

BASELINE[®] 9100

ON-LINE GAS CHROMATOGRAPH



Fully Integrated Gas Chromatograph
with Remote Access Capabilities

Continuously monitor single or multiple gas components in a wide range of applications

MOCON's Baseline[®] 9100 on-line gas chromatograph blends state-of-the-art technology with the reliability and flexibility of gas chromatography. Building on decades of experience, this instrument has been designed with key features to meet your application requirements. The GC is specifically designed for sub-part-per-billion (sub-ppb) to percent levels to analyze a multitude of organic and inorganic compounds.

Detector options include Photoionization (PID), High-sensitivity Photoionization (HS-PID), Flame Ionization (FID), Thermal Conductivity (TCD), or Pulsed Discharge Ionization (PDD). Analytical arrangements typically involve a single valve, two column configuration, but will vary depending upon the application.

The Baseline[®] 9100 is a microprocessor-based instrument controlled by its internal system software. The software receives your instructions directly, using the touch screen on the front panel. The GC's automatic calibration is ideal for unattended operation. 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 concentration alarms, diagnostics or user specified timed events. Data collection features include chromatograms and user-definable text formats for exporting data to reports. Data storage options are either continuous or based on events, such as alarms.

The compact size and design makes this unit transportable and allows for either rack mount configuration or bench top use.

Applications

- Ambient Air Networks
- Well Logging
- Trace Impurities in Specialty Gases
- Indoor Air Quality
- Toxic Gases in the Workplace
- Environmental Source Monitoring
- Fenceline Monitoring
- Carbon bed breakthrough detection
 - Solvents and organic compounds

A list of over 200 detectable gases is available upon request. (Brochure A040)

Every application is factory configured before delivery, making set-up and installation that much easier.

Features & Benefits

- Integrated GC software - No need for external computer
- 2 USB ports for mouse, keyboard or flash drive
- Color LED graphical display with touch screen
- Display options include:
 - Chromatogram
 - Concentrations
 - Historical Data
 - Diagnostics
 - Sequencing and Methods
- Automatic and remote calibration
- Continuous unattended operation
- Multipoint sampling options
- LAN connection
- Multiple analog output options
- User definable alarm relay options
- Internal software stores multiple analytical methods and chromatograms

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DATA SHEET

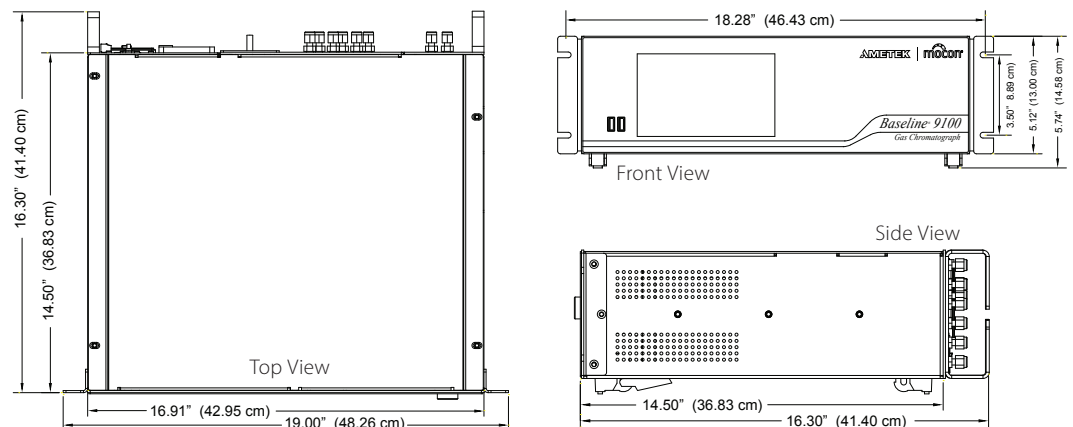
Specifications

Detectors	Photoionization (PID) High-sensitivity (HS-PID)	Flame Ionization (FID) Thermal Conductivity (TCD)	Pulse Discharge Ionization (PDD) Consult us for other options
Inputs	Optional Digital input board for six contact closure inputs. Supports start sequence (8 each), start sequence loop (8 each), open method (8 each), and diagnostic functions.		
Outputs	Standard Digital: RS-232, LAN Optional I/O Board: 5 programmable (latched/not, NE/NNE) relays as contact closure (3 A @ 250 V DC); 1 analog output, 6 digital inputs Additional expansion boards: Relays: available in multiples of 8 up to 16 Analog: available in 4 or 8 analog outputs configurable as 4–20 mA or 0–20 mA; Voltage: Consult MOCON - Baseline for additional options.		
USB	Two ports on the front panel for a keyboard, mouse or flash drive		
Alarms	Concentration and fault; Audible; Selectively en-/disabled for keypad input, fault, alarms, and e-mail		
Display	7" Color LCD graphical display with touch screen		
Columns	Packed, micro-packed, or capillary columns; Specific to application		
Analytical Valves	Standard: 10-port valve sample injection/column switching. Contact us for additional valve options		
Sampling	Standard Single point analyzer for pre-filtered (1 micron), non-condensing samples	Optional Internal: 4- or 8-point sampling External: 16 or more	
Components, optional	<ul style="list-style-type: none"> Built-in or external sample pump Manual sample injection port (to sample loop) 	<ul style="list-style-type: none"> Methanizer Sulfur reducing catalyst 	
Calibration	Automatic or Manual using a dedicated standard		
Calibration Methods	Gas Cylinder, Model 8990 Permeation Calibrator, or response factors		
Operating Temperature	32 °F to 104 °F (0 °C to 40 °C)	Operating Humidity	0 to 95% (non-condensing)
Configuration	<ul style="list-style-type: none"> Bench-top or 19" (48.3 cm) rack-mount, 3U 	Connections	1/4" or 1/8" O.D. tube compression fittings or 1/8" Legris. Contact us for additional options.
Power	110–230 V AC, 50/60 Hz, 2 Amp	Weight	< 30 lb (13.64 kg)



Accessories

- Baseline® 9150 Multipoint Sampler
- Baseline® 8990 Permeation Calibrator
- Baseline® 9130 Sample Conditioner
- Gas Generators — Zero Air, H₂ or N₂



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