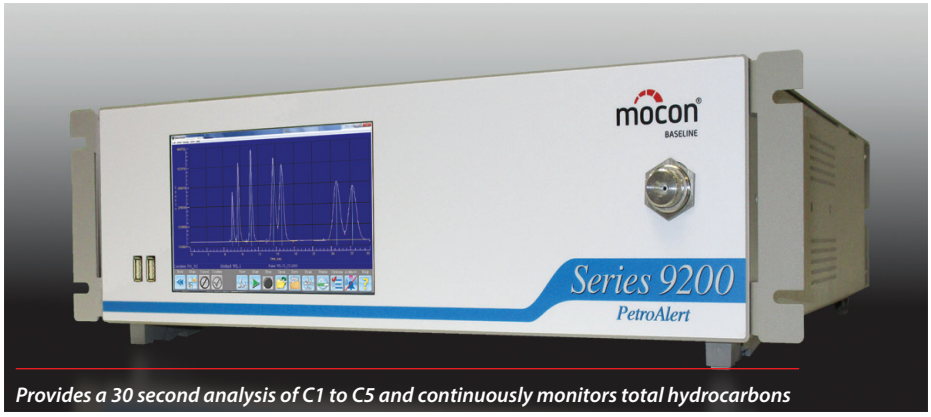
DATA SHEET

SERIES 9200 PETROALERT®
ON-LINE GAS CHROMATOGRAPH & TOTAL HYCROCARBON GAS ANALYZER



Provides a 30 second analysis of C1 to C5 and continuously monitors total hydrocarbons

Two Instruments In One

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

The 9200 PetroAlert is specifically engineered to meet the requirements of the oil and gas industry's exploratory well-logging process. Its speed and accuracy allow well loggers monitoring a drill site to analyze the hydrocarbons within a well both quantitatively and qualitatively, while drilling. That ability makes for a more efficient drilling process and more timely evaluation of a well's potential. Each PetroAlert is factory configured to meet specific customer monitoring requirements.

The Series 9200 PetroAlert incorporates dual-flame ionization detectors (FIDs): one dedicated to the GC and the other dedicated to total hydrocarbon measurement. The GC performs fast C1 to C5 analysis (< 30 seconds, preserving the C1-C2 separation at 200:1 concentration ratios) with a detection limit of < 10 ppm as methane (CH_4), while the total hydrocarbon detector continuously monitors total hydrocarbons down to 0.003% and up to 100% as CH_4. The analyzer's automatic calibration feature is ideal for unattended operation.

The microprocessor-based PetroAlert is controlled by a fully integrated and powerful icon-based system software—eliminating the need for an external PC. The analyzer receives instructions either directly—using a programmable touchscreen on the front panel—or through remote access when the analyzer is connected to an Internet-accessible network and utilizing the free PC software provided with each instrument. The analyzer's data collection features include chromatograms and user-definable options for exporting data to logging software. Data storage options are either continuous or based on events, such as alarms.

Baseline's PetroAlert analyzers are industry proven and adopted worldwide by major oil and petrochemical companies, as the finest FID-based hydrocarbon field analyzers available while providing automated lab quality data.

Applications

- Well Logging
  - GC:
    Light Hydrocarbon Analysis
    C1 to C5 (methane, ethane, propane, butanes, and pentanes)
    or
    Heavy Hydrocarbon Analysis
    C6+
  - THA: Continuous monitoring of total hydrocarbons
- Other configurations available

Every application is factory-configured and tested ensuring minimal set up and installation. Our world-class team of Service Specialists are available to offer start-up, training and product support.

Features & Benefits

- WITS, Binary, ASCII output options
- Dual FIDs
- Automatic FID Ignition
- Includes manual sample injection port
- Built in safety feature: Automatic shutoff for hydrogen & combustion air
- Integrated GC icon-based software - No need for external computer
- 2 USB ports for mouse, keyboard or flash drive
- Color LED graphical display with touch screen
- Automatic and remote calibration
- Continuous unattended operation
- LAN, RS-232 connection
- Multiple analog output options
- Compact size and design
  - 19-in rack mount or bench top
  - ideal for field applications

mocon® BASELINE | AMETEK® PROCESS & ANALYTICAL INSTRUMENTS

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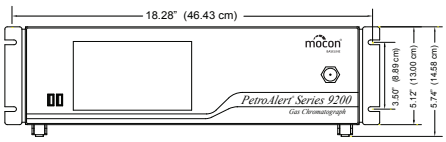
Specifications

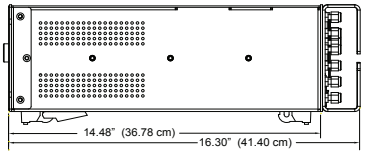
Gas Chromatograph			
Linear Range (FID)	0 - 100% methane, CH_4 MDQ: < 10 ppm CH_4 full-scale Accuracy +/- 2%, full-scale		
Columns	Packed, micropacked, or capillary columns; Specific to application		
Analytical Valves	**Standard**: 10-port valve sample injection/column switching	**Optional**: Additional valve options - dependent upon application	
Total Hydrocarbon Analyzer			
Ranges (Analyzer range is configured at the factory.)	User definable based upon calibration within 0.003% to 100% (methane, CH_4), full-scale Accuracy ± 1%, full-scale		
Repeatability	± 1% full-scale response	**Drift, Zero**	± 0.025% of full-scale over 24 hours
Response Time	T90 < 5 seconds	**Drift, Span**	± 1% of full-scale over 24 hours
Instrument			
Detectors	Dual Flame Ionization Detectors (FIDs) — one dedicated to the GC and one dedicated to total hydrocarbon measurement		
Support Gases	Combustion air — Zero. Hydrocarbon content must be < 1 ppm. Carrier — Ultra high purity (UHP) H_2 Fuel — Ultra high purity (UHP) H_2		
Inputs	**Optional** Digital input board for 6 contact closure inputs. Supports start sequence (8 each), start sequence loop (8 each), open method (8 each), and diagnostic functions.		
Outputs	**Standard** Digital: LAN, RS-232 Protocols: WITS, Binary, ASCII **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		
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		
Sampling	Single point analyzer for pre-filtered (1 micron), non-condensing samples		
Components, optional	Internal sample pump		
Calibration	Automatic or Manual using a dedicated standard		
Operating Temperature	32 °F to 104 °F (0 °C to 40 °C)	**Operating Humidity**	0 to 95% (non-condensing)
Configuration	Bench-top or 19" (48.3 cm) rack-mount, 3U	**Connections**	1/4" or 1/8" O.D. tube compression fittings, 1/8" Legris, or 6 mm O.D. tube compression
Power	100/230 V AC, 50/60 Hz, 2 Amp	**Weight**	< 30 lb (13.64 kg)

Accessories

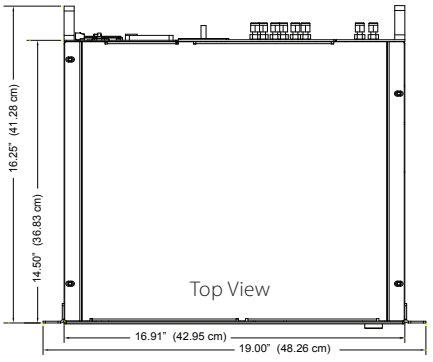
- Model 9130 Sample Conditioner
- Gas Generators — Zero Air, H_2 or N_2



Front View



Side View



Top View

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