



VIG

200-E

20-E

HYDROCARBON
ANALYZERS

*Innovative solutions
worldwide*

*Continuous volatile
organic compound
quantification*

Analyzer Overview

VIG Industries microprocessor based analyzers, Models VIG 20-E and VIG 200-E, measure the total hydrocarbons (HCT), or methane (CH₄) and non-methane hydrocarbons (NMHC) using one or two independent flame ionization detectors (FIDs) (Ethane optional). The measurement of non-methane hydrocarbons is taken in real time using a (GC) column for separation of the CH₄ and NMHC.

The sample is kept at a controlled temperature (190°C) throughout the circuit, in order to prevent condensation and ensure measurement performance. The analyzers are 19" rack mountable for fixed Emission Monitoring Control (EMC) installations. The rugged modular design and reliable electronics also make the analyzers ideal for temporary field/stack testing applications.

Exclusive features

- Methane cutoff of over 99% regardless of the concentration and throughout its use.
- Automatic burner ignition (also possible manually) and emergency glow plug activated by the operator.
- Filtration on two levels for better protection, with easy filter replacement.
- Easy maintenance and low cost replacement parts
- Specific ethane measurement
- Meets ISO 17025 calibration requirements and current standards.

Plus

- 45 minute warm-up time
- Large LCD screen and easy to use menu
- FID fed by synthetic air (in compliance with the new recommendations)
- Alarm level relay and control
- Flame-out safety: Screen indication and fuel shutoff and switch for external alarm optional
- Easy maintenance and low cost replacement parts

Other options available upon request

The measurement of non-methane hydrocarbons is taken in real time, using a separation column (GC). The output and longevity of the cutoff are remarkable (>99%) even for high concentrations.

VIG 20-E

Total Hydrocarbons (HCT)

VIG 200-E

Total methane
and non-
methane
hydrocarbons
(NMHC)

Applications

- Process gas control
- Measuring industrial waste emissions
- Verifying extraction systems, thermal catalysts, etc.
- Testing engine gases (automotive, aeronautics, etc.)
- Combustion gas control
- Quantifying fugitive emissions



VIG 20-E



VIG 200-E

Specifications

| | |
|------------------------------|--|
| Measurement Principle | Single and dual flame ionization detectors at 190°C |
| Ranges | 0-10-100-1000-10000 ppm (LDL: 0.01 ppm) 0-100-1000-10000-100000 ppm (LDL 0.1 ppm) Other ranges available upon request |
| Flow-rate | 2 l/min |
| Noise | Less than 0.2% of full scale |
| Drift | +/- 1% of full scale per 24hrs |
| Linearity | +/- 1% of each full scale |
| Repeatability | +/- 1% of each full scale |
| Stability | +/- 1% of each full scale |
| Response Time | THC: Under 5 seconds |
| CH4 | Under 45 seconds (VIG200-E) |
| Methane Dissociation | > 99% (VIG200-E) |
| Analog Outputs | 0-10 VDC or 4-20 mA |
| Dimensions | 19" rack, 425(L) x 610(D) x 230(H) mm |
| Weight | 18 kg to 35 kg depending on options |
| Ambient Temperature | From 10°C to 50°C |
| Power Supply | 230VAC (50Hz) or 115 VAC (60 Hz) |

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CleanAir: THC-NMHC Solutions

HTC Sample System Components, Integration
and Other Services Available Upon Request

