Wöhler A 550 Flue Gas Analyzer

Technical Data		
Oxygen concentration (O_2) in flue gas	Display	Vol.-% referenced to dry flue gas
	Measurement principle	Electrochemical sensor
	Range	0…21 Vol.-%
	Accuracy	±0,3 Vol.-%
Carbon monoxide (CO_V 4.000 ppm) in flue gas	Display	Vol.-ppm referenced to dry flue gas
	Measurement principle	Electrochemical sensor, H_2-compensated
	Range	0…4.000 Vol.-ppm, resolution 1 Vol.-ppm
	Accuracy	±20 ppm (< 400 ppm), otherwise 5 % of measurement
Carbon monoxide (CO_V) in flue gas	Display	Vol.-ppm referenced to dry flue gas
	Measurement principle	Electrochemical sensor
	Range	0…35.000 Vol.-ppm, resolution 1 Vol.-ppm
	Accuracy	±100 ppm (< 1.000 ppm), otherwise 10 % of measurement (with H_2 < 5 % of measurement)
Carbon monoxide ($CO_{V\ high}$) in flue gas (optional)	Display	Vol.-ppm referenced to dry flue gas
	Measurement principle	Electrochemical sensor
	Range	0…100 Vol.-ppm, resolution 1 Vol.-ppm
	Accuracy	±100 ppm (< 1.000 ppm), otherwise 10 % of measurement (with H_2 < 5 % of measurement)
Nitric oxide concentration (NO_V) in flue gas (optional)	Display	Vol.-ppm referenced to dry flue gas
	Measurement principle	Electrochemical sensor
	Range	0…3.000 Vol.-ppm (continuously up to 1.000)
	Resolution	1 Vol.-ppm
	Accuracy	±5 Vol.-ppm (< 100 ppm), otherwise 5 % of readin
Nitrogen dioxide concentration (NO_2) in flue gas (optional)	Display	Vol.-ppm referenced to dry flue gas
	Measurement principle	Electrochemical sensor
	Range	0…1.000 Vol.-ppm (continuously up to 200), resolution 1 Vol.-ppm
	Accuracy	±5 Vol.-ppm (< 100 ppm), otherwise 5 % of measurement
Sulfur dioxide (SO_2) in flue gas (optional)	Display	Vol.-ppm referenced to dry flue gas
	Measurement principle	Electrochemical sensor
	Range	0…5.000 Vol.-ppm, resolution 1 Vol.-ppm
	Accuracy	±10 Vol.-ppm (0…200 ppm), otherwise 5 % of measurement
Chimney draught/differential pressure (P_D) with 4 Pa-Test	Display	Pascal
	Measurement principle	Semiconductor membrane
	Range	0…±110 hPa, resolution 0,1 Pa (< 1.000 Pa), otherwise 1 Pa, with ventilation loss measurement 0.01 Pa
	Accuracy	0,3 Pa (< 10 Pa), otherwise 3 % of measurement, Drift < 0,2 Pa in 5 minutes
Chimney draught/differential pressure (P_D)	Display	Pascal
	Measurement principle	Semiconductor membrane
	Range	0…±110 hPa, resolution 0,1 Pa
	Accuracy	2 Pa (< 40 Pa), otherwise 5 % of measurement
Flue gas temperature (T_A)	Display	°C
	Measurement principle	Thermoelement (NiCr-Ni)
	Range	-20…800 °C, resolution 0,1 °C
	Accuracy	0…133 °C: ±2 °C, 133…800 °C: ±1,5 % of measurement
Combustion air temperature (T_L)	Display	°C
	Measurement principle	Thermocouple (NiCr-Ni)
	Range	-20…100 °C, resolution 0,1 °C
	Accuracy	±1°C
Wood moisture	Display	Mass of water referenced to dry fuel mass
	Measurement principle	Electrical resistance measurement
	Range	10…40 %, resolution 0,1 %
	Accuracy	±40 % of measurement tested to VDI 4206 Part 4
Power supply	Lithium-Ion, rechargeable battery 3,6 V, 6.700 mAh, charges via USB	
Battery operating time	approx. 12 h (depends on operating status and display illumination)	
Storage temperature	-20…50 °C	
Operating temperature	5…40 °C maintain stated accuracy	
Weight	1.250 g	
Dimensions	220 x 160 x 55 mm (without probe)	
Length of cable-hose	1,7 m	

WÖHLER

Wöhler Technik GmbH
Headquarters Germany
Wöhler-Platz 1 · 33181 Bad Wünnenberg
www.woehler-international.com

TES Thomson Environmental Systems
thomsongroup.com.au

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