**Emission monitors gas**

**MCS100E HW Multi gas analyser**

***Description:***

The MCS100E HW is an analyzer system for the extractive measurement of up to 8 IR active gas components. It can be supplemented with an oxygen analyser and a total hydrocarbon analyser. From the sampling unit to the cell, all ducts having contact with measuring gas are heated above the dew point and thus protected against corrosion. This hot measuring technology also enables water-soluble components such as HCl and NH3 to be measured.

**Specification:**

Measured values: CH4, CO, CO2, H2O, HCl, N2O, NH3, NO, NO2, O2, SO2

Performance-tested measurements: CO, CO2, H2O, HCl, NH3, NO, O2, SO2

Measurement principle: Interference filter correlation, Gas filter correlation, Zirconium dioxide sensor

Gas flow rate: 200 l/h ... 1,000 l/h Depending on application

Measuring ranges

CH4 0 ... 70 ppm / 0 ... 1,400 ppm

CO 0 ... 60 ppm / 0 ... 2,000 ppm

CO2 0 ... 25 Vol.-% / 0 ... 100 Vol.-%

H2O 0 ... 1 Vol.-% / 0 ... 40 Vol.-%

HCl 0 ... 10 ppm / 0 ... 1,900 ppm

NH3 0 ... 30 ppm / 0 ... 660 ppm

NO 0 ... 150 ppm / 0 ... 1,900 ppm

NO2 0 ... 50 ppm / 0 ... 500 ppm

N2O 0 ... 50 ppm / 0 ... 1,000 ppm

O2 0 ... 1 Vol.-% / 0 ... 21 Vol.-%

SO2 0 ... 25 ppm / 0 ... 5,000 ppm

*Other measuring ranges on request*

Certified measuring ranges

CO 0 ... 75 mg/m³

CO2 0 ... 20 Vol.-%

H2O 0 ... 40 Vol.-%

HCl 0 ... 15 mg/m³

NH3 0 ... 20 mg/m³

NO 0 ... 200 mg/m³

O2 0 ... 21 Vol.-%

SO2 0 ... 75 mg/m³

Response time (t90): ≤ 200 s Depending on application

Process temperature: 0 °C ... +1,300 °C

Sample gas temperature, Inlet analyzer system 0 °C ... +220 °C

Process pressure: 900 hPa ... 1,100 hPa

Ambient temperature: +5 °C ... +35 °C< With cooling device +5 °C ... +50 °C

Ambient pressure: 900 hPa ... 1,100 hPa

Conformities-Approved for plants requiring approval  
2001/80/EC (13. BImSchV)  
2000/76/EC (17. BImSchV)  
27.BImSchV  
TA-Luft (Prevention of Air Pollution)  
EN 15267 (MCERTS)  
EN 14181:2004

Electrical safety: CE

Enclosure rating: IP43