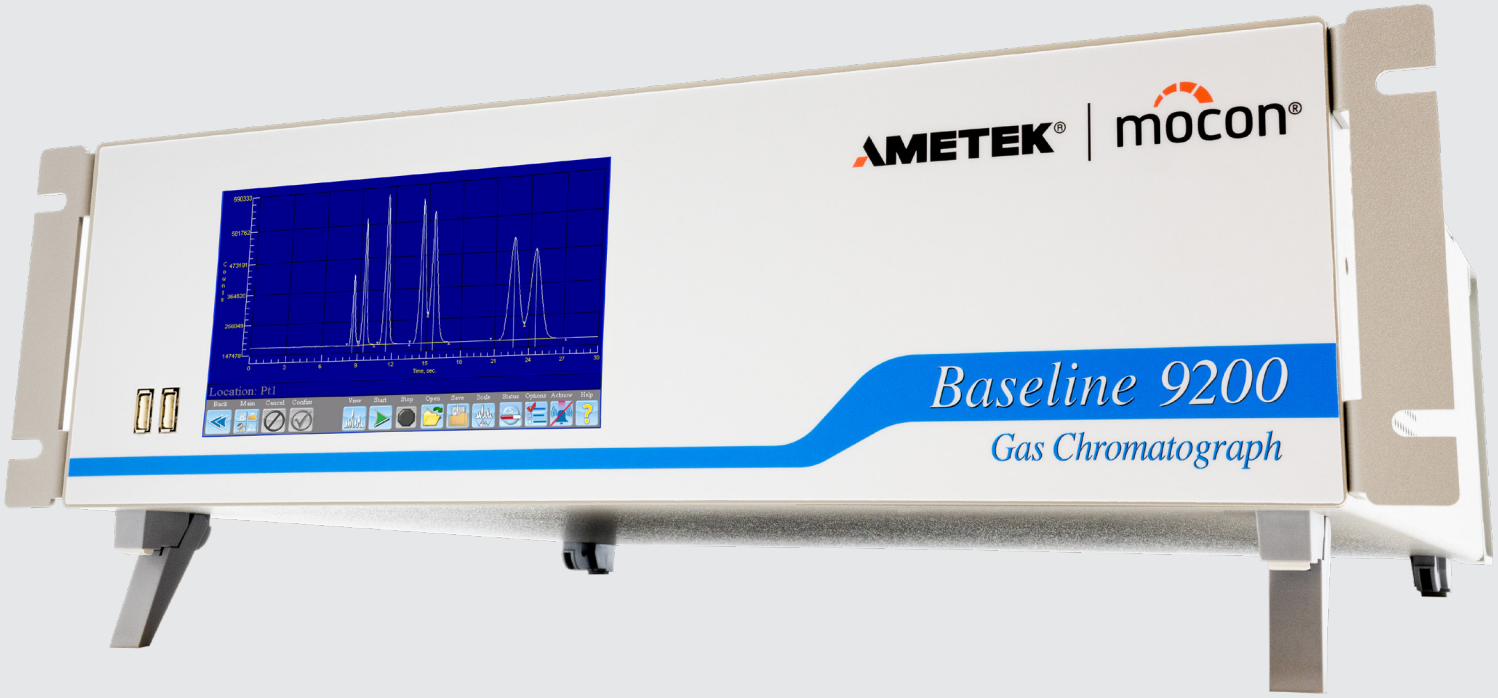
PRODUCT BROCHURE




# BASELINE® 9200
# DUAL DETECTOR GAS CHROMATOGRAPH

Simultaneous Lab Quality Analyses: GC/GC, GC/THA

AMETEK® | mocon®

# BASELINE® 9200
# DUAL DETECTOR GAS CHROMATOGRAPH

The Baseline® 9200 gas analyzer combines the selective detection of a gas chromatograph (GC) with another simultaneous GC application or with the continuous monitoring abilities of a total hydrocarbon analyzer (THA) in a single, compact, sensitive and stable instrument.

Building on decades of experience, this instrument has been designed with key features to meet your application requirements. The GC component 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 detectors 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 and if a dual-GC or GC/THA is being utilized.

The Baseline® 9200 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

- Surface Logging
- Ambient air networks
- Fence-line monitoring
- Toxic gas detection in the workplace
- 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.

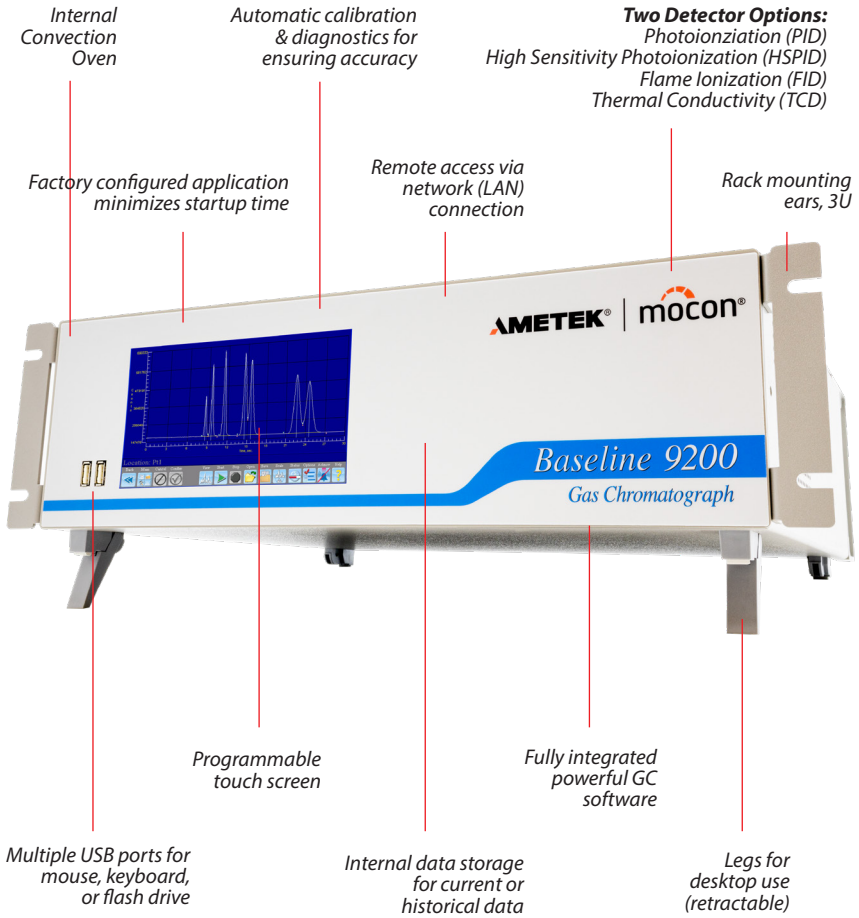
## Features & Benefits

### AUTOMATED CONTROL FEATURES

- FlowGuard control of fuel, air, and sample with automatic shut-off
- Automatic FID ignition
- Electronic back-presuure 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



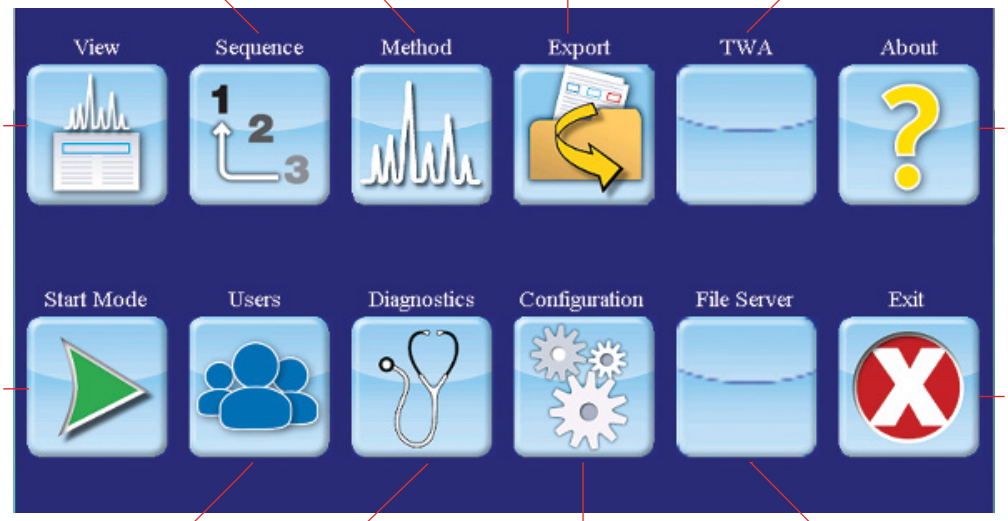
## Display

Sequences
Set-up for sample stream & calibration

Method
Set all application specific parameters

Export
Defines & sets what data is to be exported or saved

TWA (Time Weighted Average)
User-defined time intervals for calculating worker chemical exposure




View
Main operation screen showing chromatogram & integration results

About
Displays current versions of software and peripheral boards installed

Start Mode
Manual, digial input, serial port, or network

Exit
Exits 9100 GC software to Win CE System

Users
Define user or administrator for setup & data protection

Diagnostics
Test, set-up & calibrate internal hardware

Configuration
Select hardware options

File Server
Secure network file transfer functions for any file

## Display Choices

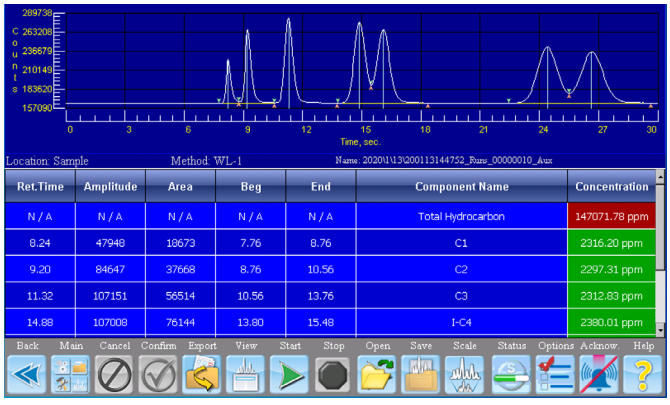
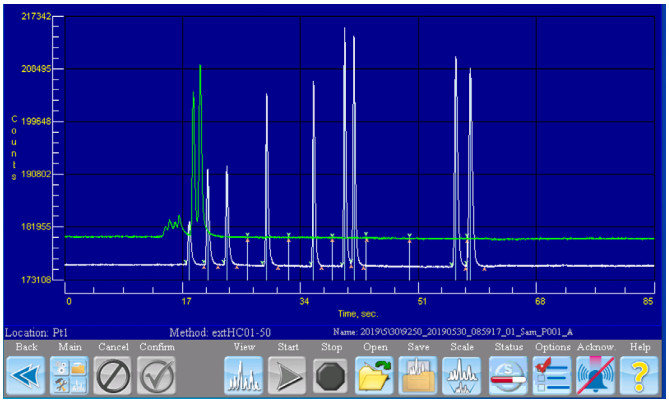



Table of components, chromatogram, & continuous analyzer



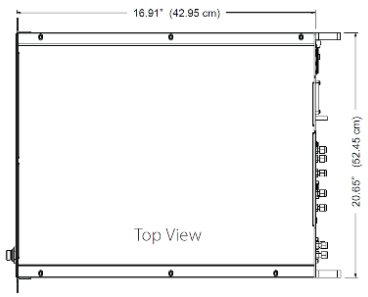

Dual analysis chromatograms

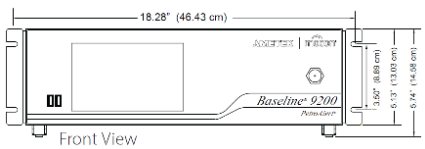
# BASELINE® 9200
# DUAL DETECTOR GAS CHROMATOGRAPH

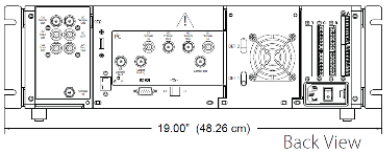
PRODUCT BROCHURE

## Specifications

| | | | | |
|---|---|---|---|---|
| | **GAS CHROMATOGRAPH - DETECTOR 1** | | | |
| DETECTORS | Photoionization (PID)<br>High-Sensitivity PID (HS-PID) | Flame lionization (FID)<br>Thermal Conductivity (TCD) | (Dependent upon application) | |
| COLUMNS | Packed, micro-packed, or capillary columns; Specific to application | | | |
| ANALYTICAL VALVES | Standard: 10-port valve sample injection/column switching | | | |
| | **GAS CHROMATOGRAPH - DETECTOR 2 *(OPTION)*** | | | |
| DETECTORS | Photoionization (PID)<br>High-Sensitivity PID (HS-PID) | Flame lionization (FID)<br>Thermal Conductivity (TCD) | (Dependent upon application) | |
| | **TOTAL HYDROCARBON ANALYZER - DETECTOR 2 *(OPTION)*** | | | |
| RANGES | User definiable based upon calibration: (Analyzer range is configured at the factory)<br><br>Very Low - 0.01 ppm to 200 ppm • Low - 0.1 ppm to 2,000 ppm • Medium - 0.3 ppm to 20,000 ppm • High - 0.003% ppm to 100% ppm | | | |
| REPEATABILITY | ± 1% full-scale response | | DRIFT, ZERO | ± 0.025% full-scale over 24 hours |
| RESPONSE TIME | T90 < 5 seconds | | DRIFT, SPAN | ± 1% full-scale over 24 hours |
| | **INSTRUMENT** | | | |
| INPUTS | Optional | Six digital inputs can be used to trigger analyses and diagnostic functions | | |
| OUTPUTS | Standard<br>Optional | Digital: RS-232, LAN<br>I/O Board: 5 programmable (latched/not, NE/NNE) relays as contact closure (3 A @ 250 V DC); 1 analog output, 6 digital<br>Relays: Available in multiples of 8 up to 16<br>Analog: Available in 4 or 8 analog outputs configuralbe 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 | Fault and three user selectable concentration alarms; Audible, Selectively en-/disabled for keypad input, fault, alarms, and e-mail | | | |
| DISPLAYS | 7" Color LCD graphical dispaly with touch screen | | | |
| SAMPLING | Standard<br>Single point analyzer for pre-filtered (1 micron), non-condensing samples | Optional<br>Internal: 4- or 8- point sampling<br>External: Additional 8- or 16- points via external sampler | | |
| COMPONENTS (OPTIONAL) | • Built-in or external sample pump<br>• Manual sample injection port (to sample loop) | • Methanizer<br>• Sulfur reducing catalyst | | |
| CALIBRATION | Automatic or Manual using a dedicated standard | | | |
| CALIBRATION METHODS | Gas Cylinder, Baseline® 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 | • Bench-top or<br>• 19" (48.3cm) 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) |





Ametek-Mocon, Inc.
19661 PO Box 649 US-36
Lyons, CO 80540, USA
www.ametekmocon.com
info.baseline@ametek.com