WÖHLER

POWERFULLY SIMPLE.

Wohler A 550

FLUE GAS ANALYSIS AT YOUR FINGER TIP

The Measure of Technology

4 YEAR WARRANTY[1]

WOHLER A 550
New Flue Gas Analyzer with all measurement functions

As robust as cast iron, but as easy to operate as a smartphone – that's what Wohler's new flue gas analyzer feels like in your hand. Appropriately, the advantages are equally substantial: A tap of your finger on the Wohler A 550 is all that is required to perform analyses, inspections and settings on residential and commercial appliances. The flue gas analyzer is equipped with coded connections for the 4 Pa test and even "NEW AND UNIQUE" a wood moisture content measurement function to VDI Guideline 4206 (VDI = Association of German Engineers).

No matter how you look at it, the new Wohler A 550 really is a "nifty piece of equipment": The individual functions can be called up as intuitively as using a smartphone via the large 7" color touchscreen. And the brightly lit monitor can be read anywhere. The generously dimensioned screen and the clearly arranged, in part graphic presentation of readings are an absolutely ideal basis for holding discussions with customers.

"Smart" handling features

Acquiring measurement values is as easy as could be. The analyzer is equipped with magnets, so you can attach it to the casing of the heater or boiler – and your hands are free to work. The probe is fitted with an additional start/stop button, with which it is possible to start or stop measurement readings.

There are a generous number of interfaces available to transfer data to other management programs: USB, infrared and Bluetooth. And with the new Wohler TD 100 Fast Thermal Printer you can print out the readings on the spot, so the customer immediately has the values in black and white in their hand.

TÜV-CERTIFIED · 4 YEAR WARRANTY[1] · ROBUST HOUSING · 4 FILTER TECHNOLOGY · DATA TRANSFER USB & BLUETOOTH® · 4 Pa TEST

[1] Excludes thermocouple, rechargeable battery and special sensors; for further information please read our Terms and Conditions.

- **7" color-touchscreen as intuitive to use as a smartphone**
- **4-year warranty[1] on the analyzer and sensor**
- **Including wood moisture content measurement and backflow check**
- **Probe and hose assembly with start/stop function for remote analyzer operation**
- **One hose and a single plug connection for flue gas analysis, temperature and draft measurements**

Easy to use with a clear design – the Wohler A 550 offers you the highest level of working convenience. Flue Gas Analysis in accordance with the 1st BImSchV and KÜO is child's play.

Robust and wear-resistant by design, the analyzer is able to withstand a thing or two.

"Do you have any questions?" – Use the large, clearly arranged color touchscreen to explain the results of the measurements to your customers on-the-spot.

First Flue Gas Analyzer with integrated wood moisture content measurement capability to VDI 4206. Suitable for insertion and hammer probes.

With the Wohler TD 100 Fast Thermal Printer you can print out the results of the measurements on the spot.

All Important Functions at a Glance

Original size

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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
  (Wohler A 550)
- Graphic hot spot search

EXTREMLY RELIABLE

- Effective condensate protection
- Automatic CO clean out pump protects CO sensor
  (Wohler A 550)
- 4-filter technology – easily accessible
- Analyzer and sensor diagnostics
- Sensor replacement – user-friendly
- Rechargeable battery operating time: more than 12 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
- Insertion probe for a variety of measurement tasks
- Spillage Test and much more
- First Flue Gas Analyzer incl. wood moisture content
  measurement (wood moisture probe included in scope of
  supply of Wohler A 550)

SIMPLE DATA MANAGEMENT

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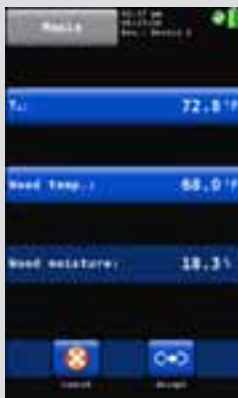- Data transfer via USB, Bluetooth or infrared

TÜV-APPROVED

- TÜV By RgG 297, EN 50379 - 2, VDI 4206, EN 50379 - 1 for
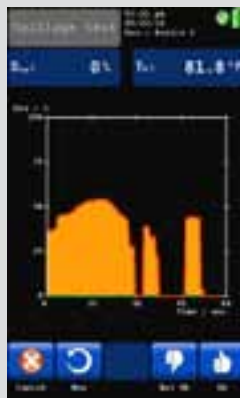 CO

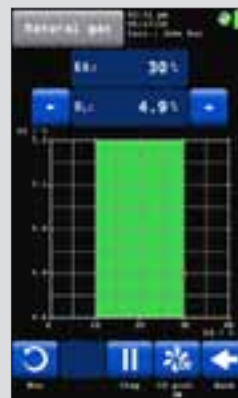The Wohler A 550 Combustion Analyzer with protective hinged lid.

WOOD MOISTURE

Unique in a flue gas analyzer: integrated wood moisture content measurement.
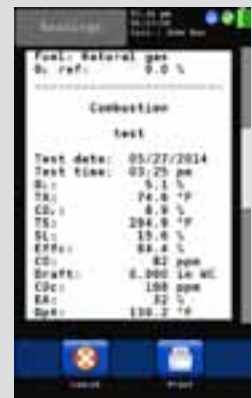
BACKDRAFT TEST

Graphic representation of moisture exposure and temperature for backflow check.

TUNING GUIDE

Exceptional advanced guidance for the technician to properly adjust the burner. All readings are presented in a graph.

PRINT PREVIEW

It is even possible to generate a preview of the measurement results printout.

Those Special Extras

CONVENIENT PLUG-IN CONNECTION

Analysis, temperature and draft – 3 functions in a single hose: Simply plug them together and fold down the protective lid again.

THE RIGHT PROBE FOR EVERY APPLICATION

No matter if flue gas, O_2 dual wall or QA- Mean Value Measurement, the right probe is connected in no time at all.

START /STOP BUTTON ON THE PROBE HANDLE

When measuring in difficult conditions, you can also simply stop and save the measurement at the press of the button on the probe handle.

CONDENSATE STATUS ALWAYS IN VIEW

The bright blue condensate trap is serviced in no time at all and without any difficulty. The condensate trap flashes as soon as the maximum condensate level is reached. You can replace the cotton filter and water stop filter yourself in no time at all.

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Wohler	A 550	A 550 L
Applications (depends on accessories)		
Flue Gas Analysis	●	●
4 Pa-test	●	
Wood moisture	●	●
Backflow check	●	●
Wohler Tuning Guide	●	●
Possible sensors	5	3
Functionality		
7" color touchscreen	●	●
Fresh air pump, simultaneous hot spot search and calibration	●	
Start-/stop function at probe	●	
1,000 measurement records	●	●
USB & infrared	●	●
Bluetooth®	●	
CO clean out pump	●	
Reliability		
4-year sensor and analyzer guarantee[1]	●	●
Analyzer self diagnostics	●	●
Field replaceable sensors	●	●
Visual filter alarm	●	●
Lithium Ion rechargeable battery with up to 12 h battery operating time	●	●
Scope of supply		
Interchangeable probe with 67" hose assembly and plug-in probe 12"	●	
Probe with 67"hose assembly and fixed probe 11"		●
Combustion air temperature probe	●	optional
Wood Moisture Probe	optional	optional
Pressure measurement adapter for 4 Pa test	optional	
1 water stop filter and 1 coarse filter	●	●
Rechargeable battery and USB battery charger	●	●
Case	●	●

●= included

[1] Except thermocouple, rechargeable battery and special sensors; for further information please read our Terms and Conditions.

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 4,000 ppm) in flue gas (Wohler A 550)
Display.............................Volume ppm referenced to dry flue gas
Measurement principle ....Electrochemical sensor
Range...................0 – 4,000 Vol. ppm; resolution 1 Vol. ppm
Accuracy...............................±20 ppm (< 400 ppm), otherwise 5 % of reading

Carbon monoxide (CO) in flue gas (Wohler A 550 L)
Display.............................Volume ppm referenced to dry flue gas
Measurement principle ....Electrochemical sensor
Range...................0 – 35,000 Vol. ppm; resolution 1 Vol. ppm
Accuracy...............................±100 ppm (< 1,000 ppm), otherwise 10 % of reading (with H_2 < 5% of reading)

Carbon monoxide (CO_{high}) in flue gas (optional)
Display.............................Volume ppm referenced to dry flue gas
Measurement principle ....Electrochemical sensorr
Range...................0 – 100,000 vol. ppm; resolution 1 Vol. ppm
Accuracy...............................±100 ppm (< 1,000 ppm), otherwise 10 % of reading (with H_2 < 5 % of reading)

Nitric oxide concentration (NO) in flue gas (optional)
Display.............................Volume ppm referenced to dry flue gas
Measurement principle ....Electrochemical Sensor
Range...................0 – 3,000 Vol. ppm (continuously up to 1,000);
Resolution ....1 Vol. ppm
Accuracy...............................±5 Vol.-ppm (< 100 ppm), otherwise 5 % of reading

Nitrogen dioxide concentration (NO_2) in flue gas (optional)
Display.............................Volume ppm referenced to dry flue gas
Measurement principle ....Electrochemical sensor
Range...................0 – 1000 Vol. ppm (continuously up to 200); resolution 1 Vol. ppm
Accuracy...............................±5 Vol. ppm (< 100 ppm), otherwise 5 % of reading

Sulfur dioxide (SO_2) in flue gas (optional)
Display.............................Volume ppm referenced to dry flue gas
Measurement principle ....Electrochemical sensor
Range...................0 – 5,000 Vol. ppm; resolution 1 Vol. ppm
Accuracy...............................±10 Vol. ppm (0...200 ppm), otherwise 5 % of reading

Chimney draft / differential pressure (PD) with 4 Pa test (Wohler A 550)
Display.............................inWC
Measurement principle ....Semi-conductor diaphragm
Range...................0.00 to ± 44.16 inWC; resolution 0.004 inWC (< 4.01 inWC), otherwise 0.004 inWC, with ventilation loss measurement 0.004 inWC
Accuracy...............................0.0012 inWC (< 0.04 inWC), otherwise 3 % of reading Drift < 0.00081 inWC in 5 minutes

Chimney draft / differential pressure (PD) (Wohler A 550 L)
Display.............................inWC
Measurement principle ....Semi-conductor diaphragm
Range...................0.00 to ± 44.16 inWC; resolution 0.004 inWC
Accuracy...............................0.008 inWC (< 0.16 inWC), otherwise 5 % of reading

Flue gas temperature (T_S)
Display.............................°F
Measurement principle ....Thermocouple (NiCr-Ni) (NiCr-Ni)
Range...................-4 °F to 1,472 °F; resolution 32.18 °F
Accuracy...............................32 – 271.4 °F: ±35.6 °F
271.4 – 1,472 °F: ±1.5 % of reading

Combustion air temperature (T_A)
Display.............................°F
Measurement principle ....Thermocouple (NiCr-Ni)
Range...................-4 °F to 212 °F; resolution 32.2 °F
Accuracy...............................±33.8 °F

Wood moisture
Display.............................Mass of water referenced to dry fuel mass
Measurement principle ....Electrical resistance measurement
Range...................10.0 – 40.0 %; resolution 0.1 %
Accuracy...............................±40 % of reading tested to VDI 4206 Part 4

Power supply ....Lithium-Ion, rechargeable battery 3.7 V, 5800 mAh, charges via USB

Battery operating time ......Approx. 12 h (depends on operating status and display illumination)
Storage temperature ....-4 °F to +122 °F
Operating temperature.......+41 – 104 °F to maintain stated accuracy
Weight................................2.75 lbs
Dimensions.........................8.7" x 6.3" x 2.2" (without probe)
Length of cable-hose ....67"

SETS & ACCESSORIES

Sets Wohler A 550	Qty
Wohler A 550 L Flue Gas Analyzer USA Wohler A 550 L, hose 5.6 ft and gas probe 0.9 ft, USB charger with micro USB cable, Li-Ionen battery, water stop filter, coarse filter, 25 wadding filters, case	
P/N 7753	
Wohler A 550 L Flue Gas Analyzer USA with Wohler TD 100 Thermal Fast Printer Wohler A 550 L USA, hose 5.6 ft and gas probe 0.9 ft, USB charger with micro USB cable, Li-Ion battery, water stop filter, coarse filter, 25 wadding filters, Wohler TD 100 thermal fast printer, case	
P/N 7754	
Wohler A 550 Flue Gas Analyzer USA with Wohler TD 100 Thermal Fast Printer Wohler A 550, hose 10 ft and gas probe 1 ft, air temp. probe, clamping cone, USB charger with micro USB cable, Li-Ion battery, water stop filter, coarse filter, 25 wadding filters, Wohler TD 100 thermal fast printer, case	
P/N 7757	
Wohler A 550 with NO/NO$_2$ USA with Wohler TD 100 Thermal Fast Printer Wohler A 550 USA with additional NO and NO$_2$ sensor, hose 10 ft and gas probe 1 ft, air temp. probe, clamping cones, USB charger with micro USB cable, Li-Ion battery, water stop filter, coarse filter, 25 wadding filters, Wohler TD 100 thermal fast printer, case	
P/N 7764	
Wohler A 550 NO / NO$_2$ / SO$_2$ USA with Wohler TD 100 Thermal Fast Printer Wohler A 550 USA with additional NO, NO$_2$ and SO$_2$ sensor, hose 10 ft and probe 1 ft, air temp. probe, clamping cone, USB charger with micro USB cable, Li-Io battery, water stop filter, coarse filter, 25 wadding filters, Wohler TD 100 thermal fast printer, case	
P/N 7765	

Probes	Qty
Wohler A 550 Upgrade Kit NEW Wohler A 550 air temperature probe 11" with 67" cable, clamping cone	
P/N 7758	
Wohler A550 air temperature probe 11", with 67" cable	
P/N 5511	
Wohler Probe 20" Wohler A 550 / A 500 / A 97	
P/N 9614	
Wohler Probe 12" Wohler A 550 / A 500 / A 97	
P/N 9622	
Wohler Probe 7" Wohler A 550 / A 500 / A 97	
P/N 9613	
Wohler Probe 5" Wohler A 550 / A 500 / A 97	
P/N 9652	
Wohler Flexible Probe 12" Wohler A 550 / 500	
P/N 3242	
Wohler A 550 dew point indicator probe	
P/N 5512	
Wood Moisture Probe Wohler A 550	
P/N 5513	
Hose assembly 10 ft for Wohler A 550 Gas Probe	
P/N 7179	

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

Flue Gas Preparation	Qty
Peltier cooler Wohler A 550 / A 400 incl. power supply	
P/N 5535	
Extension Wohler Cable hose Wohler A 550 L, 9 ft	
P/N 2076	

Printer	Qty
Wohler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries	
P/N 4160	
Thermal Paper 2.24" width, 10 rolls; for thermal printer Wohler TD 100 and TD 600	
P/N 4145	

Charger	Qty
Charger Wohler A 550	
P/N 5502	

Cases	Qty
Plastic case Wohler A 550 L	
P/N 5516	
Wohler A 550 Heavy duty carrying case twin-wall case Heavy duty carrying case, with twin wall for document storage, for Wohler A550	
P/N 5577	

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

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