

# 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"

