COMPACT AND RUGGED WITH CUTTING EDGE TECHNOLOGY.

Wohler A 450 Flue Gas Analyzer

The Measure of Technology

Wohler 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 Wohler 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 Wohler 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 Wohler 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 Wohler 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 Wohler 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 Wohler 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

- Wohler A 450 app included

TOUCHSCREEN 5" | 48 MONTH WARRANTY DEVICE AND SENSORS[1] | CO 5 000 ppm[1] | PRINTER | USB

1.5 LBS | Wireless LAN TRANSMISSION | A 450 APP (for free) | CO AMBIENT

WÖHLER TUNING GUIDE | PC SOFTWARE

[1] O_2 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.

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

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

Printout of the measured data on site.

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

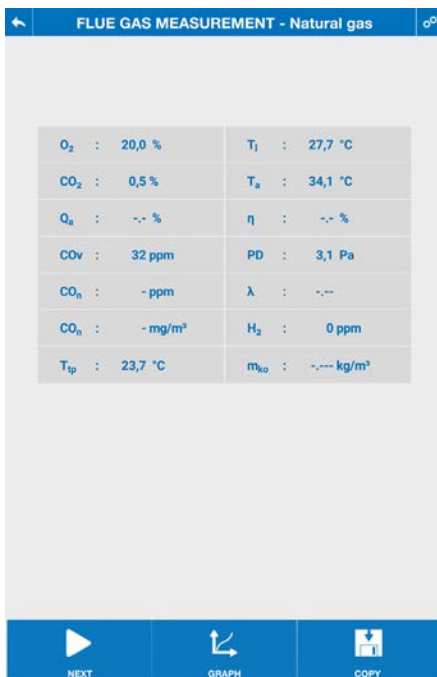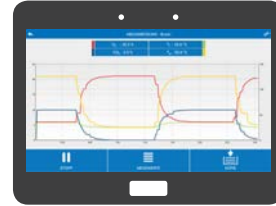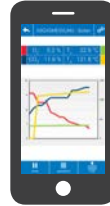Simple maintenance – The condensate trap can easily be removed.

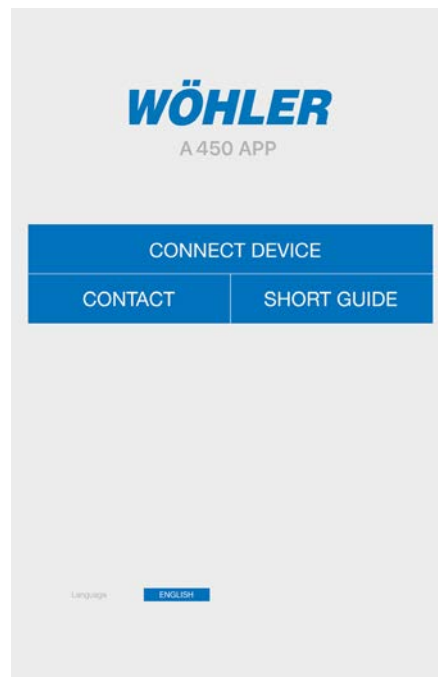Sturdy and enclosed in a case.

Wohler A 450 APP

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!

All measured values available at a glance.

Start screen of the Wohler A 450 app.
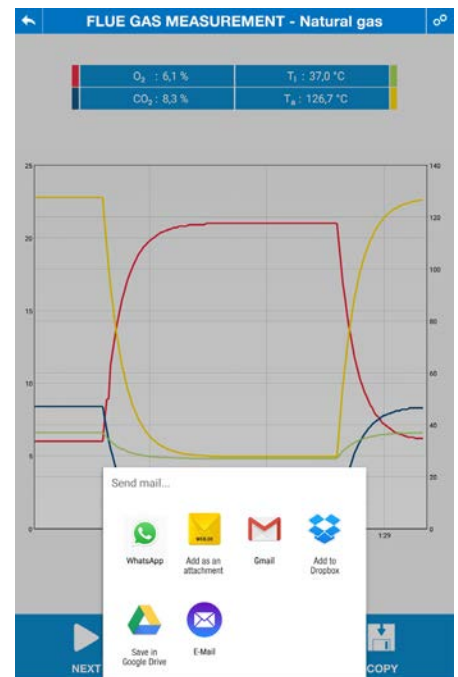
Sending the measurement data to customer.

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

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TECHNICAL DATA

Oxygen concentration (O_2) 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_v 10,000 ppm) in flue gas
Display ································· Volume ppm referenced to dry flue gas
Measurement principle ··········· Electrochemical sensor, not H_2 compensated
Range ······························· 0-10,000 vol. ppm; resolution 1 vol. ppm
Accuracy ····························· ±20 ppm (< 400 ppm), otherwise 10% of reading
(if H_2 < 5% of reading)

Nitric oxide concentration (NO_v) 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 (T_s)
Display ································· °F
Measurement principle ··········· Thermocouple (NiCr-Ni)
Range ······························· 68-1472 °F
Accuracy ····························· 0-271.4 °F
271.4-1472 °F: ± 1.5 % of reading

Combustion air temperature (T_A)
Display ································· Fahrenheit
Measurement principle ··········· Thermocouple (NiCr-Ni)
Range ······························· 68-212 °F
Fahrenheit ···························· ± 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

Operating temperature ········· 41-104 °F

Weight ···························· 1.5 lbs.

Dimension ························ 6x4x1.5 inches

Length of the probe hose ······ 5 ft.

⚒ 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[1]
· 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

TUV 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
[1] O_2 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.

⚙ Product features

	Wöhler A 450 Flue gas analyzer 10,000 ppm
APPLICATIONS (depends on accessories)	
Setting tasks gas/oil systems	•
Burner adjustment assistant	•
1st BImSchV	
KÜO	
4 Pa Test	
Heating check 2.0	
Possible sensors	3
FUNCTIONALITY	
5" color touchscreen	•
1,000 measurement data sets	•
Wireless LAN	•
USB & infrared	•
RELIABILITY	
48 month sensor and analyzer warranty[1]	CO-Sensor 48 month warranty
Device sensor diagnostics	•
Sensor replacement	•
Visual filter monitor	•
Rechargeable lithium ion battery	Up to 6 h operating time
SCOPE OF DELIVERY	
Pluggable flue gas probe 10" with 5' hose assembly	
Flue gas probe 10" with 5' hose assembly	•
CO sensor (48 month warranty)	10,000 ppm
O_2 sensor (48 month warranty)	0,0 ... 21,0 vol.-%
NO sensor	optional
Combustion air temperature probe	
USB battery charger	•

• = included | optional = retrofit or upgrade, contact us

[1] O_2 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.

Wohler A 450 Flue gas analyzer
10,000 ppm

Standard set (ready to use)

Maintenance and setting tasks

Scope of delivery

Wohler 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

PN: 8387

Sets & Accessories
Select a suitable accessory kit for your needs

Scope of delivery	Standard set Maintenance tasks **for Wohler A 450**	Advanced set Maintenance tasks **for Wohler A 450**	Professional set Maintenance tasks **for Wohler A 450**
Plastic case MAXI Wohler A 450	•	•	•
Combustion air temperature probe 11"		•	•
Magnetic mount	•	•	•
Clamping cone	•	•	•
PTFE cone		•	•
Water stop filter, 3x	•	•	•
Differential pressure measurement set		•	•
Wohler TD 100 fast thermal printer		•	•
Wohler RP 72 smoke test pump			•
Wohler A 450 PC software	•	•	•
Article no.	**8387**	**8389**	**8390**

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