

Wohler 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 H₂ < 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