

Wöhler SM 500 Suspended Particulate Analyzer



Technical data		
Suspended Particulate Matter concentration / Filter load (m_{stf}) in 15 min.	Reading	Filter load in mg
	Sensor technology	Real time digital mass scale
	Range	0...45 mg (equals 0 mg/m ³ to 1.000 mg/m ³ in flue gas)
	Accuracy	±0,3 mg
Sample rate (Vol _s)	Reading	Standard litre per minute (slpm)
	Sensor technology	Differential pressure
	Range	4,5 L _N /min and 3 L _N /min
	Accuracy	±5 %
Oxygen (O ₂) concentration in flue gas	Reading	% of flue gas volume (dry conditions)
	Sensor technology	Electrochemical sensor
	Range	0...21 %
	Accuracy	±0,3 % according to VDI 4206-1
Carbone monoxide (CO _v) in flue gas	Reading	ppm of flue gas volume (dry conditions)
	Sensor technology	Electrochemical sensor
	Range	0...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 (P _D)	Reading	Pascal
	Sensor technology	Semiconductor
	Range	0...±110 hPa, resolution 1 Pa
	Accuracy	3 Pa (<100 Pa), 3 % of reading
Flue gas temperature (T _A)	Reading	°C
	Sensor technology	Thermocouple (NiCr-Ni)
	Range	-20...800 °C, resolution 0,1 °C
	Accuracy	According to VDI 4206-1
Calculated Values	m_{st}	Total suspended particulate matter mass concentration in flue gas referred to the adjustable oxygen reference value in mg/m ³
	Vol	Sample volume in SL
	O ₂	O ₂ 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...50 °C	
Work temperature	5...40 °C	
Weight	approx. 15 kg	
Dimensions	480 x 240 x 550 mm	

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