

Wöhler A 550 Industrial Flue Gas Emissions Analyzer

TECHNICAL DATA

Oxygen concentration (O₂) in flue gas

Display	Volume % referenced to dry flue gas
Measurement principle	Electrochemical sensor
Range	0.0-21.0 vol. %
Accuracy	± 0.3 vol.-%

Carbon monoxide (CO 100,000) in flue gas

Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor
Range	0-100,000 vol. ppm; resolution 1 vol. ppm
Accuracy	± 100 vol. ppm (< 1,000 vol. ppm), otherwise 10% of reading (with H ₂ < 5 % of reading)

Nitric oxide concentration (NO) in flue gas

Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor
Range	0-3,000 vol. ppm (continuously up to 1,000); resolution 0.1 vol. ppm (< 1,000 vol. ppm), otherwise 1 vol. ppm
Accuracy	± 5 vol. ppm (< 100 vol. ppm), otherwise 5 % of reading

Nitrogen dioxide concentration (NO₂) in flue gas

Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor
Range	0-1,000 vol. ppm (continuously up to 200 vol. ppm); resolution 0.1 vol. ppm
Accuracy	± 5 vol. ppm (< 100 ppm), otherwise 5% of reading

Sulfur dioxide concentration (SO₂) in flue gas

Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor
Range	0-5,000 vol. ppm; resolution 0.1 vol. ppm (< 1,000 vol. ppm), otherwise 1 vol. ppm
Accuracy	± 10 vol. ppm (< 200 vol. ppm), otherwise 5% of reading

Differential pressure (P_D)

Display	Pascal
Measurement principle	Semi-conductor diaphragm
Range	0.00 to ± 110.00 hPa; resolution 0.1 Pa (< 1,000 Pa), otherwise 1 Pa
Accuracy	0.3 Pa (< 10.0 Pa), otherwise 3% of reading

Flue gas temperature (T_g)

Display	°C
Measurement principle	Thermocouple (NiCr-Ni) (NiCr-Ni)
Range	-20.0 °C to 800 °C; resolution 0.1 °C
Accuracy	0-133 °C: ± 2°C 133-800 °C: ± 1.5 % of reading

Combustion air temperature (T_A)

Display	°C
Measurement principle	Thermocouple (NiCr-Ni)
Range	-20.0 °C to 100 °C; resolution 0.1 °C
Accuracy	± 1°C

Power supply Lithium-Ion, rechargeable battery 3.7 V, 5800 mAh, charges via USB

Battery operating time Approx. 7 h (depends on operating status and display illumination)

Storage temperature -20 °C to +50 °C

Operating temperature +5-40 °C to maintain stated accuracy

Weight 1,250 g

Dimensions 220 x 160 x 55 mm (without probe)

Length of cable-hose: 1,700 mm