

WÖHLER

EFFICIENT MEASUREMENT



Wöhler A 450 Flue Gas Analyser

Forward-thinking with cutting-edge technology



Made in Germany



Wöhler A 450 Flue Gas Analyser

The compact class – robust and smart

This is where Wöhler excels: A reasonably priced flue gas analyser that offers all measurement and setting functions. A small and lightweight flue gas analyser that impresses with its robust housing. A hand-held device with convenient touchscreen operation that also displays the measurement data on smart devices.

Compact with a full range of functions

The Wöhler A 450 is a robust measuring device that combines solid workmanship with a clear colour display. All measured values are shown here at a glance. It is a real all-rounder: Flue gas measurement, draught measurement, annular gap measurement, burner adjustment aid, adjustment work on gas/oil systems and even on solid fuel fireplaces. Typical Wöhler.

The device is compact and lightweight, so convenient handling is guaranteed. The operation is extremely simple: The menu is organised with icons, just like a smartphone. To access the individual menu items, the user simply needs to tap on the touch display.

Smart functions

In addition to the ease of use via the touch display, the Wöhler A 450 offers the advantages of smart devices: All measurement data can be transferred to a smartphone or tablet via WiFi (Android and iOS). There, the measured values are displayed in the Wöhler Flue Gas Analysis App either as numerical values or graphics. The app gives you even more options: You can start and stop the measurement via your end device. This is particularly useful for measuring points that are difficult to access. The measurement data can be saved in various formats and sent to your customer by e-mail.




5" touch display


48 months warranty ¹⁾


CO-Sensor up to 100,000 ppm ¹⁾


Printout on site


Burner setting aid


USB


WiFi


PC software


Flue Gas Analysis App

¹⁾ O₂ sensor and CO sensor 10,000 ppm
48 months, CO sensors 5,000 ppm and
100,000 ppm 24 months; excluding
thermocouple, rechargeable battery and
optional
NO sensor. For further information, please
refer to our General Terms and Conditions.



Tuning Guide: Graphic tuning guide for quick and reliable setting of the required value.



5" large colour touchscreen: All measurement and calculation values at a glance - Simple operation via touch display - Structured menu navigation.

Advantages

- ▶ CO sensor available between 5,000 and 100,000 ppm
- ▶ Robust all-rounder with all measuring and setting functions
- ▶ High-resolution 5" touch display with: 14 measured values at a glance
- ▶ Safety due to high CO measuring range
- ▶ TÜV-certified for measurements on combined heat and power plants even without additional accessories
- ▶ Future-proof networking thanks to WiFi
- ▶ Free Wöhler Flue Gas Analysis App for Android and iOS

Technical Data

Display

Touch display: 5"

Sensors

up to 3

O ₂ :	0...21 Vol. %
CO:	0...5,000 ppm 0...10,000 ppm 0...10,000 ppm H ₂ compensated 0...100,000 ppm
NO:	0...3,000 ppm

Power supply

Lithium-ion
rechargeable battery: 6 h service life
16 h service life

Weight

from 620 g

Safety

4 filter technology with filter monitoring

Application

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

Functionality

- ▶ Simple to use: Switch on – read off – done
- ▶ Large 5" colour touchscreen: Displays up to 14 measurement readings
- ▶ Easy to use with the on-screen keyboard
- ▶ Graphic hotspot search

Safety / Reliability

- ▶ 24 or 48 months warranty without maintenance agreement¹⁾
- ▶ Effective condensate protection
- ▶ Multistage filter technology incl. water stop filter
- ▶ Electronic filter monitor with illuminated condensate trap
- ▶ Analyser and sensor diagnostics
- ▶ Field replaceable sensors – user-friendly
- ▶ Rechargeable battery operating time: up to 17 hrs 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 infra-red
- ▶ Flue Gas Analysis App included

TÜV test registered for 1st BImSchV (German Federal Immission 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⁾ O₂ sensor and CO sensor 10,000 ppm 48 months, CO sensors 5,000 ppm and 100,000 ppm 24 months; excluding thermocouple, rechargeable battery and optional NO sensor. For further information, please refer to our General Terms and Conditions.

Special Features



Printout on site: With the Wöhler TD 100 Thermal Fast Printer, the measurement results can be printed out directly on site.



Easy maintenance: Condensate trap can easily be pulled out to change the cotton wool and water stop filter.

Wöhler Flue Gas Analysis App

Do you prefer to do everything with your smartphone or tablet? Then the Wöhler Flue Gas Analysis App is just the thing for your measurement and adjustment work.

- ▶ Remote control of measured values at measuring locations that are difficult to access
- ▶ Direct connection via WiFi to the smart device and future-proof internet access
- ▶ Measurement report can be sent from smartphone / tablet by e-mail and via messenger services



Basic Sets



	Wöhler A 450 L Flue Gas Analyser 5.000 ppm CO-Sensor	Wöhler A 450 L Flue Gas Analyser 100.000 ppm CO-Sensor	Wöhler A 450 Flue Gas Analyser 10.000 ppm CO-Sensor	Wöhler A 450 H Flue Gas Analyser 10.000 ppm CO-Sensor (H ₂ comp.)
Residential	●	●	●	●
Manifold and Differential Pressure	●	●	●	●
Wöhler Tuning Guide	●	●	●	●
Data Management	●	●	●	●
O ₂	0...21 %	0...21 %	0...21 %	0...21 %
CO Gas/oil systems	0...5,000 ppm	0...100,000 ppm	0...10,000 ppm	0...10,000 ppm H ₂ compensated
CO Solid fuel systems	0...5,000 ppm	0...100,000 ppm	0...10,000 ppm	0...10,000 ppm H ₂ compensated
NO	0...3,000 ppm optional	0...3,000 ppm optional	0...3,000 ppm optional	0...3,000 ppm optional
Flue gas temperature	-20...800 °C	-20...800 °C	-20...800 °C	-20...800 °C
Air temperature	-20...100 °C	-20...100 °C	-20...100 °C	-20...100 °C
Differential pressure	± 110 hPa	± 110 hPa	± 110 hPa	110 hPa
Warranty	2 years	2 years	4 years	4 years
Scope of delivery				
Wöhler A 450 L Flue Gas Analyser	●	●		
Wöhler A 450 Flue Gas Analyser			●	
Wöhler A 450 H Flue Gas Analyser				●
5,000 ppm CO-Sensor	●			
10,000 ppm CO-Sensor			●	
10,000 ppm CO-Sensor H ₂ compensated				●
100,000 ppm CO-Sensor		●		
WiFi, USB and IR interface	●	●	●	●
Flue gas probe 250 mm with 1.5 m hose	●	●	●	●
Cotton filters (25 pieces)	●	●	●	●
USB charger with micro USB cable	●	●	●	●
Lithium ion rechargeable battery 6 hrs service life	●	●		
Lithium ion rechargeable battery 16 hrs service life			●	●
Article no.	4503 J	4672 J	5181 J	7165 J
Optional with NO sensor	4703 J	4979 J	5341 J	7183 J

● = included

optional = for retrofitting or upgrading form the factory, please contact us

Accessory Sets



Scope of delivery

Threaded Cone stainless steel for probes Ø 8 mm, to stabilise the gas probe in the flue pipe

Servicebag incl. 1 water stop filter, 1 coarse filter, 25 wadding filters, silicone grease (6 g), various o-rings

Plastic case MIDI

Wöhler TD 100 Thermal Fast Printer, Infrared printer with 1 roll thermal paper and four batteries

10 rolls Thermal Paper for Wöhler TD 100 Thermal Fast Printer

Article no.







Kit Maintenance Tasks

Kit Maintenance Tasks




Scope of delivery	Kit Maintenance Tasks	Kit Maintenance Tasks
Threaded Cone stainless steel for probes Ø 8 mm, to stabilise the gas probe in the flue pipe	●	●
Servicebag incl. 1 water stop filter, 1 coarse filter, 25 wadding filters, silicone grease (6 g), various o-rings	●	●
Plastic case MIDI	●	●
Wöhler TD 100 Thermal Fast Printer, Infrared printer with 1 roll thermal paper and four batteries		●
10 rolls Thermal Paper for Wöhler TD 100 Thermal Fast Printer		●
Article no.	11371 J	11372 J





● = included




» Accessories





Documentation	Article no.
 Wöhler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper	4160 I
 Thermal Paper for Thermal Printer Wöhler TD 100 – 12 m 10 rolls	4145 I
 PC-Software Wöhler A 450 for online measurements, diagram functions and export to MS Excel Languages EN / FR / IT / CZ / NL / CN	4499 J
 PC-Software Wöhler A 450 for online measurements, diagram functions and export to MS Excel Languages EN / FR / IT / CZ / NL / CN	 

Documentation	Article no.
 Charger	5502 I

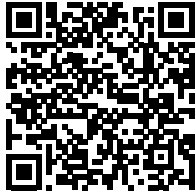
Transport	Article no.
 Plastic Case MIDI	6594 J
 Plastic Case MAXI	4704 J
 Backpack	5101 J

Probes	Article no.
 Air Temperature Plug	5517 J
 Probe 250 mm with 1.5 m hose	4498 J
 Air Temperature Probe 220 mm with 1,8 m Cable	6545 K
 Extension Cable 2.8 m	7772 J

Cones	Article no.
 Threaded cone for probes Ø 8 mm stainless steel, to stabilize the gas probe in the flue pipe	1235 K
 Clamping Cone for probes Ø 8 mm stainless steel, to stabilize the gas probe in the flue pipe	2494 K
 PTFE Cone for air temp. probes Ø 8 mm to stabilize air temperature probes in openings Ø 10 - 15 mm	2463 K

Consumables	Article no.
 Servicebag Wöhler A 450 Scope of delivery: 1 water stop filter, 1 coarse filter, 25 wadding filters, silicone grease (6 g), various o-rings	4734 K
 Wadding filters pack with 25 pieces	4286 K
 Wadding filters pack with 150 pieces	4288 K
 Water Stop Filters 3 pieces	9621 K

Sensors field replaceable	Article no.
O ₂ -Sensor 0...21 Vol. %	8963 C
CO-Sensor 5,000 ppm	8964 C
10,000 ppm	8967 C
10,000 ppm H ₂ compensated	8966 C
100,000 ppm	8965 C
NO-Sensor 3,000 ppm	8969 C
Checking Charge Pre- and final inspection, calibration and adjustment	439 X



Scan the QR code and find out more!

WÖHLER

Wöhler Technik GmbH
Headquarters Germany
Wöhler-Platz 1 · 33181 Bad Wünnenberg
www.woehler-international.com