

# SERIES 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

The AMETEK MOCON - Baseline Series 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 Series 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 A040.1)

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

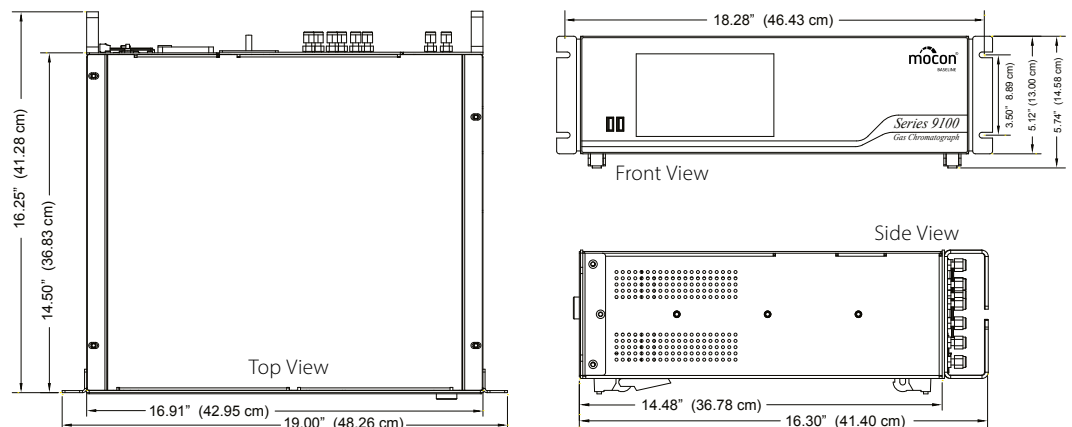
## Specifications

<b>Detectors</b>	Photoionization (PID) High-sensitivity (HS-PID)	Flame Ionization (FID) Thermal Conductivity (TCD)	Pulse Discharge Ionization (PDD) Consult MOCON - Baseline for other options
<b>Inputs</b>	<b>Optional</b> 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.		
<b>Outputs</b>	<b>Standard</b> Digital: RS-232, LAN <b>Optional</b> 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.		
<b>USB</b>	Two ports on the front panel for a keyboard, mouse or flash drive		
<b>Alarms</b>	Concentration and fault; Audible; Selectively en-/disabled for keypad input, fault, alarms, and e-mail		
<b>Display</b>	7" Color LCD graphical display with touch screen		
<b>Columns</b>	Packed, micro-packed, or capillary columns; Specific to application		
<b>Analytical Valves</b>	<b>Standard:</b> 10-port valve sample injection/column switching. Contact MOCON - Baseline for additional valve options		
<b>Sampling</b>	<b>Standard</b> Single point analyzer for pre-filtered (1 micron), non-condensing samples	<b>Optional</b> Internal: 4- or 8-point sampling External: 16 or more	
<b>Components, optional</b>	<ul style="list-style-type: none"> <li>Built-in or external sample pump</li> <li>Manual sample injection port (to sample loop)</li> </ul>	<ul style="list-style-type: none"> <li>Methanizer</li> <li>Sulfur reducing catalyst</li> </ul>	
<b>Calibration</b>	Automatic or Manual using a dedicated standard		
<b>Calibration Methods</b>	Gas Cylinder, Model 8990 Permeation Calibrator, or response factors		
<b>Operating Temperature</b>	32 °F to 104 °F (0 °C to 40 °C)	<b>Operating Humidity</b>	0 to 95% (non-condensing)
<b>Configuration</b>	<ul style="list-style-type: none"> <li>Bench-top or</li> <li>19" (48.3 cm) rack-mount, 3U</li> </ul>	<b>Connections</b>	1/4" or 1/8" O.D. tube compression fittings or 1/8" Legris. Consult MOCON - Baseline for additional options.
<b>Power</b>	110–230 V AC, 50/60 Hz, 2 Amp	<b>Weight</b>	< 30 lb (13.64 kg)



## Accessories

- Model 9150 Multipoint Sampler
- Model 8990 Permeation Calibrator
- Model 9130 Sample Conditioner
- Gas Generators — Zero Air, H<sub>2</sub> or N<sub>2</sub>



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