

# Wohler A 550 Industrial Flue Gas Emissions Analyzer



## TECHNICAL DATA

### Oxygen concentration (O<sub>2</sub>) 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<sub>2</sub> < 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<sub>2</sub>) 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<sub>2</sub>) 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<sub>d</sub>)

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<sub>g</sub>)

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<sub>a</sub>)

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



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