

WÖHLER



WÖHLER A 450 FLUE GAS ANALYZER

Compact, rugged, loaded with smart functions.

The Measure of Technology



Made in
Germany

Wöhler A 450 Flue Gas Analyzer

The new compact class – robust and smart

This is where Wöhler excels: A reasonably priced flue gas analyzer that offers all measurement and tuning functions. A small and lightweight flue gas analyzer enclosed in an eye-catching, robust housing. The Wöhler A 450 is a handheld device with a user friendly touchscreen. Simply display all measurement data on the large screen, or connect the device and view the results on your mobile devices.

Compact with a full range of functions

The Wöhler A 450 is a robust 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 measurements such as flue gas analysis, draft measurement, burner tuning guide, adjustment tasks on gas and oil systems and even solid fuel fireplaces. Typical Wöhler.

In true Wöhler fashion, the device is compact and lightweight by design and is guaranteed to be user friendly. Intuitively easy to use: The menu consists of icons similar to that known from smartphones. The user simply taps 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 the advantages that smart devices provide: You are able to transmit all measurement data to a mobile devices (smart-phones, tablets by Android and iOS) per 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 particularly practical when measuring at spots with poor accessibility. The measurement data can be saved in different formats and can be sent to the customer by email.



- ▶ 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 for Android and iOS

¹⁾ Wöhler A 450 L: 24 months; A 450 / A 450 H: 48 months; CO sensors 5,000 ppm: 48 months excludes thermocouples, rechargeable battery and optional NO Sensor. For more information see our Terms and Conditions.



5" large color touchscreen
All measured values available at a glance thanks to high-resolution display.



Wöhler A 450 App (Android & iOS)
Displaying the measured data on a mobile device.



All values at a glance
The tuning guide offers an advanced guidance to the technician to properly adjust the burner.



Interface to the printer
Printout of the measured data on site.



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



Perfect size
Compact and light in a plastic case.

✂ 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" color touchscreen: Displays up to 14 measurement readings
- ▶ Intuitive to operate via on-screen keyboard
- ▶ Graphic hotspot search

🔑 Safety / Reliability

- ▶ 24 or 48 months guarantee without maintenance agreement¹
- ▶ 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: up to 17 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
- Wöhler A 450 app included

TUV 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⁾ Wöhler A 450 L: 24 months; A 450 / A 450 H: 48 month; CO sensors 5,000 ppm: 48 months excludes thermocouples, rechargeable battery and optional NO Sensor. For more information see our Terms and Conditions.

Technical data

Display	5" color touchscreen	
Sensors	up to 3	
	O ₂	0...21 %
	CO _v	0...5,000 Vol. ppm
		0...10,000 Vol. ppm
		0...10,000 Vol. ppm, H ₂ compensated
	NO _v	0...3.000 Vol. ppm
Power supply	Lithium-Ion, rechargeable battery 3.7 V, 2,250 mAh, charges via USB	
Battery operating time	Wöhler A 450 L: Approx. 6 h Wöhler A 450 / A 450 H: Approx. 17 h (depends on operating status and display illumination)	
Weight	620 g (with NO sensor included)	

Detailed technical data can be found under www.woehler-international.com/P_16430.dl



Wöhler A 450 APP

Do you prefer to do everything with your smartphone or tablet? Then the Wöhler A 450 App is exactly the right choice for your measuring and adjustment work. No matter if you are using an Android or iOS device.



Homepage of the Wöhler A 450 App



Display of all measured values at a glance



Dispatch of measurement data to the customer

- ▶ Remote control of measurements at locations where access is difficult
- ▶ Direct Wireless LAN connection to the smart device – future-proof connectivity
- ▶ Data can be sent from smartphone/tablet by email



Product features

Article no.	4503 J	4672 J	5181 J	7165 J
	Wöhler A 450 L Flue Gas Analyzer 5,000 ppm	Wöhler A 450 L Flue Gas Analyzer 100,000 ppm	Wöhler A 450 Flue Gas Analyzer 10,000 ppm	Wöhler A 450 H Flue Gas Analyzer 10,000 ppm
Applications (depends on accessories)				
Setting tasks gas/oil systems	•	•	•	•
Burner adjustment assistant	•	•	•	•
Possible sensors	3	3	3	3
Functionality				
5" color touchscreen	•	•	•	•
1,000 measurement data sets	•	•	•	•
Wireless LAN	•	•	•	•
USB & infrared	•	•	•	•
Reliability				
Warranty	24 months	24 months	48 months	48 months
Device sensor diagnostics	•	•	•	•
Sensor replacement	•	•	•	•
Visual filter monitor	•	•	•	•
Rechargeable lithium ion battery	up to 6 h operating time	up to 6 h operating time	up to 17 h operating time	up to 17 h operating time
Scope of delivery				
CO sensor	5,000 ppm	100,000 ppm	10,000 ppm	10,000 ppm (H ₂ compensated)
O ₂ sensor	0...21 %	0...21 %	0...21 %	0...21 %
NO sensor	optional 3,000 ppm	optional 3,000 ppm	optional 3,000 ppm	optional 3,000 ppm
Combustion air temperature probe			•	•
USB battery charger	•	•	•	•

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

Wöhler A 450 Flue Gas Analyzer	
1 Device - different versions	
Wöhler A 450 L – 5,000 ppm Wöhler A 450 L – 100,000 ppm Wöhler A 450 – 10,000 ppm Wöhler A 450 H – 10,000 ppm, H ₂ compensated	

Basic sets



		Wöhler A 450 L Flue Gas Analyzer 5,000 ppm CO	Wöhler A 450 L Flue Gas Analyzer 5,000 ppm CO 3,000 ppm NO	Wöhler A 450 L Flue Gas Analyzer 100,000 ppm CO	Wöhler A 450 L Flue Gas Analyzer 100,000 ppm CO 3,000 ppm NO
Scope of delivery	5,000 ppm CO sensor	•	•		
	100,000 ppm CO sensor			•	•
	3,000 ppm NO sensor		•		•
	Flue gas probe 250 mm with 1.5 m hose assembly	•	•	•	•
	Wireless LAN, USB and IR interfaces	•	•	•	•
	USB battery charger with micro USB cable	•	•	•	•
	Rechargeable Lithium-Ion battery, 3.6 V / 2,250 mAh	•	•	•	•
	25 cotton filters	•	•	•	•
	Article no.	4503 J	4703 J	4672 J	4979 J



		Wöhler A 450 Flue Gas Analyzer 10,000 ppm CO (H ₂ compensated)	Wöhler A 450 Flue Gas Analyzer 10,000 ppm CO (H ₂ compensated) 3,000 ppm NO	Wöhler A 450 H Flue Gas Analyzer 10,000 ppm CO	Wöhler A 450 H Flue Gas Analyzer 10,000 ppm CO 3,000 ppm NO
Scope of delivery	10,000 ppm CO sensor (H ₂ compensated)	•	•		
	10,000 ppm CO sensor			•	•
	3,000 ppm NO sensor		•		•
	Wireless LAN, USB and IR interfaces	•	•	•	•
	Flue gas probe 250 mm with 1.5 m hose assembly	•	•	•	•
	USB battery charger with micro USB cable	•	•	•	•
	Rechargeable Lithium-Ion battery, 3.6 V / 6,700 mAh	•	•	•	•
	25 cotton filters	•	•	•	•
	Article no.	5181 J	5341 J	7165 J	7183 J

• = included

Standard sets

		Wöhler A 450 L Flue Gas Analyzer	Wöhler A 450 L Flue Gas Analyzer	Wöhler A 450 L Flue Gas Analyzer	Wöhler A 450 L Flue Gas Analyzer
Scope of delivery	Flue Gas Analyzer	4503 J	4703 J	4672 J	4979 J
	Case Midi	•	•	•	•
	Cone	•	•	•	•
Article no.		5102 J	5709 J	5158 J	5166 J

		Wöhler A 450 Flue Gas Analyzer	Wöhler A 450 Flue Gas Analyzer	Wöhler A 450 H Flue Gas Analyzer	Wöhler A 450 H Flue Gas Analyzer
Scope of delivery	Flue Gas Analyzer	5181 J	5341 J	7165 J	7183 J
	Case Midi	•	•	•	•
	Cone	•	•	•	•
Article no.		5189 J	5343 J	7166 J	7184 J

Professional sets

		Wöhler A 450 L Flue Gas Analyzer	Wöhler A 450 L Flue Gas Analyzer	Wöhler A 450 L Flue Gas Analyzer	Wöhler A 450 L Flue Gas Analyzer
Scope of delivery	Flue Gas Analyzer	4503 J	4703 J	4672 J	4979 J
	Case Maxi	•	•	•	•
	Wöhler TD 100 Thermal Fast Printer	•	•	•	•
	Thermal Paper	•	•	•	•
	Temperature Probe	•	•	•	•
	Cone for Temperature Probe	•	•	•	•
	Cone	•	•	•	•
	Article no.		5157 J	5710 J	5159 J

		Wöhler A 450 Flue Gas Analyzer	Wöhler A 450 Flue Gas Analyzer	Wöhler A 450 H Flue Gas Analyzer	Wöhler A 450 H Flue Gas Analyzer
Scope of delivery	Flue Gas Analyzer	5181 J	5341 J	7165 J	7183 J
	Case Maxi	•	•	•	•
	Wöhler TD 100 Thermal Fast Printer	•	•	•	•
	Thermal Paper	•	•	•	•
	Temperature Probe	•	•	•	•
	Cone for Temperature Probe	•	•	•	•
	Cone	•	•	•	•
	Article no.		5340 J	5345 J	7185 J

• = included

Order Form

Product	Basic	Standard	Professional	Qty.
Wöhler A 450 L – CO 5,000 ppm	<input type="checkbox"/> 4503 J	<input type="checkbox"/> 5102 J	<input type="checkbox"/> 5157 J	
Wöhler A 450 L – CO 5,000 ppm with NO	<input type="checkbox"/> 4703 J	<input type="checkbox"/> 5709 J	<input type="checkbox"/> 5710 J	
Wöhler A 450 L – CO 100,000 ppm	<input type="checkbox"/> 4672 J	<input type="checkbox"/> 5158 J	<input type="checkbox"/> 5159 J	
Wöhler A 450 L – CO 100,000 ppm with NO	<input type="checkbox"/> 4979 J	<input type="checkbox"/> 5166 J	<input type="checkbox"/> 5179 J	
Wöhler A 450 – CO 10,000 ppm	<input type="checkbox"/> 5181 J	<input type="checkbox"/> 5189 J	<input type="checkbox"/> 5340 J	
Wöhler A 450 – CO 10,000 ppm with NO	<input type="checkbox"/> 5341 J	<input type="checkbox"/> 5343 J	<input type="checkbox"/> 5345 J	
Wöhler A 450 H – CO 10,000 ppm	<input type="checkbox"/> 7165 J	<input type="checkbox"/> 7166 J	<input type="checkbox"/> 7185 J	
Wöhler A 450 H – CO 10,000 ppm with NO	<input type="checkbox"/> 7183 J	<input type="checkbox"/> 7184 J	<input type="checkbox"/> 7186 J	

Billing address/customer		Delivery address (if different to billing address)							
Company	_____	Company	_____						
Name	_____	Name	_____						
Street/house no.	_____	Street/house no.	_____						
ZIP code/City	_____	ZIP code/City	_____						
Country	_____	Country	_____						
Telephone	_____	Fax	_____						
Mobile	_____	E-Mail	_____						
Customer number	<table border="1" style="display: inline-table; width: 150px; height: 20px;"> <tr> <td style="width: 25px;"></td> <td style="width: 25px;"></td> <td style="width: 25px;"></td> <td style="width: 25px;"></td> <td style="width: 25px;"></td> <td style="width: 25px;"></td> </tr> </table>								
Date	_____	Signature or company stamp	_____						

WÖHLER

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Your contact