

C1-C5 GAS CHROMATOGRAPH



What is the C1-C5 Gas Chromatograph?

The Measuresoft Gas Chromatograph (GC) is the candidate of choice whenever accurate, reliable, qualitative hydrocarbon Species analysis is required.

The GC has a lower detection limit of 10 ppm. The analyzer has an availability of both analog and logic output capabilities.

The analyzer is based on a Flame Ionization Detector (FID). During the combustion process, organic or hydrocarbon-based gases in the sample are ionized, detected by the instrument and reported as a concentration in ppm.

The instrument is calibrated to ensure accuracy of +/- 5%, and is stable to within +/- 1% of full scale.

Accurate Reliable Analysis

Applications

Designed to continuously monitor the total hydrocarbon content of non-condensing gases in a variety of applications, such as:

Carbon bed breakthrough detection

Well logging

Quick and efficient C1-C5 analysis

Features

Flame Ionization Detector (FID)

Compact 19" (rack mountable)

Calibrated output signal

Analog detection of concentrations starting at 10 ppm

Automatic FID ignition, with automatic shut-off of sample, fuel and combustion air

Data Output: 4-20Amp Analog, 0-10V and USB

Data Input via WITS over Serial Port or TCP/IP

Digital display

C1-C5 sample time within 88 seconds

*Integrated sample desiccant pot and 5 micron filter to protect column from particulate and wet samples

Analytical Specifications

Detector - Flame Ionization Detector (FID)

Ranges - Full-scale 10 ppm - 100% (Methane)

Repeatability - The instrument is calibrated to ensure accuracy of +/- 5% of signal.

Drift - ±3% of Full-Scale over 24 hours

Column - Packed

Calibration - Manual calibration

Support Gas - Hydrogen 35 cc/min, Air 175 cc/min (typical). Hydrocarbon content must be less than 1 ppm

Sampling - Mode selection "C1-C4" or "C1-C5"

Sampling Time - C1 to C5 88 seconds and C1 to C4 66 seconds



Physical Specifications

Nominal Dimensions - 19" W x 21" D x 5.25" H

Weight - < 20 lb

Configuration - Bench-top or rack-mounted 19" (48.3cm) panel

Connections - 1/4" tube fitting connectors

Operating Temperature - 32 to 104°F (0 to 40°C)

Operating Humidity - 0 - 95% (non-condensing)

Electrical Specifications

Power - 120-240 VAC, 50/60Hz, 3A

Display - 6.5" x 2" digital display

Analog Outputs - 4-20mA Isolated, 0-10V Isolated and USB

*optional

Sampler - Rack-mounted Sample conditioning panel (19" x 21" x 9")



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