

# Wöhler A 450 Flue Gas Analyzer



Technical Data		
Oxygen concentration (O <sub>2</sub> ) 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 <sub>V</sub> 10.000 ppm) in flue gas	Display	Vol.-ppm referenced to dry flue gas
	Measurement principle	Electrochemical sensor, H <sub>2</sub> -compensated
	Range	0...10.000 Vol.-ppm, resolution 1 Vol.-ppm
	Accuracy	±20 ppm (< 400 ppm), otherwise 5 % of measurement
Carbon monoxide (CO <sub>V</sub> 100.000 ppm) in flue gas	Display	Vol.-ppm referenced to dry flue gas
	Measurement principle	Electrochemical sensor, not H <sub>2</sub> -compensated
	Range	0...100.000 Vol.-ppm, resolution 1 Vol.-ppm
	Accuracy	±100 ppm (< 1.000 ppm), otherwise 10 % of measurement (with H <sub>2</sub> < 5 % of measurement)
Carbon monoxide (CO <sub>V</sub> 5.000 ppm) in flue gas	Display	Vol.-ppm referenced to dry flue gas
	Measurement principle	Electrochemical sensor, not H <sub>2</sub> -compensated
	Range	0...5.000 Vol.-ppm, resolution 1 Vol.-ppm
	Accuracy	±40 ppm (< 400 ppm), otherwise 10 % of measurement (with H <sub>2</sub> < 5 % of measurement)
Hydrogen concentration (H <sub>2</sub> 2.000 ppm) in flue gas	Display	Vol.-ppm referenced to dry flue gas
	Measurement principle	Electrochemical sensor
	Range	0...2.000 Vol.-ppm, resolution 1 Vol.-ppm
	Accuracy	±40 ppm (< 400 ppm), otherwise 10 % of measurement (between 15...40 °C)
Nitric oxide concentration (NO <sub>V</sub> ) in flue gas (optional)	Display	Vol.-ppm referenced to dry flue gas
	Measurement principle	Electrochemical sensor
	Range	0...3.000 Vol.-ppm, resolution 1 Vol.-ppm
	Accuracy	±5 Vol.-ppm (< 100 ppm), otherwise 5 % of measurement
Chimney draught/differential pressure (P <sub>D</sub> ) 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 <sub>D</sub> )	Display	Pascal
	Measurement principle	Semiconductor membrane
	Range	0...±110 hPa, resolution 1 Pa
	Accuracy	2 Pa (< 40 Pa), otherwise 5 % of measurement
Flue gas temperature (T <sub>fl</sub> )	Display	°C
	Measurement principle	Thermoelement (NiCr-Ni)
	Range	-20...800 °C, resolution 0,1 °C
	Accuracy	-20...133 °C: ±2 °C, 133...800 °C: ±1,5 % of measurement
Combustion air temperature (T <sub>l</sub> )	Display	°C
	Measurement principle	Thermoelement (NiCr-Ni)
	Range	-20...100 °C, resolution 0,1 °C
	Accuracy	±1 °C
Power supply	Wöhler A 450	Lithium-Ion, rechargeable battery 3,6 V, 6.700 mAh, charges via USB
Battery operating time	Wöhler A 450 L/ECO	Lithium-Ion, rechargeable battery 3,6 V, 2.250 mAh, charges via USB
	Wöhler A 450	approx. 17 h (depends on operating status and display illumination)
Charging time with fully discharged battery	Wöhler A 450 L/ECO	approx. 6 h (depends on operating status and display illumination)
	Wöhler A 450	ca. 7 h
Storage temperature		-20...50 °C
Operating temperature		5...40 °C for the observance of accuracies
Weight		620 g (fully equipped incl. NO-sensor)
Dimensions		160 x 110 x 45 mm (without probe)
Length of cable-hose		1,5 m

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