COMPACT AND RUGGED WITH CUTTING EDGE TECHNOLOGY.

Wohler A 450 Flue Gas Analyzer

The Measure of Technology
Wöhler A 450 Flue Gas Analyzer

The new compact class – sturdy and smart

A flue gas analyzer that offers all measurement and tuning functions. A small and lightweight flue gas analyzer enclosed in an eye-catching, sturdy housing. The Wöhler A 450 is a handheld device with user friendly touchscreen control, displays all measurement data on screen or connect and view on your smart devices.

Compact with a full range of functions
The Wöhler A 450 is a sturdy measuring device that combines solid workmanship with a clear color display. All measured values are displayed clearly at a glance. The Wöhler A 450 is a well rounded tool that offers flue gas analysis, draft measurement, burner tuning guide, adjustment tasks on gas and oil systems and even solid fuel fireplaces. The Wöhler A 450 device is compact and lightweight by design and is guaranteed to be user friendly. The menu consists of icons similar to those known from smartphones, you simply tap an icon to open the individual menu items.

Smart functions
In addition to the user-friendly convenience of the touchscreen, the Wöhler A 450 also offers other advantages that “smart devices” provide. You are able to transmit all measurement data to a mobile device (smart-phones, tablets by Android and iOS) via Wireless LAN. These devices can then display the measurements as numerical values or as a graph in the Wöhler A 450 app. The app gives technicians the option of reading measurements already taken and also the ability to take new measurements through the app. This proves to be beneficial when measuring at points with poor accessibility. The measurement data can be saved in different formats and sent to the customer by email.

ADVANTAGES

- Switch on – read off – done
- Rugged and compact analyzer that offers all measurement and tuning functions
- High-resolution 5" color touchscreen: 14 measured values available at a glance
- Future-proof network connectivity with Wireless LAN
- Wöhler A 450 app included

1) O₂ sensor 48 months, CO sensors 5 000 ppm 24 months; excludes thermocouples, rechargeable battery and optional NO sensor. For more information see our Terms and Conditions.
Wöhler A 450 Flue Gas Analyzer

Wöhler A 450 app: Displaying the measured data on a mobile device.

All measured values available at a glance with high-resolution display.

Printout of the measured data on site.

The tuning guide offers an advanced guidance to properly adjust the burner.

Simple maintenance – The condensate trap can easily be removed.

Sturdy and enclosed in a case.

Wöhler A 450 Flue Gas Analyzer

1) Oxygen sensor 48 months, CO sensors 5000 ppm 24 months; excludes thermocouples, rechargeable battery and optional NO sensor. For more information see our Terms and Conditions.
Do you prefer to use your smartphone or tablet for all your work? The Wohler A 450 app is exactly what you need for measuring and adjustment tasks. Available for both Android and iOS devices!

**ADVANTAGES**

- Remote control of measurements at locations where access is difficult
- Direct Wireless LAN connection to a smart device
- Data can be sent from smartphone or tablet by email
## TECHNICAL DATA

### Oxygen concentration (O₂) 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, 10,000 ppm) in flue gas
- **Display**: Volume ppm referenced to dry flue gas
- **Measurement principle**: Electrochemical sensor, not H₂ compensated
- **Range**: 0-10,000 vol. ppm; resolution 1 vol. ppm
- **Accuracy**: ± 0.20 ppm (< 400 ppm), otherwise 10% of reading (if H₂ < 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, resolution 1 vol. ppm
- **Accuracy**: ± 5 Vol.-ppm (< 100 ppm), otherwise 5% of reading

### Chimney draught / differential pressure (PD) (article 4520/4502)
- **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 (Tg)
- **Display**: °F
- **Measurement principle**: Thermocouple (NiCr-Ni)
- **Range**: 68-1472 °F
- **Accuracy**: ± 271.4 °F
  
  271.4-1472 °F: ± 1.5 % of reading

### Combustion air temperature (TA)
- **Display**: Fahrenheit
- **Measurement principle**: Thermocouple (NiCr-Ni)
- **Range**: 68-212 °F
- **Accuracy**: ± 1°F

### Power supply
- **Wohler A 450**: Lithium-Ion, rechargeable battery 3.7 V, 2,250 mAh, charges via USB

### Battery operating time
- **Wohler A 450**: approx. 6 h (depends on operating status and display illumination)

### Charging time
- **Wohler A 450**: approx. 3 h

### Storage temperature
- **-4-122 °F

### Weight
- **1.5 lbs.

### Dimension
- **6x4x1.5 inches

### Length of the probe hose
- **5 ft.

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**Test Equipment Depot - 800.517.8431**

99 Washington Street, Melrose, MA 02176

**TestEquipmentDepot.com**

TÜV test registered for 1st BImSchV (German Federal Emmission Control Act) and KÜO (German sweeping and inspection ordinance), for oil or gas firing installations to VDI 4206 Part 1 and DIN EN 50379 Part 2

O₂ sensor 48 months, CO sensors 5 000 ppm 24 months; excludes thermocouples, rechargeable battery and optional NO sensor. For more information see our Terms and Conditions.

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**Application**
- Residential flue gas analysis
- Service and maintenance tasks
- Determine flue gas loss and burner tuning
- Emmission control measurements (1st BImSchV)
- NO measurement (optional)
- Differential pressure / gas pressure measurement

**Functionality**
- Simple to use
- Large 5" color touchscreen: Displays up to 14 measurement readings
- Intuitive to operate via on-screen keyboard
- Graphic hotspot search

**Safety / reliability**
- 48 month warranty
- Effective condensate protection
- Multistage filter technology incl. water stop filter
- Electronic filter monitor with illuminated condensate trap
- Analyzer and sensor diagnostics
- Field replaceable sensors – user-friendly
- Rechargeable battery operating time: more than 6 h with lithium ion power
- Hose assembly – robust and flexible

**Data management**
- Store up to 1,000 customer records
- Data transmission by USB, Wireless LAN or infrared
- Wohler A 450 app included
## Product features

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* = included  |  optional = retrofit or upgrade

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Wöhler A 450 Flue gas analyzer
10,000 ppm

Basic set (ready to use)
Maintenance and setting tasks

Scope of delivery
Wöhler A 450 Flue Gas Analyzer
10,000 ppm CO sensor, not H2 compensated
Wireless LAN, USB and IR interfaces
Flue gas probe 10 in. with 5 ft. hose assembly
USB battery charger with micro USB cable
Rechargeable lithium ion battery, 3.6 V / 2250 mAh

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Sets & Accessories
Select a suitable accessory kit for your needs

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