

# **BASELINE<sup>®</sup> 9100** **GAS CHROMATOGRAPH**

Lab Quality Analysis in a Process or Field Analyzer

# BASELINE® 9100 GAS CHROMATOGRAPH

The 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 level detection, dependent upon the application, to analyze a multitude of organic and inorganic compounds.

## ACCURATE DETECTION

- Integrated GC software
- Color LCD touch screen display
- Automatic & remote calibration
- Continuous unattended operation
- Multipoint sampling options

MOCON will select the best detector for your application commonly utilizing Photoionization (PID), High-sensitivity Photoionization (HS-PID), Flame Ionization (FID), or Thermal Conductivity (TCD). Analytical arrangements typically involve a single valve, two column configuration, but may vary depending upon the application.

The Baseline 9100 touchscreen LCD display and internal system software keep configuration and operation simple and the automatic calibration feature is ideal for unattended operation. The compact size and design make this unit suitable for field applications, allowing for either rack mount configuration or bench top use.

## UNLIMITED APPLICATIONS

- Ambient air networks
- Fence-line monitoring
- Toxic gas detection in the workplace
- Carbon bed breakthrough detection
- Trace impurities detection in specialty gases

A full suite of user configurable data collection, storage and outputs allow the GC to speak your language, your way. Users can configure up to 1 year of on-board storage of chromatograms, ASCII results via RS-232 or LAN, contact closure relays and 4-20 mA analog outputs, all independent of one another.

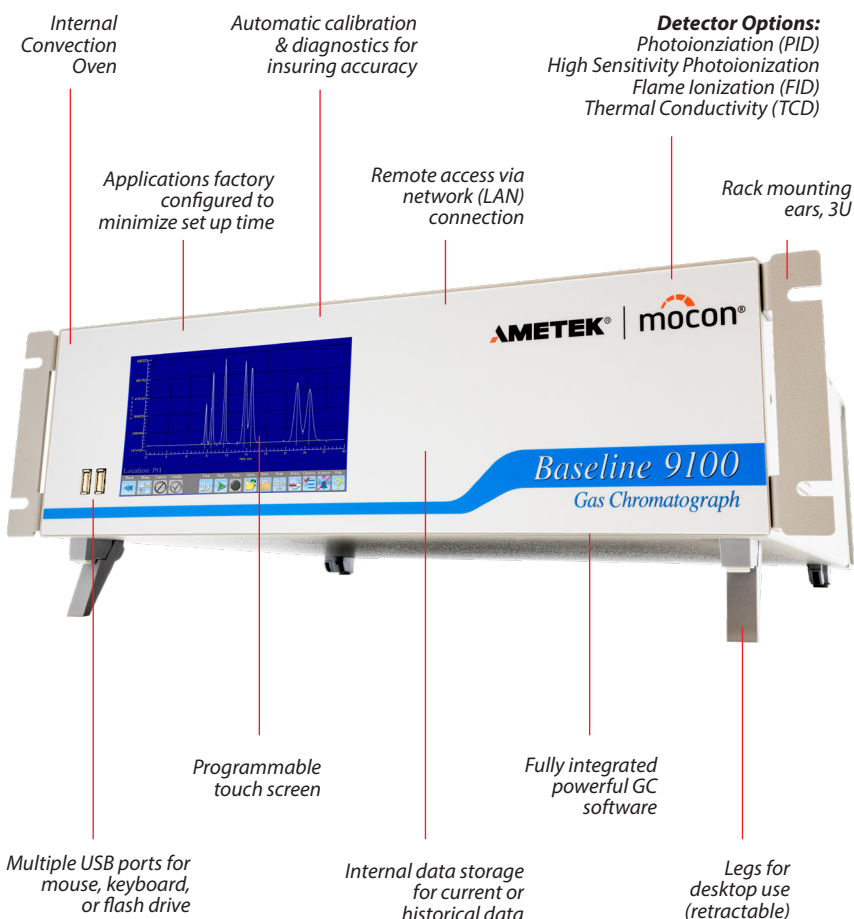
## Features & Benefits

### AUTOMATED CONTROL FEATURES

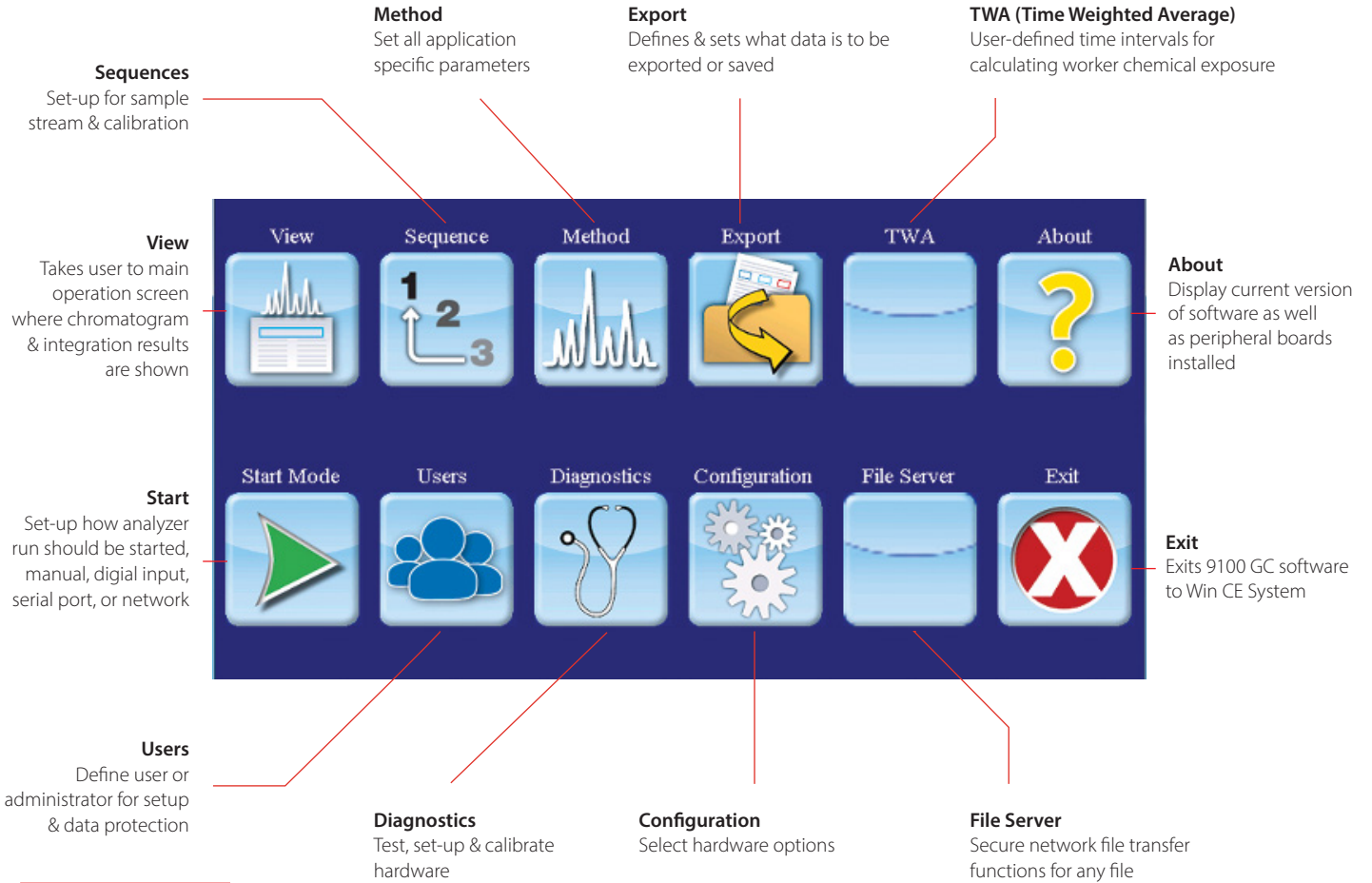
- FlowGuard control of fuel, air, and sample with automatic shut-off
- Automatic FID ignition
- Electronic back-pressure regulator with sample bypass system
- Automatic calibration at user-defined intervals

### VERSITILE PLATFORMS

- Color LCD display and touchscreen with easy to use menu
- Benchtop or rack-mountable
- Single or multi-point sampling
- Ethernet and serial customizable output
- Programmable analog output ranges
- Programmable relays for diagnostics, concentration, alarms, and events



Display



Display Choices

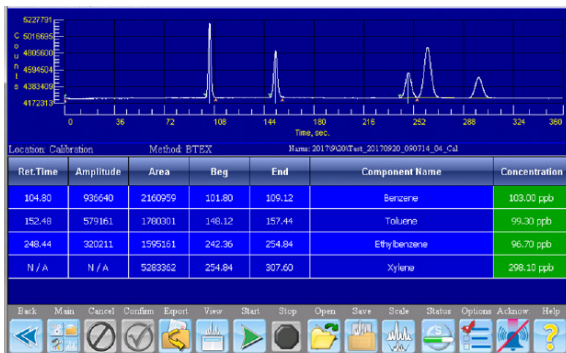
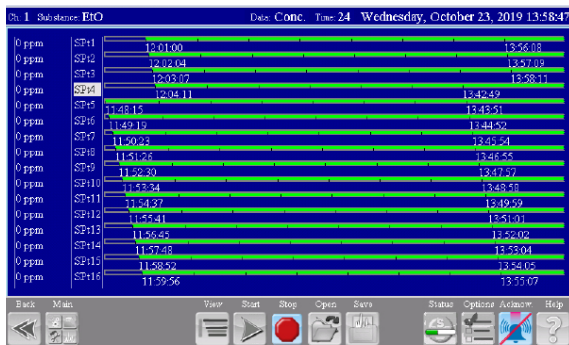


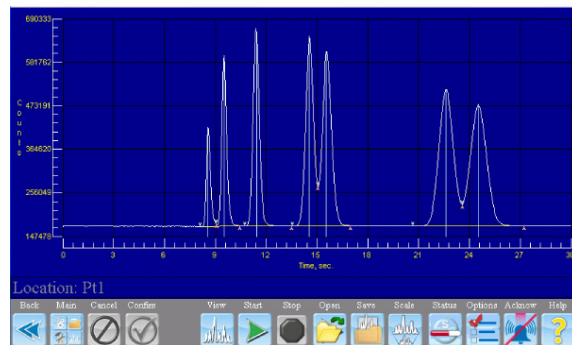
Table of Components & chromatogram



Table of Components



Time Weighted Average (TWA)



Chromatogram (C1-CS Example)

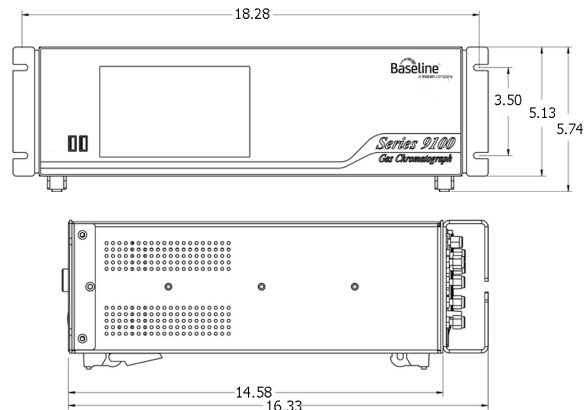
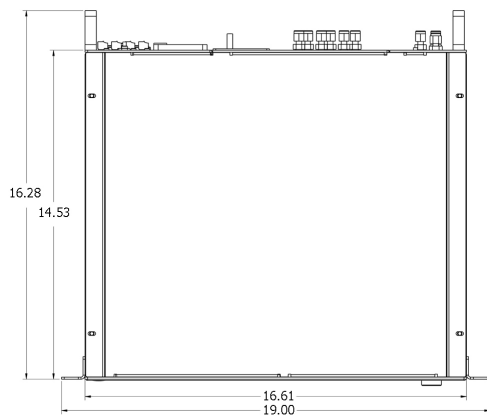
# BASELINE® 9100 ON-LINE GAS CHROMATOGRAPH

PRODUCT BROCHURE

## Display

<b>Detectors</b>	Photoionization (PID) High-Sensitivity PID (HS-PID)	Flame Ionization (FID) Thermal Conductivity (TCD)	(Dependent upon application)
<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		
<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 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; <i>Voltage</i> : 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>	Fault and three user selectable concentration alarms; Audible, Selectively en-/disabled for keypad input, fault, alarms, and e-mail		
<b>Displays</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.		
<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: Additional 8- or 16- points via external sampler	
<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, Baseline® 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" (48.3cm) rack-mount, 3U</li> </ul>	<b>Connections</b>	1/4" or 1/8" O.D. tube compression fittings or 1/8" Legris. Contact us for additional options
<b>Power</b>	110-230 V AC, 50/60 Hz, 2 Amp	<b>Weight</b>	< 30 lb (13.64 kg)

## Dimensions



## Accessories

- **Baseline® 9150 Multipoint Sampler**
  - Fan additional sample points greater than 8
- **Baseline® 8990 Permeation Calibrator**
  - To use with permeation tubes for calibration
- **Baseline® 9130 Sample Conditioner**
  - To provide a particulate and moisture free sample
- **Gas Generators - Zero Air, Hydrogen, Nitrogen**



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