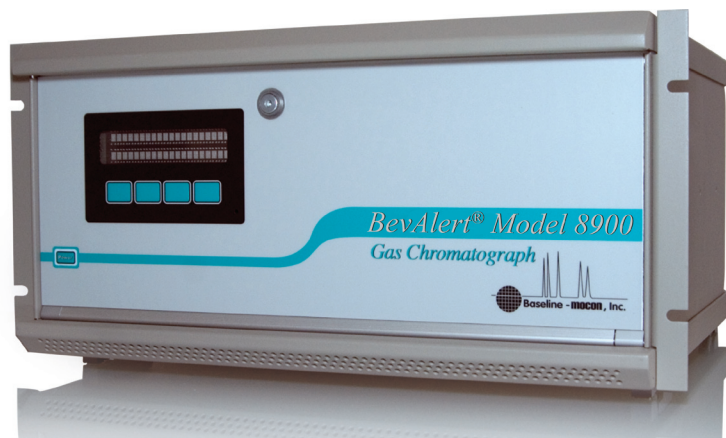


BevAlert® Model 8900

Gas Chromatograph



Analyzer

The BevAlert® Model 8900 is a specialized instrument utilized by specialty gas manufacturers and the food and beverage industry to monitor trace volatile organic compounds or total sulfur in CO₂ used in carbonated beverages (water, carbonated drinks, beer, etc.) as well as quick frozen foods.

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 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.

Applications

- Direct ppb level measurement of Acetaldehyde, Benzene, Toluene, Ethylbenzene, Xylenes, and Vinyl Chloride in CO₂
- Direct ppm level measurement of Methanol in CO₂
- Total Sulfur measurement of organic sulfides, SO₂, COS, and H₂S at ppb levels

Features

- No pre-concentration required
- Total Sulfur: Detection limit of <20 ppb as Hydrogen Sulfide
- Continuous unattended operation, operates with or without a computer
- Automatic baseline adjustment for long-term stability
- Local and remote calibration
- Optional analog outputs of Acetaldehyde, Benzene, Toluene, Ethylbenzene, Xylenes or total sulfur concentrations
- 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
- Multipoint sampling options
- Onboard short-term data storage



CERTIFIED ISO 9001:2000

Specifications

Sampling:

Single point analyzer for pre-filtered (≤ 0.1 microns), non-condensing samples
4 or 8 point sampling options

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

Columns: Capillary

Calibration: Automatic or Manual using a dedicated standard

Detector: Single PID (High-sensitivity PID optional)

Accuracy: +/- 5% Full-scale

Linear Range: 0 - 5ppm

MDQ:

ABTEX: <50ppb Acetaldehyde, <2ppb Benzene, <5ppb Toluene, <5ppb Ethylbenzene, <5ppb Xylenes

VCAMB: <2ppb Vinyl Chloride, <50ppb Acetaldehyde, <2ppm Methanol, <2ppb Benzene,

Total Sulfur: <20ppb Hydrogen Sulfide

Oven Temperature: 85°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).

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:

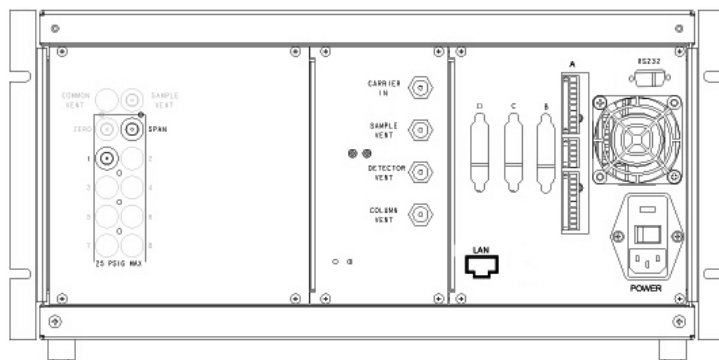
ABTEX: Carrier: Nitrogen (Hydrogen optional)

VCAMB: Carrier: Nitrogen (Hydrogen optional)

Total Sulfur: Carrier and reactor: Hydrogen

BevAlert® Model 8900

Gas Chromatograph



Configuration: Bench-top or rack-mount (19" panel)

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

Total Sulfurs 21.83" (55.5cm) D

Nominal weight: 30 lb (13.64 kg)

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

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

Calibration Methods: Gas cylinder, 8990 Permeation Calibrator, response factors

D022.5

P.O. Box 649, 19661 Highway 36 • Lyons, CO 80540

P: 1.800.321.4665 • 1.303.823.6661 F: 303.823.5151 E: Sales@BaselineIndustries.com