REICAT

PRODUCT INFORMATION

Analytical Equipment Waste Air

Analytical appliances

Take advantage of ReiCat's up-to-date **analytical equipment.** Measure and define the following parameters in your system:

- **Determination** of oxygen, nitrogen oxides, carbon monoxide
- **FID measurement** (mgC/m³) of **volatile organic carbons (VOC)** in waste gases
- **Gas extraction** to enable further analysis

Analysis of exhaust gas

Principle
The gas sample is drawn by using an intregrated sample pump. The actual measurement is executed with several electro-chemical measuring cells for: CO, NO, NO_2 und O_2.
Scope of application
Impurities of industrial exhaust air can be detected and determined. Emmission measurement according to 1. BimSchV (Federal Immission Control Ordinance, Germany) is possible as well.
Measuring range
O_2: 0-25 %vol., resolution: 0.001 %vol.
CO: 0-8000 ppm, resolution: 1 ppm
NO: 0-2000 ppm, resolution: 1 ppm
NO_2: 0-200 ppm, resolution: 1 ppm
Gas temperature: -10 up to +1200 °C

Organic carbon content via FID

Principle
The measuring gas is burned in a hydrogen flame. The contained carbon components are converted into ions as combustion product. These can be detected by the flame ionisation detector. The measuring value is stated as mgC/m³ or ppm.
Scope of application
The measurement is primarily applied to exhaust gas processes, in which the environmental impact is a major indicator for the process quality.
Measuring range
0-160000 mgC/m³
Sensitivity: 10 ppm

Gas sampling

Application
The gas sample is drawn into special previously evacuated containers. The captured gas can be used for further analysis.
Scope of application
This procedure can be applied to almost any established analytical method such as GC, GCMS, IR, etc.
Measuring range
Depending on the relevant method.

Learn more at:

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