

The FIDAMAT 6

For the determination of Total Hydrocarbons



fidamat 6

The new FIDAMAT 6 is based on the proven measuring principle Flame Ionization. This principle allows the measuring of the sum of Hydrocarbons (THC = Total Hydrocarbons) in gases from traces up to high-percentage measuring ranges.

Typical applications are e.g. emission monitoring according to governmental regulations, exhaust monitoring from driers and paint shops, process measurements in the chemical and petrochemical industry, TLV measurement in workplaces, ambient air monitoring and measurement of impurities in gas production.

The FIDAMAT 6 completes the successful family of Series 6 process gas analyzers from Siemens.

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The FIDAMAT 6 fits seamlessly into the field-proven ULTRAMAT 6 and OXYMAT 6 series of gas analyzers. State-of-the-art technology guarantees a high degree of measuring accuracy and availability. Thanks to its robust design, the FIDAMAT 6 is very well suited not only for measuring traces of total hydrocarbons but also for measuring corrosive process gases. User-friendly operation and integrated safety functions as well as easy access to all components guarantee reliability and lowest operation costs.

Examples of applications:

- Emission monitoring according to governmental regulations (e.g. TA-Air, 13./17. BImSchV; TÜV and MCERTs approved)
- Impurities in pure gases
- TLV monitoring at workplaces
- Exhausts from driers and paint shops
- TOC measurement with stripper
- Process gases in the chemical and petrochemical industry
- Research and Development
- Ambient air monitoring

The measuring principle:

The heart of the FIDAMAT 6 is the flame ionization detector. The sample gas is mixed with Hydrogen and a certain amount of air and fed to nozzle in the combustion chamber. There the mixture is ignited and the hydrocarbons are burnt, i.e. ionized. An electrode on top of the flame picks up the ions. The ionization current is proportional to the amount of Hydrocarbon atoms in the sample gas. Extremely important with this measurement is the optimized and stable adjustment of all pressures and flows. This is perfectly achieved in the FIDAMAT 6 by high-quality pressure regulators and capillaries.

Fully automatic and safe operation:

- Automatic operation (start-up and shutdown) by flow controls
- Automatic zero and span calibration
- Automatic re-ignition of the flame
- Safety shut-off of sample gas and back purge of the gas path

The advantages:

- Completely heated gas path up to 200 °C; allows to measure corrosive gases and gases with high moisture content (up to 100%)
- Wear-free, corrosion-proof stainless steel filter
- Clog-free sample gas quartz capillary
- Both pump and filter removable from the front
- Separate pump head heating/ regulation
- Corrosion protection by pump shut-down in the case of a deviation in the setpoint temperature of oven or pump heating system
- Response factors according to emission requirements (BImSchV)
- Low combustion air consumption
- Leak safe ceramic detector conducts

For any additional questions, please contact our local partners or one of the addresses listed below:

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