

TESTO 300 FLUE GAS ANALYZER

Flue gas measurement
truly smart.



gas detection | designed for support | gastech.com

TESTO 300

Flue gas measurement truly smart.



Welcome to the Smart World of Testo.

A contemporary flue gas analyzer should not just provide reliably accurate results – that is a must. The really key issue is making everything as easy as possible for you, both before and after the measurement, as well as in terms of the measurement itself. And doing this every single day.

The user-friendly and highly efficient testo 300 was developed with

this objective in mind. It is not just the fruit of decades of experience in measuring technology. With smart-touch operation, robust construction and e-mailing of reports, the testo 300 will quickly become your indispensable companion for all measuring tasks involving heating.

TRULY ROBUST:

Smart measuring technology is of little benefit if it does not keep going in tough day-to-day working conditions. Because your measuring instrument is a partner that supports you every day in the efficient, problem-free performance of your tasks. This is precisely why the testo 300 has a particularly resilient and high-quality construction. Special challenges can thus easily be met across workshops, transport vehicles and boiler rooms.

KEY FEATURES

- **Operation via smart-touch – The smart-touch display responds immediately without any delay. That allows intuitive operation – just as easy as on your smartphone.**
- **E-mailing of reports – The testo 300 enables the convenient creation of documentation directly on site. You can send reports to the office or customers straight away via WLAN.**
- **Keep an eye on all the measuring values – You can see all the system's parameters straight away on the large 5" HD display.**
- **Get the result faster – Clearly structured menus for all relevant measurements are already stored in the measuring instrument and guide you efficiently through the application.**
- **Ready to use straight away – No more waiting time. In standby mode, the testo 300 is ready to measure at the touch of a button.**
- **Completely worry-free – The testo 300 has quality sensor technology with up to 6 years' service life, measures high CO values up to 30,000 ppm and is future-proofed thanks to NO preparation.**

Protected display

Scratch-resistant, recessed and with a special replaceable protective film.



Secure mounting

4 strong magnets with rubber coating – particularly material friendly.



Robust sensors

Optional: extremely durable O₂ sensor and automatic dilution up to 30,000 ppm CO.



Truly flexible: Instrument configuration and probe system.

A FLUE GAS ANALYZER PERFECTLY TAILORED TO YOUR NEEDS

The testo 300 doesn't just give you smart operation – the configuration also has that certain something. This means you can choose between a 2-year and 4-year warranty for the sensor technology. In addition to O₂ and CO, you can also add

a third sensor slot for the measurement of NO_x as an option. And various kits with special instrument configurations and individual accessories are available, specifically tailored to the requirements of heating engineers and chimney sweeps.



One handle for a variety of probes

A variety of probe shafts can easily be attached to the multi-functional handle. This ensures you enjoy a high level of flexibility in all applications. And you are ready to measure even more quickly, thanks to connection via a universal plug.



Proven probes

You can use the testo 320, testo 330 and testo 330-1/-2 LL probes with their practical multiple plug for the testo 300 as well.



New probes

New probes with anti-rotation USB C connection are available for temperature measurement, for example of flow and return temperatures, along with ambient CO measurement.



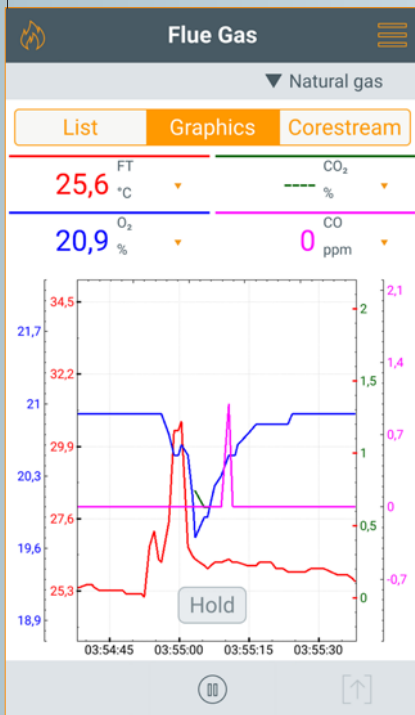
testo interface function

The testo 300 provides an interface with a variety of industry software. This enables you to access the testo 300's readings with your terminal devices and tools and to document them or further process them in your industry software.

Truly intuitive: The menus.

Flue gas values as a graphic

See all the readings in a graphic progression display – and identify, for instance, how the flue gas loss relates to the CO value.



Smart tracking of flue gas values

All the relevant values at a glance. The display can be individually configured and can easily be enlarged using the zoom-in function.



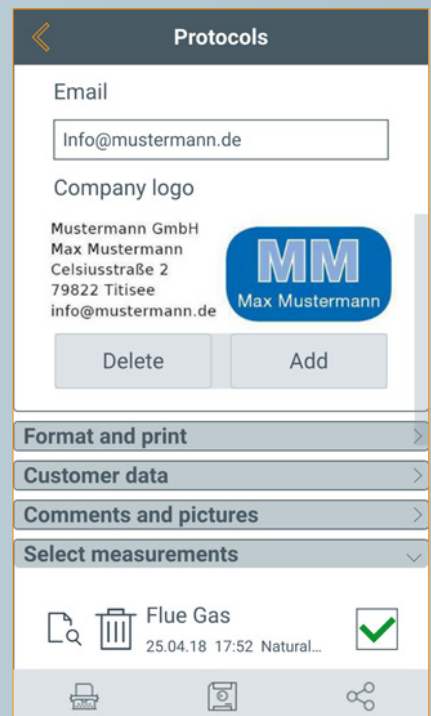
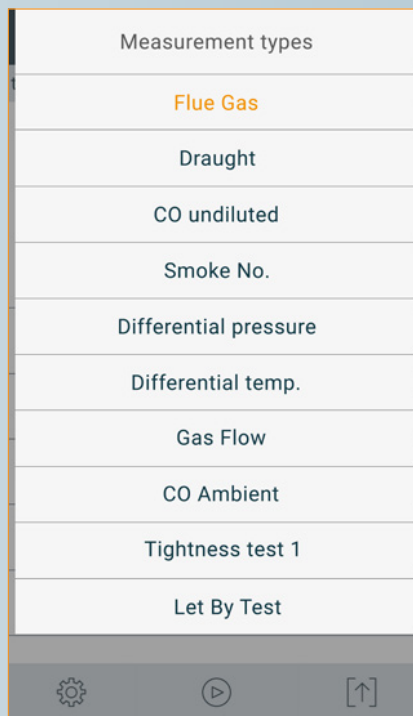
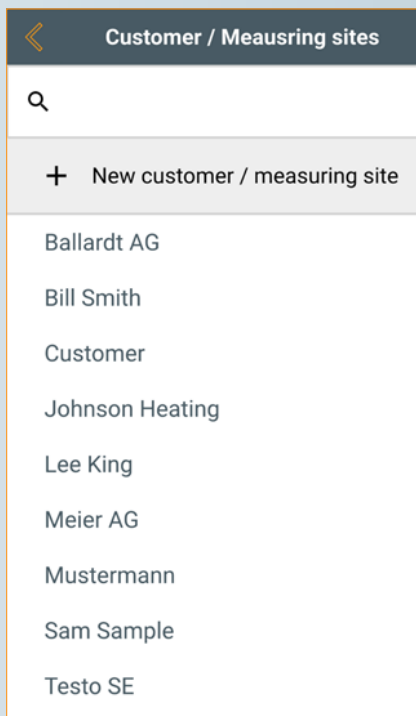
Customers/measuring points

Integrated address book with details of the relevant heating system (e.g. manufacturer, system type, system name, serial no., fuel, etc.).



Professional documentation

Create measurement protocols with all the information about readings, customers and heating systems directly on site, add comments to them, have the protocols confirmed by the customer's signature and send the protocols. You can also store your company logo. All PDF reports with all the important information are also saved in the instrument so that they are always to hand.



Intuitive measurement menus

Clearly structured and explicit menus for all applications involving heating systems are already stored in the testo 300. This allows you to do your jobs even more efficiently.



INSTRUMENT MODELS.

testo 300 flue gas analyzer						
Order no.	Longlife sensors	O ₂ sensor	CO sensor	CO H ₂ sensor	NO sensor - can be retrofitted	Zeroing with probe in flue gas
0633 3002 70	–	✓	4,000 ppm	–	–	–
0633 3002 71	–	✓	8,000 ppm	✓	–	–

testo 300 Longlife flue gas analyzer						
Order no.	Longlife sensors	O ₂ sensor	CO sensor	CO H ₂ sensor	NO sensor - can be retrofitted	Zeroing with probe in flue gas
0633 3004 72	✓	✓	4,000 ppm	–	✓	–
0633 3004 73	✓	✓	8,000 ppm	✓	✓	–
0633 3004 82	✓	✓	15,000 ppm	–	✓	✓
0633 3004 83	✓	✓	30,000 ppm	✓	✓	✓

Longlife sensors

High-end sensors with a service life of up to 6 years for intensive use (several times a day). At least one sensor replacement is saved in the course of a normal working life.

Spare gas sensors/retrofitting	Order no.
O ₂ sensor, with 4 years' warranty	0393 0023
CO sensor (without H ₂ compensation), with 4 years' warranty	0393 0051
CO sensor (without H ₂ compensation), with 2 years' warranty	0393 0053
CO sensor, H ₂ -compensated, with 4 years' warranty	0393 0101
CO sensor, H ₂ -compensated, with 2 years' warranty	0393 0105
NO sensor	0393 0151

Accessories	Order no.
testo Bluetooth® printer, including 1 roll of thermal paper, rechargeable battery and mains unit, for instruments including the testo 300, testo 330i and testo 440	0554 0621
Spare thermal paper for printer, permanent ink	0554 0568
Smoke tester, including oil and soot papers for measuring soot in flue gas, excluding cone (order no. 0554 9010)	0554 0307
Filter paper for determining soot number, 40 measuring strips for approx. 200 measurements	0554 0308
USB mains unit, including USB cable	0554 1105
testo EasyHeat PC software for displaying measurement procedures as diagrams, tables and for customer data management	0554 3332
ISO calibration certificate for flue gas	0520 0003

Cases and carrying bags	Order no.
Instrument case (height: 130 mm) for instrument, probes and accessories	0516 3300
Instrument case with double base (height: 180 mm) for instrument, probes and accessories	0516 3301
testo 300 instrument bag with carrying strap	0516 3001

TECHNICAL DATA

Measurement parameter	Measuring range	Accuracy (± 1 digit)	Resolution
O₂ measurement	0 to 21 vol.%	± 0.2 vol.%	0.1 vol.%
CO measurement (without H₂ compensation)	0 to 4,000 ppm	± 20 ppm (0 to 400 ppm) $\pm 5\%$ of m.v. (401 to 2,000 ppm) $\pm 10\%$ of m.v. (2001 to 4,000 ppm)	1 ppm
CO measurement (with H₂ compensation)	0 to 8,000 ppm	± 10 ppm or $\pm 10\%$ of m.v. (0 to 200 ppm) ± 20 ppm or $\pm 5\%$ of m.v. (201 to 2,000 ppm) $\pm 10\%$ of m.v. (2,001 to 8,000 ppm)	1 ppm
CO measurement (without H₂ compensation and dilution)	0 to 15,000 ppm	± 200 ppm or $\pm 20\%$ of m.v.	1 ppm
CO measurement (with H₂ compensation and dilution)	0 to 30,000 ppm	± 100 ppm or $\pm 10\%$ of m.v.	1 ppm
NO measurement	0 to 3,000 ppm	± 5 ppm (0 to 100 ppm) $\pm 5\%$ of m.v. (101 to 2,000 ppm) $\pm 10\%$ of m.v. (2,001 to 3,000 ppm)	1 ppm
Efficiency testing (Eta)	0 to 120%		0.1%
Flue gas loss	0 to 99.9%		0.1%
CO₂ determination (digital calculation from O₂)	Display range 0 to CO ₂ max.	± 0.2 vol.%	0.1 vol.%
Draught measurement	-9.99 to +40 hPa	± 0.005 hPa (0 to 0.1 hPa) ± 0.02 hPa (0.1 to +3.00 hPa) $\pm 1.5\%$ of m.v. (+3.01 to +40 hPa)	0.001 hPa (0 to 0.1 hPa) 0.01 hPa (remaining meas. range)
4 Pa measurement (for instruments with dilution)	-50 to +50 Pa	± 0.3 Pa (< 10 Pa) $\pm 3\%$ of m.v. (remaining meas. range)	0.1 Pa
Pressure measurement	-100 to 200 hPa	± 0.5 hPa (0 to +50.0 hPa) $\pm 1\%$ of m.v. (+50.1 to +100.0 hPa) $\pm 1.5\%$ of m.v. (+100.1 to +200 hPa)	0.01 hPa
Temperature (instrument)	-40 to +1,200°C	$\pm 0.5^\circ\text{C}$ (0.0 to +100.0°C) $\pm 0.5\%$ of m.v. (remaining meas. range)	0.1°C (-40 to +999.9°C) 1°C (remaining meas. range)
Ambient CO measurement (internal/flue gas probe)	0 to 2,000 ppm	± 10 ppm (0 to 100 ppm) $\pm 10\%$ of m.v. (101 to 2,000 ppm)	1 ppm
Ambient CO measurement (external with CO probe)	0 to 500 ppm	± 3 ppm (0 to 29 ppm) $\pm 10\%$ of m.v. (30 to 500 ppm)	1 ppm

TESTO 300

SPECIFICATIONS Specifications subject to change without notice

Certification	The testo 300 is TÜV-tested according to 1st German Federal Immission Control Ordinance (BImSchV) EN 50379, Parts 1-3	
Storage temperature	-20 to +50°C	
Operating temperature	-5 to +45°C	
Charging temperature	0 to +45°C	
Humidity application range	15 to 90% RH, not condensing	
Power supply	Rechargeable battery, USB mains unit	
Rechargeable battery life	10 hrs	
Protection class	IP 40	
Memory	1 mio. measurement values	
Display	5.0" touch display, HD 1280x720 pixels, IPS (160 k)	
Weight	Approx. 800 g	
Dimensions	L: 244 mm (including probe connection) H: 59 mm W: 98 mm	
Testo 300 warranty	Instrument/probe/gas sensors	
	O ₂ , CO sensor	24 months
	Thermocouple and rechargeable battery	12 months
Testo 300 Longlife warranty	Instrument/probe/gas sensors	
	O ₂ , CO sensor	48 months
	NO sensor	24 months
	Thermocouple and rechargeable battery	12 months



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