WÖHLER

INDUSTRIAL

POWERFULLY TOUGH.

Wöhler A 550 INDUSTRIAL

PORTABLE FLUE GAS EMISSIONS ANALYZER

The Measure of Technology

Made in Germany

WÖHLER A 550 INDUSTRIAL

Portable Flue Gas Emissions Analyzer with superior accuracy

As tough as cast iron, but as easy to operate as a smartphone – that‘s what Wöhler‘s new Flue Gas Emssions Analyzer feels like in your hand. A tap of your finger on the Wöhler A 550 INDUSTRIAL is all that is required to perform a complete analysis and inspection of boilers and burners. The Flue Gas Emissions Analyzer is designed to be used in tough industrial heat processes. The in-stack stainless steel sinter-filter probe protects the analyzer against heavy dust loads.

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 .

„Smart“ handling features

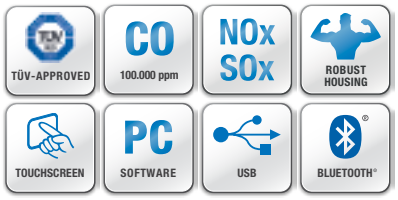
Acquiring measurement values is as easy as could be. The analyzer is equipped with magnets, so you can attach it to any magnetic objects to work hands-free. The probe is equipped with a start/stop button to run or hold measurement readings.

There are a number of interfaces available to transfer data: USB, infrared and Bluetooth®. And with the Wöhler TD 100 Fast Thermal Printer you can print out the readings on-site. The new battery-driven peltier cooler ensures both accurate NOx and SOx 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 length and dimensions.



- **7" color-touchscreen as intuitive to use as a smartphone**
- **NOx and SOx emissions measurement with 0,1 ppm resolution**
- **In-stack Sinter-filter probe for dust protection**
- **Battery-driven peltier cooler device - more than 4 h off-grid operation time**
- **High-power sample pump for differential pressures up to 300 mbar**
- **Built-in logger function with user selectable configuration**

Extensive Range of Functions

PRODUCT BENEFITS

- 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
- Calibrate in the flue gas pipe via a fresh air pump
- Graphic hot spot search

EXTREMELY RELIABLE

- Effective dust and condensate protection
- 4-filter technology – easily accessible
- Analyzer and sensor diagnostics
- Sensor replacement – user-friendly
- Rechargeable battery operating time: more than 7 h with Lithium Ion power
- Hose assembly – robust and flexible

HUGE RANGE OF APPLICATIONS

- Expandable with up to 5 sensors
- For measurements: NO, NO_2, SO_2
- Probe for a variety of measurement tasks
- In-stack sinter-filter for heavy dust loaded samples

SIMPLE DATA MANAGEMENT

- 1,000 measurement records
- Data transfer via USB, Bluetooth or infrared

TÜV-APPROVED

- DIN EN 50379 Part 2

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 100,000) in flue gas	
Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor
Range	0-100,000 vol. ppm; resolution 1 vol. ppm
Accuracy	± 100 vol. ppm (< 1,000 vol. ppm), otherwise 10% of reading (with H_2 < 5 % of reading)
Nitric oxide concentration (NO) in flue gas	
Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor
Range	0-3,000 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 (NO_2) in flue gas	
Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor
Range	0-1,000 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 (SO_2) in flue gas	
Display	Volume ppm referenced to dry flue gas
Measurement principle	Electrochemical sensor
Range	0-5,000 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
Differential pressure (P_D)	
Display	Pascal
Measurement principle	Semi-conductor diaphragm
Range	0.00 to ± 110.00 hPa; resolution 0.1 Pa (<1,000 Pa), otherwise 1 Pa
Accuracy	0.3 Pa (< 10.0 Pa), otherwise 3% of reading
Flue gas temperature (T_S)	
Display	°C
Measurement principle	Thermocouple (NiCr-Ni) (NiCr-Ni)
Range	-20.0 °C to 800 °C; resolution 0.1 °C
Accuracy	0-133 °C: ± 2°C 133-800 °C: ± 1.5 % of reading
Combustion air temperature (T_A)	
Display	°C
Measurement principle	Thermocouple (NiCr-Ni)
Range	-20.0 °C to 100 °C; resolution 0.1 °C
Accuracy	±1°C
Power supply	Lithium-Ion, rechargeable battery 3.7 V, 5800 mAh, charges via USB
Battery operating time	Approx. 7 h (depends on operating status and display illumination)
Storage temperature	-20 °C to +50 °C
Operating temperature	+5-40 °C to maintain stated accuracy
Weight	1,250 g
Dimensions	220 x 160 x 55 mm (without probe)
Length of cable-hose:	1,700 mm

SINTER-FILTER PROBE
removes dust (> 20 µm) from the sample gas to protect the analyzer against heavy dust loads.

BATTERY-DRIVEN PELTIER COOLER
removes condensate from the sample gas for accurate NOx and SOx measurements.

ORDER FORM

FAX: +49 2953 7396-279

We´re happy to advise you personally

Phone: +49 2953 73-279

Wöhler A 550 INDUSTRIAL	Qty
Wöhler A 550 INDUSTRIAL with O_2 / NO / CO_{High} / NO_2 / SO_2 Wöhler A 550 INDUSTRIAL with O_2, NO, CO_{High}, NO_2, SO_2, Bluetooth, USB- and IR, Hose 3,0 m and modular Flue Gas Probe 1000 mm with sinter filter, Ambient Temperature Probe (plug), USB-Charger with Micro-USB-Cable, Li-Ionen Battery, 1 Waterstopp Filter, 1 Coarse Filter, 25 Wadding Filters, Plastic Case	
P/N 5996	

Peltier cooler for NOx and SOx	Qty
USB Peltier Cooler for Wöhler A 550 INDUSTRIAL with battery and USB cable 3m Portable Peltier Cooler with external mobile battery to remove condensate. Operational time up to 5h. To be used for accurate SO_2 or NO_2 flue gas analysis. Comes with: Wöhler USB Peltier Cooler A 550, 10.000 mAh mobile battery pack, 3,0 m USB connection cable, Angle Adapter Peltier Cooler	
P/N 4435	

Probe with sinter-filter 20 µm	Qty
Flue Gas Probe 1000 mm with filter holder and stainless steel Sinter-filter To be used with Wöhler A 550 INDUSTRIAL Flue Gas Emissions Analyzer	
P/N 4189	
Stainless steel Sinter-filter for Wöhler A 550 INDUSTRIAL replacement filter	
P/N 4187	

Probes	Qty
Wöhler A 550 Gas Probe 500 mm	
P/N 9614	
Wöhler A 550 Gas Probe 295 mm	
P/N 9622	
Flue Gas Probe Wöhler A 550 1,000 mm with protective cap	
Art.-Nr. 9695	
Wöhler A 550 Air Temperature Probe 280 mm with 1,7 m cable	
P/N 5511	
Wöhler Velocity Probe Type S for Wöhler A 550 to measure gas velocity	
P/N 5579	
Pitot Tube length 100 cm, 7 mm Ø	
P/N 9489	
Pitot Tube length 50 cm, 7 mm Ø	
P/N 9488	

Cones	Qty
Magnetic Holder for air temperature probes to stabilize the air temperature probe	
P/N 6142	
Clamping Cone for probes 8 mm Ø stainless steel, to stabilize the gas probe in the flue pipe	
P/N 2494	
PTFE Cone for probes 8 mm Ø to stabilize air temperature probes in openings 10 - 15 mm Ø	
P/N 2463	

Printer	Qty
Wöhler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries	
P/N 4160	
Thermal Paper 57 mm width, 10 rolls for thermal printer Wöhler TD 100, TD 600	
P/N 4145	

PC-Software	Qty
PC-Software Wöhler A 550 on CD Languages EN, FR, IT, CZ, NL, CN for online measurements, diagram functions and export to MS Excel	
P/N 4428	

Consumables	Qty
Water Stop Filters pack with 3 pieces for Wöhler A 600 / A 500 / A 400	
P/N 9621	
Coarse Filters pack with 5 pieces for Wöhler A 500 / A 600	
P/N 9632	
Wadding Filters A 400 / A 550 / A 600 pack with 150 pieces	
P/N 4288	

WÖHLER

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