

Wohler A 550 Industrial Flue Gas Emissions Analyzer

TECHNICAL DATA

Oxygen concentration (O_2) 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 (NO_2) 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 (SO_2) 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_p)

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