

Wöhler SM 500 Suspended Particulate Analyzer

TECHNICAL DATA

Suspended Particulate Matter concentration / Filter load (mStF) in 15 min

Reading Filter load in mg
 Sensor technology real time digital mass scale
 Range 0,0 to 45,0 mg (equals 0,0 mg/m³ to 1.000,0 mg/m³ in flue gas)
 Accuracy ± 0.3 mg

Sample rate (VolS)

Reading standard litre per minute (slpm)
 Sensor technology: Differential pressure
 Range: 4,5 Li.N./min and 3,0 Li.N./min
 Accuracy: ± 5 %

Oxygen (O₂) concentration in flue gas

Reading % of flue gas volume (dry conditions)
 Sensor technology electrochemical sensor
 Range 0.0 to 21,0 %
 Accuracy ± 0.3 % according to VDI 4206 - 1

Carbone monoxide (COV) in flue gas

Reading ppm of flue gas volume (dry conditions)
 Sensor technology electrochemical sensor
 Range 0 to 100,000 ppm, resolution 1 ppm (< 32,000 ppm), rest 10 ppm
 Accuracy ± 100 ppm (< 1.000 ppm), rest 10 % of reading according to VDI 4206 - 1

Draft (PD)

Reading Pascal
 Sensor technology Semiconductor
 Range 0.00 to ± 110.00 hPa, resolution 1 Pa
 Accuracy 3 Pa (< 100 Pa), 3 % of reading

Flue gas temperature (TA)

Reading °C
 Sensor technology Thermocouple (NiCr-Ni)
 Range -20.0 °C to 800.0 °C, resolution 0.1 °C
 Accuracy according to VDI 4206 Blatt 1

Calculated Values

mSt Total suspended particulate matter mass concentration in flue gas referred to the adjustable oxygen reference value in mg/m³
 Vol Sample volume in SL
 O₂ O₂ concentration in % given as 15 min average value
 CO_v CO concentration in ppm given as 15 min average value
 CO_n CO air free concentration in ppm referred to the adjustable oxygen reference value

Power Supply 230 V, 50 Hz, max. 1,200 W

Storage temperature -20 °C to +50 °C

Work temperature +5 °C to 40 °C

Weight approx. 15 kg

Dimensions 480 x 240 x 550 mm