

Analytical equipment

ReiCat is able to measure the following parameters with modern analysing techniques:

- Organic carbon in exhaust gas via FID measurement (mgC/m³)
- Helium leak test using a pressure probe
- Concentration measurement of oxygen, nitrogen oxides, CO and CO₂
- Gas sampling for further analysis

Organic carbon via FID

Measuring principle

The sample gas is burned in a hydrogen flame. This way the containing carbon compounds are converted into the ions of the combustion products, which can be detected by the flame ionisation detector.

The measuring value is displayed as mgC/m³.

Application scope

The measurement is primarily applied to exhaust gas processes, where the environmental impact is a major indicator for the process quality.

Measuring range 0-160000 mgC/m3

Helium leak test

Measuring principle One part of the existing unit is pressurized with helium. The leaking gas is gathered by a pressure probe and lead to the analyzer by means of the vacuum inside the device. The detector is a mass spectrometer which is tuned to helium. The leak rate is displayed in mbar L/s, which is an indicator for the tightness of the unit.

Application scope

The measurement is mainly applied to plant construction jobs, when special valuable or dangerous gases are being handled.

The gas sample is drawn into special previously evacuated

With this procedure almost every established analytical me-

The containing gas can be used for further analysis.

hod, e.g. GC, GCMS, IR, etc. may be applied.

Depending on the relevant method.

Detection limit: 1x10⁻⁷ mbar*L/s

Principle

containers.

Application scope

Measuring range:

Gas sampling

Exhaust gas analysis

Measuring principle

The gas sample is drawn by using an integrated membrane pump. The actual measurement is executed with several electrochemical measuring cells for: CO, NO, NO₂ und O₂.

Application scope

With this measurement the impurities of industrial exhaust gas can be detected and determined. A measurement accordning to 1. BimSchV is possible as well.

Measuring range

O2: 0-25 %vol., resolution: 0.001 %vol. CO: 0-8000 ppm, resolution: 1 ppm NO: 0-2000 ppm, resolution: 1 ppm NO₂: 0-200 ppm, resolution: 1 ppm Gas temperature: -10 bis +1200 °C







Helium leak test



FID

For more information:

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Exhaust air analysis



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Gas sampling