Series 9000

Total Hydrocarbon Analyzer

Analyzer

The Series 9000 is the candidate of choice whenever accurate, reliable total hydrocarbon analysis is required. Series 9000 analyzer provides unparalleled flexibility and offers continuous, fully automated gas analysis over a broad range of concentrations.

With an incredible dynamic range from less than 10 ppb on the low range version and up to 100% as methane on the high range version. The analyzer has a generous complement of analog, digital and logic output capabilities. These features place the instrument well ahead of the competition in performance, automation, and configurability.

The analyzer is based on a FlowGuard electronically controlled flame ionization detector (FID) that delivers a small portion of the sample gas to the detector flame. During the combustion process, organic or hydrocarbon-based gases in the sample are ionized to a point where they can be detected by the instrument and reported as a concentration.

The Model 9000 can be configured with internal components for a single or multipoint analysis of non-condensing gas samples. The automatic calibration feature enhances the long-term analytical stability of the instrument.

Applications

The Model 9000 is designed to continuously monitor the total hydrocarbon content of non-condensing gases in a variety of applications, such as:

- Scrubber & oxidizer efficiency
- Carbon bed breakthrough detection
- Contaminant analysis in pure/ultrapure inert gases
- Well logging
- Industrial hygiene & safety monitoring
- Fenceline (perimeter) monitoring around industrial sites
- LEL monitoring

Features

- FID detector.
- 3U case, 19" rack mountable.
- Hydrocarbon detection in three ranges: 0 – 2,000ppm (Methane), 0 – 20,000ppm (Methane), 0 – 100% (Methane).
- Automatic calibration at user-defined intervals.
- **FlowGuard** electronic control of fuel, air and sample.
- Analog ranges programmable from 1ppm – 100% full scale.
- Programmable relays for alarms, events and diagnostics.
- Automatic FID ignition, with automatic shut-off of sample, fuel and combustion air.
- Remote operation via RS-232 and Ethernet.
- Electronic back-pressure regulator with sample bypass system ensures fast response.
- Internal, multipoint sampling option.
- Discrete, multilevel concentration & fault alarms.
- Graphical display and easy to use menu system.

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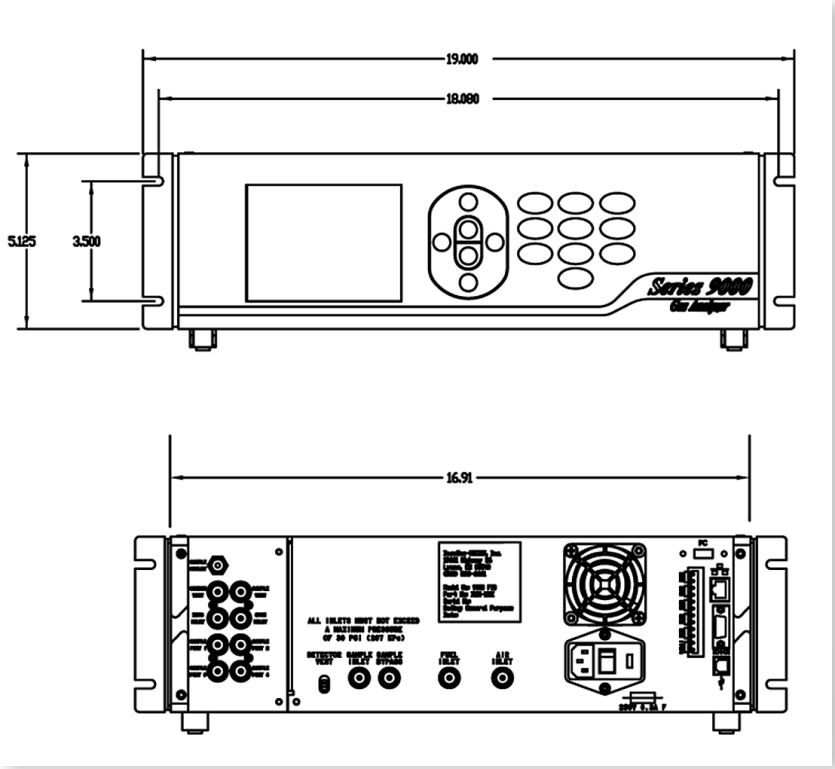

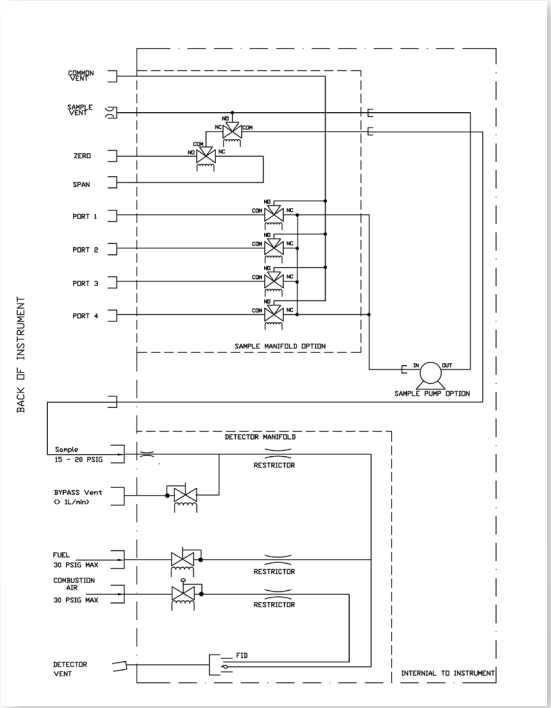

Analytical

Detector: Flame ionization detector (FID).

Range: Low Range (0 – 2,000ppm Methane), Med Range (0 – 20,000ppm Methane), High Range (0 – 100% Methane).

MDQ: Low Range (0.01ppm), Med Range (0.10ppm), High Range (10.0ppm).

Repeatability: +/- 1% Full-scale response.

Drift: +/- 1% over 24 hours.

Response Time: < 5 seconds to 90% of final reading.

Alarms: Multilevel concentration and fault alarms that result in an audible and visually displayed alarm. Alarms may also be mapped to relays to control external equipment.

Sampling: Internal single or multipoint modules, with or without sample pump for pre-filtered (<0.1 microns), non-condensing samples.

Calibration: Programmable automatic or manual calibration.

Support Gas: Hydrogen 35 cc/min, Air 175 cc/min. Hydrocarbon content must be less than 1 ppm.

Physical

Dimensions: 19.00" W x 14.25" D x 5.25" H.

Weight: < 20 lb.

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

Connections: ¼" tube fitting connectors.

Environment Conditions

Operating Temperature: 32 - 104 °F (0 - 40 °C).

Operating Humidity: 0 – 95% (non-condensing).

Electrical

Power: 90 – 230 VAC, 50/60Hz, 3A.

Display: 3.4" x 4.5" graphical display.

Relay Outputs: 5 programmable form A relays rated to 3A @ 230V.

Analog Outputs: 1 programmable 0-20mA or 4-20mA isolated output.

Digital Outputs: RS-232, Ethernet.

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