

# Fully Automated Hydrocarbon Analyzer

## Series 9000 Analyzer

Accurate and Reliable Total Hydrocarbon Analysis  
over a Broad Range of Concentrations

### Continuous Monitoring of Total Hydrocarbon Content in Non-Condensing Gases

#### Applications

- Beverage Grade CO<sub>2</sub> Analysis
- Scrubber & Oxidizer Efficiency
- Carbon Bed Breakthrough Detection
- Contaminant Analysis in Pure/Ultra-Pure Inert Gases
- Well Logging
- Industrial Hygiene & Safety Monitoring
- Fenceline (Perimeter) Monitoring Around Industrial Sites
- LEL Monitoring

#### Features & Benefits

- Flame Ionization Detector
- Graphical Display with Easy to use Menu System
- Sleek Rack Mountable Profile
- Automatic Calibration at User-Defined Intervals
- Internal Multi-Point Sampling Option
- FlowGuard Electronic Control of Fuel, Air and Sample
- Electronic Back-Pressure Regulator with Sample Bypass System
- Discrete, multilevel concentration & fault alarms
- Programmable Analog Output Ranges
- Programmable Relays for Concentration, Alarms, Events and Diagnostics
- Automatic FID (Flame Ionization Detector) Ignition
- Automatic Shut-off of Sample, Fuel and Combustion Air
- Remote Operation via RS-232 and Ethernet
- 9000 Keeper Software allows for Remote Monitoring/Control



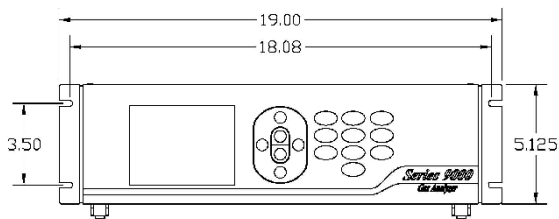
#### Continuous and Fully Automated Gas Analysis

The Baseline® Series 9000 Hydrocarbon Analyzer has a 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.

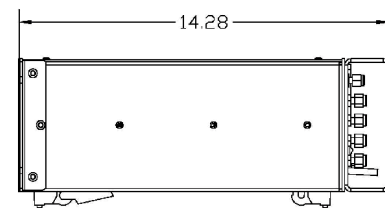
The detector used is a FID (Flame Ionization Detector) with FlowGuard electronic control that delivers a small part of the sample gas to the detector flame. During the combustion process, organic or hydrocarbon-based gases in the sample are ionized and then detected by the instrument and reported as a concentration.

The Series 9000 can be configured with internal components for single or multi-point analysis of non-condensing gas samples. The automatic calibration feature enhances the long-term analytical stability of the instrument. These features place the instrument well ahead of the competition in performance, automation and configurability.

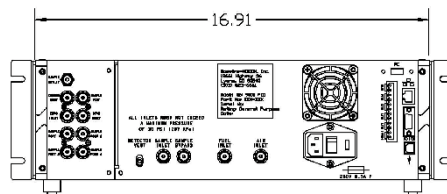
<b>Detector</b>	(FID) Flame Ionization Detector
<b>Ranges</b>	User definable based upon calibration within;
	MDQ 0.01ppm, Full-scale 1 - 200ppm (Methane)
	MDQ 0.1ppm, Full-scale 1 - 2,000ppm (Methane)
	MDQ 0.3ppm, Full-scale 1 -20,000ppm (Methane)
	MDQ 0.003%, Full-scale 0.01 - 100% (Methane)
<b>Repeatability</b>	+/- 1% Full-scale response
<b>Drift</b>	+/- 1% of full-scale over 24 hours
<b>Response Time</b>	< 5 seconds to 90% of final reading
<b>Alarms</b>	Multilevel concentration and fault alarms that result in audible and visual alarms. Alarms may also be mapped to relays to control external equipment
<b>Sampling</b>	Internal single or multi-point modules, for pre-filtered (<0.1 microns) non-condensing samples, with or without sample pump
<b>Calibration</b>	Programmable automatic or manual calibration
<b>Support Gas</b>	Hydrogen 35 cc/min, Air 175 cc/min (typical). Hydrocarbon content must be less than 1 ppm. Fuel blend options available, consult Baseline®
<b>Power</b>	90 – 230 VAC, 50/60Hz, 3A
<b>Relay Outputs</b>	5 programmable form A relays rated to 3A @ 230V AC (optional additional 9 relay output board)
<b>Analog Outputs</b>	1 programmable 0-20mA or 4-20mA isolated output (optional additional 3 analog output board)
<b>Digital Outputs</b>	RS-232, Ethernet



Front View



Side View



Back View

Dimensions are displayed in inches

Physical Characteristics

<b>Dimensions</b>	3u, 19.00" (48.3cm) W x 14.25" (36.2cm) D x 5.25" (13.3cm) H	<b>Weight</b>	< 20 lb (9.07kg)
<b>Configuration</b>	Bench-top or rack-mount 19" (48.3cm) panel	<b>Operating Temperature</b>	32 - 104 °F (0 - 40 °C)
<b>Connections</b>	1/4" (6.35mm) tube fitting connectors	<b>Operating Humidity</b>	0 - 95% (non-condensing)



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

P: 1.800.321.4665 • 1.303.823.6661

F: 303.823.5151

E: info@baselineindustries.com

www.baselineinc.com