new version





WÖHLER A 550 INDUSTRIAL FLUE GAS ANALYZER

The high-end measuring device

The Measure of Technology

Wöhler A 550 INDUSTRIAL Flue Gas Analyzer

Portable Flue Gas Analyzer with superior accuracy

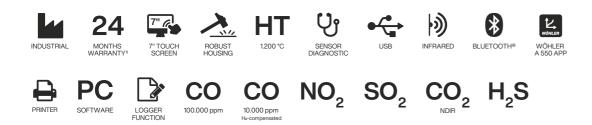
Built for the toughest environments and the most difficult conditions, but as handy as a smartphone – that's the all new Wöhler flue gas analyzer Wöhler A 550 INDUSTRIAL. From coal power plants to high temperature industrial processes, the Wöhler A 550 INDUSTRIAL will always provide measurement results at the highest accuracy.

No matter how you look at it, the new Wöhler A 550 INDUSTRIAL really is a "nifty piece of equipment": The individual functions can be launched as intuitively as using a smartphone via the large 7" color touchscreen. And the brightly lit monitor can be read anywhere. The large screen, the clear arrangement and the graphical presentation of readings allow excellent readability.

Acquiring measurement values is as easy as could be. The analyzer can be equipped with up to 5 sensors at a time, choosing from a wide range, such as NO_2 , SO_2 , NO, CO_2 NDIR and H_2S . Always on board are O_2 and COwith a range up to 100.000 ppm. So you will not miss any application. There are a number of interfaces available to transfer data: USB, infrared and Bluetooth[®]. And with the Wöhler TD 100 Thermal Fast Printer you can print out the readings on-site. The new battery-driven peltier cooler ensures both, accurate NO_x and SO_x readings and off-grid flexibility. The optional stainless steel sinter-filter protects the device against industrial dust loads. A broad variety of different sample probe lenghts offers the opportunity to take emission measurements in difficult-to-reach locations.

To measure flue gas velocity and flow rate the Wöhler A 550 INDUSTRIAL is equipped with a dual port digital pressure sensor. S-Tubes and Prandl-probes are available in different lengths and dimensions.

With our new high temperature probe you can perform measurements in environments with a temperature up to 1.200 °C. It comes with a sinter-filter for the worst environments and can be extended from 1 meter to 2 meters. At both lengths it can be equipped with a thermo couple for in-stack temperature measurements.



- ▶ NO_v and SO_v measurement with 0,1 ppm resolution
- ▶ High temperature probe up to 1.200 °C with in-stack sinter-filter
- Battery-driven peltier cooler optimal gas preparation for accurate measurements
- High-power sample pump for differential pressures up to 300 mbar
- Built-in logger function for long term measurements with user selectable configuration
- Up to 5 Sensors at a time, choice of 8 parameters in total

The all new Wöhler A 550 INDUSTRIAL Flue Gas Analyzer: Built for the toughest environments!

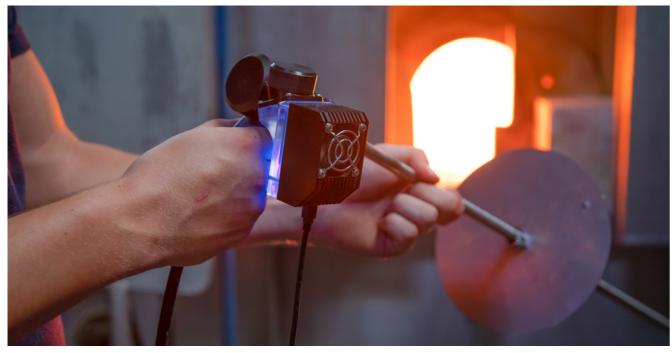
Rugged and robust while offering most accurate readings. Highly flexible for a huge range of applications.





The Wöhler Peltier Cooler

Ensuring most accurate readings without limiting your flexibility



Clean job

Once attached the flue gas will pass through and will be dried completely. This way only clean and dry flue gas enters the device, ensuring accurate results.



Every detail considered Life ain't always easy - our new Peltier cooler makes it easy and offers a solution for every tricky situation.



Highly flexible No matter how - top down, or bottom up - with the included adapter there are no limitations in your applications.

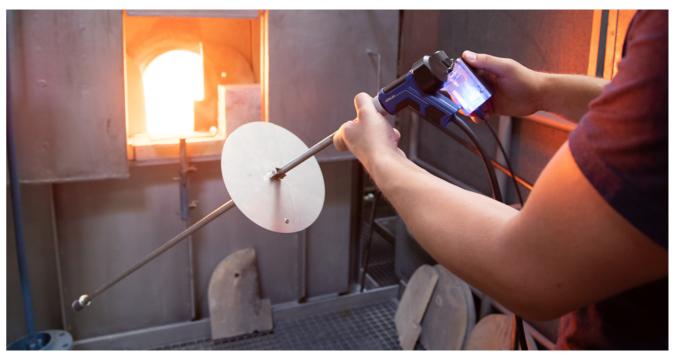
Measurements up to 1.200 °C

Our new high temperature probe offers a solution for every application



Measuring at different spots It's up to you: Simply extend the probe from 1 meter to 2 meters if necessary. At both lengths it can be equipped with a thermo couple

for temperature measurements.



New heat protection shield Easy to attach: protects you and your device when measuring at high temperature spots



Sinter-filter for clean measurements Tough environment? Heavy dust load? No problem! Our high temperature sinter-filter will guarantee clean measurements.

Technical data Sensors

Technical data Sensors		
Oxygen concentration (O ₂)	Display	Volume % referenced to dry flue gas
in flue gas	Measurement principle	Electrochemical sensor
	Range	021 Vol. %
	Accuracy	±0,3 Vol. %
Carbon monoxide	Display	Volume ppm referenced to dry flue gas
(CO 100.000 ppm)	Measurement principle	Electrochemical sensor
n flue gas	Range	0100.000 Vol. ppm; resolution 1 Vol. ppm
	Accuracy	± 100 Vol. ppm (< 1.000 Vol. ppm), otherwise 10 $\%$ of reading (with $\rm H_{_2} < 5$ $\%$ of reading)
Carbon monoxide	Display	Volume ppm referenced to dry flue gas
CO 10.000 ppm H _a -compensated)	Measurement principle	Electrochemical sensor, H ₂ -compensated
n flue gas	Range	010.000 Vol. ppm; resolution 1 Vol. ppm
	Accuracy	±20 Vol. ppm (< 400 Vol. ppm), otherwise 5 % of reading
Nitric oxide concentration (NO)	Display	Volume ppm referenced to dry flue gas
n flue gas	Measurement principle	Electrochemical sensor
	Range	03.000 Vol. ppm (continuously up to 1.000); resolution 0,1 Vol. ppm (< 1.000 Vol. ppm), otherwise 1 Vol. ppm
	Accuracy	±5 Vol. ppm (< 100 Vol. ppm), otherwise 5 % of reading
Nitrogen dioxide concentration	Display	Volume ppm referenced to dry flue gas
(NO_2) in flue gas	Measurement principle	Electrochemical sensor
	Range	01.000 Vol. ppm (continuously up to 200 Vol. ppm); resolution 0,1 Vol. ppm
	Accuracy	± 5 Vol. ppm (< 100 ppm), otherwise 5 % of reading
Sulfur dioxide concentration	Display	Volume ppm referenced to dry flue gas
(SO_2) in flue gas	Measurement principle	Electrochemical sensor
	Range	05.000 Vol. ppm; resolution 0,1 Vol. ppm (< 1.000 Vol. ppm), otherwise 1 Vol. ppm
	Accuracy	±10 Vol. ppm (< 200 Vol. ppm), otherwise 5 % of reading
CO ₂ NDIR	Display	Carbon dioxide concentration
	Measurement principle	NDIR
	Range	040 Vol. %
	Accuracy	06 Vol. %: ±0,3 Vol. % 640 Vol. %: ±5 % of reading
H ₂ S	Display	Volume ppm referenced to dry flue gas
	Measurement principle	Electrochemical sensor
	Range	0350 ppm
	Accuracy	040 ppm: ±2 ppm 40350 ppm: ±5 % of reading
Differential pressure (P_D)	Display	Pascal
	Measurement principle	Semi-conductor diaphragm
	Range	0±110 hPa; resolution 0,1 Pa (< 1.000 Pa), otherwise 1 Pa
	Accuracy	0,3 Pa (< 10 Pa), otherwise 3 % of reading
Flue gas temperature (T _s)	Display	٥
	Measurement principle	Thermocouple (NiCr-Ni)
	Range	-20+800 °C; resolution 0,1 °C
	Accuracy	0133 °C: ±2 °C; 133800 °C: ±1,5 % of reading
Combustion air temperature (T_A)	Display	°C / °F
	Measurement principle	Thermocouple (NiCr-Ni)
	Range	-20+100 °C; resolution 0,1 °C
	Accuracy	±1 °C
	Available lengths	130 / 180 / 295 / 500 / 750 / 1.000 mm
Combustion air temperature (T_s)	Display	°C / °F
High temperature probe	Measurement principle	Thermocouple Type K (NiCr-Ni)
	Range	-20+1.200 °C
	Accuracy	-20+133 °C: ±2 °C; 1331.200 °C: ±1,5 % of reading

X Application

- For industrial heating systems
- For burner adjustment and determination of combustion loss
- For commercial and industrial applications
- In-stack sinter-filter for heavy dust loaded samples
- High temperature processes

Functionality

- ▶ Simple to use: Switch on read off done
- Large, color touchscreen: Displays up to 14 measurement and calculation values
- Intuitive to operate via on-screen keyboard
- Calibration in the flue gas pipe via fresh air pump
- Graphical hot spot search
- 24 month warranty without maintenance contract¹⁾

Safety / Reliability

- Effective dust and condensate protection
- Analyzer and sensor diagnostics
- Sensor replacement user-friendly
- Rechargeable battery: more than 7h with Lithium lon power
- Hose assembly robust and flexible

Data management

- ▶ 1.000 measurement records
- Compatible with the Wöhler A 550 App for Android
- Data transfer via USB, Bluetooth[®] or Infrared

Lithium-lon, rechargeable battery 3,7 V/6.700 mAh, charges via USB
Approx. 7 h (depends on operating status and display illumination)
-20+50 °C
540 °C to maintain stated accuracy
1.250 g
220 x 160 x 55 mm (without probe)
3 m

¹⁾ Except for thermocouples, rechargeable batteries and special sensors; for further information please see our Terms and Conditions

Wöhler A 550 App

Do you prefer to do everything with your Smartphone or tablet? Then the Wöhler A 550 App is just right for your measuring and setting tasks. This is for Android devices from version 4.1 onwards.

- Remote control of measured values in hard to reach measurement locations
- Direct connection via Bluetooth[®] to the Smart Device and future-proof internet compatibility
- Sending the measurement protocol from smartphone / tablet via e-mail and messenger services possible





All devices are equipped with cable hose 3 m, Bluetooth® / USB / IR, Ambient Temperature Plug, Li-Ionen Battery / USB-Charger, waterstopfilter, coarse-filter, 25 wadding-filters, plastic Case MAXI







CO2 NDIR

NO₂

SO₂

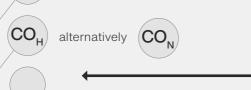
H₂S

NO

		Wöhler A 550 INDUSTRIAL Flue Gas Analyzer ready for measurement	Wöhler A 550 INDUSTRIAL Flue Gas Analyzer configurable basic version 100.000 ppm	Wöhler A 550 INDUSTRIAL Flue Gas Analyzer configurable basic version 10.000 ppm (H ₂ -compensated)
Scope of delivery	Wöhler A 550 INDUSTRIAL Flue Gas Analyzer	•	•	•
	Peltier cooler	٠	0	0
	0 ₂	٠	•	•
	CO _H 100.000 ppm	٠	•	0
	$CO_{_N}$ 10.000 ppm (H ₂ -compensated)	0	0	•
	NO	٠	0	0
	NO ₂	٠	0	0
	SO ₂	•	0	0
	CO ₂ NDIR	0	0	0
	H ₂ S	0	0	0
	Gas probe 1.000 mm with stainless steel sinter-filter (up to 800 °C)	٠	0	0
	High temperature probe 1.000 mm for measurements (up to 1.200 °C)	0	0	0
	Probe extension 1.000 mm (up to 1.200 °C)	0	0	o
	Heat protective shield	0	0	0
	Article no.	2948 J	2947 J	8702 J

 \bullet = included | \circ = optional



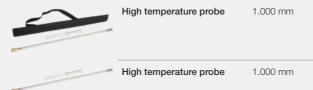


configure your Wöhler A 550 INDUSTRIAL Flue Gas Analyzer up to 5 Sensors

 decide which sensor variation suits your requirements

V

Warranty				Article no.
Warranty extension (by 1 Wöhler A 550 IND Flue Gas				599
Sensors				Article no.
	O ₂ -Sensor field replaceable	021 Vol. %		5594 C
۲	CO _H -Sensor field replaceable	100.000 ppm		5596 C
8	CO _N -Sensor field replaceable	10.000 ppm H ₂ -compensate	ed	11037 C
	NO-Sensor field replaceable	3.000 ppm		5597 C
	NO ₂ -Sensor field replaceable	1.000 ppm		5598 C
8	SO ₂ -Sensor field replaceable	5.000 ppm		5665 C
8	CO ₂ NDIR-Sensor field replaceable	040 Vol. %		11011 K
۲	H ₂ S-Sensor field replacable	350 ppm		11014 K
Probes up to 800 °C				Article no.
	Gas Probe			
	295 mm			9622 J
	500 mm			9614 J
	1.000 mm			9695 J
3	1.000 mm	with stainless steel sinter-filte	9r	4189 J
	Stainless steel Sinter-filter replacement-filter			4187 J
Probes up to 1.200 °C				Article no.
2	High temperature probe	1.000 mm	with pre-filter and carrying bag	2291 J
5	High temperature probe	1.000 mm	without pre-filter and carrying bag	2936 J



Probes up to 1.200 °C				Article no.
	Probe extension	1.000 mm	for high temperature probe	2293 J
	Thermo couple extension	2.000 mm	for high temperature probe	6599 J
Q 3	Pre-filter		for high temperature probe	2298 J
	Replacement-filter		for high temperature probe	2953 J
	Heat protective shield		for high temperature probe	2966 J
	Safety Pins to fix the sinter- 10 pieces	filter	for high temperature probe	11063 K

	Article no.
USB Peltier Cooler portable Peltier Cooler to remove condensate to be used for accurate SO ₂ or NO ₂ flue gas analysis Comes with: USB connection cable 3 m, Angle Adapter Peltier Cooler please purchase a power bank at your local electronics supplier	4463 J
we recommand a mobile battery with 10.000 mAh	

Other Probes		Article no.
	Air Temperature Plug	
		5517 J
	Air Temperature Probe 220 mm / 1,8 m Cable	6545 J
	Velocity Probe Type S	5579 J
	Pitot tube Ø 7 mm	
	1.000 mm	9489 O
(CT	500 mm	9488 O
5	350 mm	9487 O

Documentaion



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



Thermal Paper 57 mm width, 12 m long/ roll, 10 rolls for Thermal Printer Wöhler TD 100





Languages: EN / FR / IT / CZ

for online measurements, diagram functions and expo This Wöhler PC software is used to evaluate and man bility for online measurement as well as export of data The software is available for download. You will receive



Wöhler A 550 App The app is available on the Play Store.

With this app, the measured values of the Wöhler A 55 rically on the smartphone, exported and transferred to

Transport



Heavy Duty Carrying Case MAXI very robust case with foam inlet, ideal for the daily use provides enough room for the flue gas analyzer, as we probes and cones



Carrying bag for flue gas probes 500 / 750 / 1.000 mm



Backpack for Wöhler A 450 / 550



Servicebag



Water Stop Filters pack with 3 pieces



pack with 5 pieces



Wadding Filters pack with 150 pieces

Peltier (

	Article no.
teries	4160 I
	4145 I
	4428 J
oort to MS Excel nage the measured data. There is the possi- ia to MS Excel for graphically displayed data. ve a separate email with the download link.	
	free of charge
550 can be displayed graphically and nume- to a mobile management program.	
	Article no.
se rell as the thermo printer, soot pump kit,	5577 J
	1243 K
	12401
	5101 J
	Article no.
	4733 K
	9621 K
	9632 K
	4288 K

Order Form

Product	Article no.	Qty.

Notes

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	
Date	Signature or company stamp

Your contact



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