

# Wöhler A 550 Flue Gas 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<sub>v</sub> 4000 ppm) in flue gas (Wöhler A 550)

Display.....Volume ppm referenced to dry flue gas  
 Measurement principle .....Electrochemical sensor  
 Range.....0-4,000 vol. ppm; resolution 1 vol. ppm  
 Accuracy.....±20 ppm (< 400 ppm), otherwise 5% of reading

### Carbon monoxide (CO<sub>v</sub>) in flue gas (Wöhler A 550 L)

Display.....Volume ppm referenced to dry flue gas  
 Measurement principle .....Electrochemical sensor  
 Range.....0-35,000 vol. ppm; resolution 1 vol. ppm  
 Accuracy.....± 100 ppm (< 1,000 ppm),  
 otherwise 10% of reading (with H<sub>2</sub> < 5% of reading)

### Carbon monoxide (CO<sub>v high</sub>) in flue gas (optional)

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

### Nitric oxide concentration (NO<sub>v</sub>) in flue gas (optional)

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

### Nitrogen dioxide concentration (NO<sub>2</sub>) in flue gas (optional)

Display.....Volume ppm referenced to dry flue gas  
 Measurement principle .....Electrochemical sensor  
 Range.....0-1000 vol. ppm (continuously up to 200); resolution 1 vol. ppm  
 Accuracy.....±5 vol. ppm (< 100 ppm), otherwise 5 % of reading

### Sulfur dioxide (SO<sub>2</sub>) in flue gas (optional)

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

### Chimney draught / differential pressure (PD) with 4 Pa test (Wöhler A 550)

Display.....Pascal  
 Measurement principle .....Semi-conductor diaphragm  
 Range.....0.00 to ± 110.00 hPa; resolution 0.1 Pa (< 1000.0 Pa),  
 otherwise 1 Pa, with ventilation loss measurement 0.01 Pa  
 Accuracy.....0.3 Pa (< 10.0 Pa), otherwise 3 % of reading  
 Drift < 0.2 Pa in 5 minutes

### Chimney draught / differential pressure (PD) (Wöhler A 550 L)

Display.....Pascal  
 Measurement principle .....Semi-conductor diaphragm  
 Range.....0.00 to ± 110.00 hPa; resolution 1 Pa  
 Accuracy.....2 Pa (< 40 Pa), otherwise 5% 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

### Wood moisture

Display.....Mass of water referenced to dry fuel mass  
 Measurement principle .....Electrical resistance measurement  
 Range.....10.0-40.0%; resolution 0.1%  
 Accuracy.....±40% of reading tested to VDI 4206 Part 4

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

**Battery operating time**.....Approx. 12 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**.....1250 g

**Dimensions**.....220 x 160 x 55 mm (without probe)

**Length of cable-hose:**.....1700 mm