

# Wohler A 550 / A 500 L 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 4,000 ppm) in flue gas (Wohler 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) in flue gas (Wohler 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>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) 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 draft / differential pressure (PD) with 4 Pa test (Wohler A 550)

Display ..... inWC  
 Measurement principle ..... Semi-conductor diaphragm  
 Range ..... 0.00 to ± 44.16 inWC; resolution 0.004 inWC (< 4.01 inWC),  
 otherwise 0.004 inWC, with ventilation loss measurement 0.004 inWC  
 Accuracy ..... 0.0012 inWC (< 0.04 inWC), otherwise 3 % of reading  
 Drift < 0.00081 inWC in 5 minutes

### Chimney draft / differential pressure (PD) (Wohler A 550 L)

Display ..... inWC  
 Measurement principle ..... Semi-conductor diaphragm  
 Range ..... 0.00 to ± 44.16 inWC; resolution 0.004 inWC  
 Accuracy ..... 0.008 inWC (< 0.16 inWC), otherwise 5 % of reading

### Flue gas temperature (T<sub>g</sub>)

Display ..... °F  
 Measurement principle ..... Thermocouple (NiCr-Ni) (NiCr-Ni)  
 Range ..... -4 °F to 1,472 °F; resolution 32.18 °F  
 Accuracy ..... 32-271.4 °F: ± 35.6 °F  
 271.4-1,472 °F: ± 1.5 % of reading

### Combustion air temperature (T<sub>a</sub>)

Display ..... °F  
 Measurement principle ..... Thermocouple (NiCr-Ni)  
 Range ..... -4 °F to 212 °F; resolution 32.2 °F  
 Accuracy ..... ± 33.8 °F

### 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** ..... -4 °F to +122 °F

**Operating temperature** ..... +41-104 °F to maintain stated accuracy

**Weight** ..... 2.75 lbs

**Dimensions** ..... 8.7" x 6.3" x 2.2" (without probe)

**Length of cable-hose:** ..... 67"