

Model 200 Hydrocarbon Analyzer - FID Dual Channel, Methane / Non-Methane (NMHC), Oven Heated Total Hydrocarbon Analyzer

The VIG Industries, Inc. Model-200 is a [microprocessor](#) based, [oven heated](#) methane / non methane / total hydrocarbon gas analyzer designed for high accuracy, sensitivity and stability. The Model-200 uses two independent [flame ionization detectors](#) (FID), one to measure total hydrocarbons and the second coupled with a GC (gas chromatography) [column](#) for the separation of the methane and non methane components.



A sample is fed to the analyzer via an internal heated pump to the first FID for a continuous real time total hydrocarbon reading. A portion of the sample is trapped and pushed through a GC column to separate the methane component and then to the second FID. Any remaining sample in the column is back flushed through the column to obtain the non methane component.

The detectors, pump head, capillaries, sample filter, all sample lines, GC column, [solenoid valves](#) and all other components that come in contact with the sample through analysis are maintained in a temperature controlled oven to prevent condensation, and to provide repeatable, reliable performance in the analysis of a wide variety of hydrocarbon concentrations in gaseous mixtures or in ambient air.

Applications

Compliance Monitoring - US EPA Method 18 and Method 25A
Process Monitoring - Continuous monitoring and alarm or control of:

- Process gas streams utilizing organic solvents
- Crude oil
- Other chemicals containing hydrocarbons

Efficiency Monitoring - Monitoring effluent of volatile organic compound (VOC) reduction equipment for:

- Environmental compliance
- Efficiency control of incinerators (Thermal or catalytic)
- Scrubbers
- Carbon absorbers
- Monitoring of catalytic converters
- Combustion and diesel engine efficiency
- Other abatement equipment

Safety Monitoring - Lower explosive limit (LEL) monitoring and/or control of:

- Ovens/dryers
- Fugitive emissions monitoring
- Personnel work area monitoring
- Leak detection of process equipment or solvent storage areas

Stack Monitoring