

## Testo 300 and 300LL flue gas analyser

Truly smart flue gas measurement.

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Large scratch-resistant 5" HD display with smart-touch operation

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Stored, intuitive menus for all relevant measurements

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4 strong magnets with rubber coating for material friendly mounting

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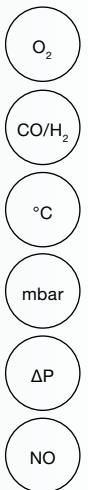
Ready to measure at the touch of a button in standby mode

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Extremely durable O<sub>2</sub> sensor and automatic dilution (with testo 300LL) up to 30,000 ppm CO

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Measurement reports created and sent via bluetooth or email



Flue gas measurement truly smart: that is what the testo 300 stands for. The compact flue gas analyser is fully operated via the large touch display. You can see all the measurement values straight away on this without scrolling. The large 5" HD display brings simple smart touch operation and remains reliable in day-to-day working conditions. Menus for the most important measurements are already stored in the testo 300 and reliably guide you through the relevant application. The flue gas analyzer is not familiar with waiting times or start-up phases, it is immediately ready to go at the touch of a button in standby mode.

Documentation is dealt with just as quickly – with the testo 300, reports can be created and sent directly on site. The testo 300 and 300LL models can additionally be fitted with an optional NO sensor to allow calculated NOx measurement. testo 300LL models are also fitted with automatic dilution system to allow measurement up to a maximum of 30,000ppm CO whilst protecting the sensor from damage.

# Truly smart: The testo 300 flue gas analyser.

Providing reliably accurate results is not enough. A contemporary flue gas analyzer also makes all work steps as easy as possible for you, both before and after the measurement, as well as in terms of the measurement itself. The user-friendly testo 300 was developed with precisely

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.



### Operation via smart-touch

The smart-touch display responds immediately without any delay. That allows intuitive operation – just as easy as on your smartphone

### Simple reporting

The testo 300 allows fast reporting via pdf protocol, which can then be sent using Bluetooth transfer to external device or direct to client via email.

### 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. This model is also ready for 20% H2 blended gas

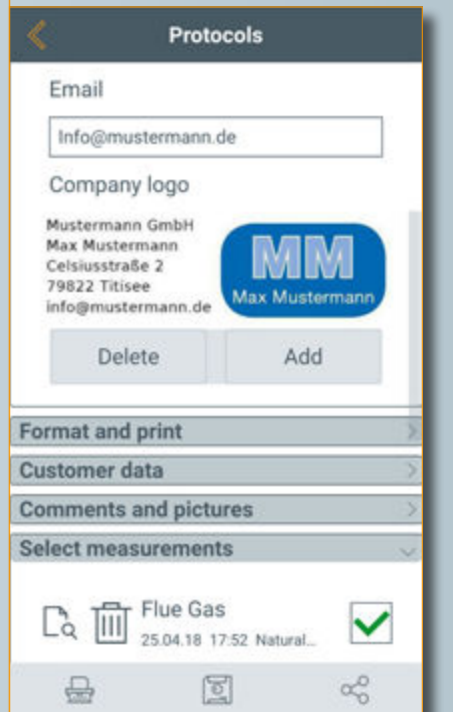
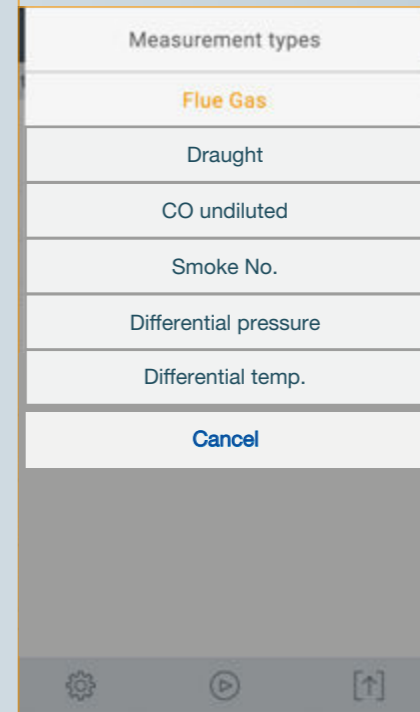
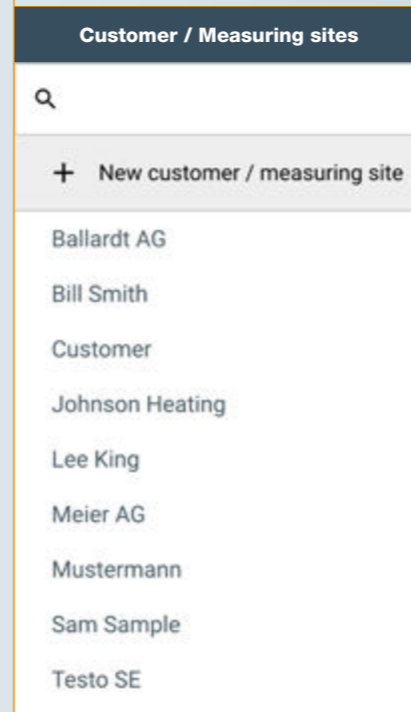
### Customers/measuring points

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

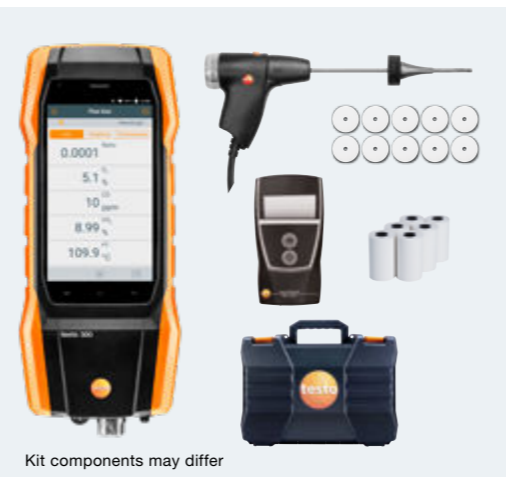
Clearly structured and explicit menus for all applications involving heating systems are already stored in the testo 300. This allows you to do your jobs even more efficiently.



## Suitable kits

testo 300 kits				
Order no.	<b>testo 300 Standard Kit</b>	<b>testo 300 Advanced Kit</b>	<b>testo 300 Handset only</b>	
Order no.	0564 3002 90	0564 3002 91	0633 3002 78	
Instrument, including mains unit	O <sub>2</sub> , CO, 4,000 ppm, NO sensor can be retrofitted	O <sub>2</sub> , CO, 4,000 ppm, NO sensor can be retrofitted	O <sub>2</sub> , CO, 4,000 ppm, NO sensor can be retrofitted	
Probe	Compact flue gas probe (180 mm, Ø 6 mm)	Compact flue gas probe (180 mm, Ø 6 mm)	-	
Printer, including spare paper	-	-	-	
Pressure connection set and diff. temp probes	-	✓	-	
Instrument bag	✓	✓	-	
Warranty	2 years	2 years	2 years	

testo 300 Longlife kits				
Order no.	<b>testo 300 Longlife Standard kit</b>	<b>testo 300 Longlife Standard kit with printer</b>	<b>testo 300 Longlife NOx kit with printer</b>	
Order no.	0564 3004 82	0564 3004 89	0564 3004 84	
Instrument, including mains unit	O <sub>2</sub> , CO H <sub>2</sub> , 10,000 ppm, NO sensor can be retrofitted	O <sub>2</sub> , CO H <sub>2</sub> , 10,000 ppm, NO sensor can be retrofitted	O <sub>2</sub> , CO H <sub>2</sub> , 10,000 ppm, NO sensor can be retrofitted	
Probe, including 10 spare filters	Modular flue gas probe (180 mm, Ø 8 mm)	Modular flue gas probe (180 mm, Ø 8 mm)	Modular flue gas probe (180 mm, Ø 8 mm)	
Printer, including spare paper	-	✓	✓	
Automatic CO dilution system	✓	✓	✓	
Instrument case	✓	✓	✓	
Warranty	4 years	4 years	4 years	



## Probes and accessories

<b>testo 300 accessories</b>	<b>Order no.</b>
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 1106
<b>Cases and carrying bags</b>	<b>Order no.</b>
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
<b>Compact flue gas probes</b>	<b>Order no.</b>
Compact basic flue gas probe, 180 mm, Ø 6 mm, Tmax. +500 °C	0600 9740
Compact basic flue gas probe, 300 mm, Ø 6 mm, Tmax. +500 °C	0600 9741
<b>Modular flue gas probes</b>	<b>Order no.</b>
Modular flue gas probe, including cone for fixing; thermocouple NiCr-Ni; hose 2.2 m; dirt filter; length 180 mm; Ø 8 mm; Tmax. +500 °C, TÜV-tested	0600 9760
Modular flue gas probe, including cone for fixing; thermocouple NiCr-Ni; hose 2.2 m; dirt filter; length 300 mm; Ø 8 mm; Tmax. +500 °C, TÜV-tested	0600 9761
Modular flue gas probe, including cone for fixing; thermocouple NiCr-Ni; hose 2.2 m; dirt filter; length 180 mm; Ø 6 mm; Tmax. +500 °C	0600 9762
Modular flue gas probe, including cone for fixing; thermocouple NiCr-Ni; hose 2.2 m; dirt filter; length 300 mm; Ø 6 mm; Tmax. +500 °C	0600 9763
Flexible flue gas probe; thermocouple NiCr-Ni; hose 2.2 m; dirt filter; length 330 mm; Ø 9 mm; Tmax. +180 °C; short-term +200 °C; ideal for measurements in difficult-to-access locations	0600 9770
<b>Probe accessories and probe filter</b>	<b>Order no.</b>
Modular probe shaft; length 180 mm; Ø 8 mm; Tmax. +500 °C	0554 9760
Modular probe shaft; length 300 mm; Ø 8 mm; Tmax. +500 °C	0554 9761
Probe shaft; length 335 mm; including cone; Ø 8 mm; Tmax. +1,000 °C	0554 8764
Probe shaft; length 700 mm; including cone; Ø 8 mm; Tmax. +1,000 °C	0554 8765
Flexible probe shaft; length 330 mm; Ø 9 mm; Tmax. +180 °C	0554 9770
Hose extension; 2.8 m; probe-instrument extension tube	0554 1202
Spare dirt filter, modular probe, 10 off	0554 3385
Spare dirt filter, compact probe, 10 off	0554 0040
<b>More probes and accessories</b>	<b>Order no.</b>
Dual wall clearance probe for O <sub>2</sub> air input measurement	0632 1260
Ambient CO probe (digital), fixed cable	0632 1272
Solid fuel kit, including probe shaft, adapter	0600 9765
Hose connection kit with adapter for testo 300 for separate gas pressure measurement	0554 1203
Pressure connection hose, single, Ø 4/6 mm	0554 0449
Pressure test kit for gas pipe test, testo 300, testo 330-1/-2 LL version 2010	0554 1213
<b>Temperature probes</b>	<b>Order no.</b>
Combustion air temperature probe with 190 mm probe shaft incl. cone and magnets for attachment	0600 9799
Clamp probe with NTC temperature sensor for measurements on pipes (Ø 6 to 35 mm)	0615 5505
Pipe wrap probe (NTC) for pipe diameters from 5 to 65 mm	0615 5605
Waterproof immersion/penetration probe with NTC temperature sensor	0615 1212
Temperature probe with Velcro (NTC)	0615 4611

## Technical data

Measurement parameter	Measuring range	Accuracy ( $\pm 1$ digit)	Resolution
<b>O<sub>2</sub> measurement</b>	0 to 21 vol. %	$\pm 0.2$ vol. %	0.1 vol. %
<b>CO measurement (without H<sub>2</sub> compensation)</b>	0 to 4,000 ppm	$\pm 20$ ppm (0 to 400 ppm) $\pm 5$ % of m.v. (401 to 2,000 ppm) $\pm 10$ % of m.v. (2,001 to 4,000 ppm)	1 ppm
<b>CO measurement (with H<sub>2</sub> compensation)</b>	0 to 8,000 ppm	$\pm 10$ ppm or $\pm 10$ % of m.v. (0 to 200 ppm) $\pm 20$ 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
<b>CO measurement (with H<sub>2</sub> compensation and dilution)</b>	0 to 30,000 ppm	$\pm 100$ ppm or $\pm 10$ % of m.v.	1 ppm
<b>NO measurement</b>	0 to 3,000 ppm	$\pm 5$ 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
<b>Efficiency testing (Eta)</b>	0 to 120 %		0.1 %
<b>Flue gas loss</b>	0 to 99.9 %		0.1 %
<b>CO<sub>2</sub> determination (digital calculation from O<sub>2</sub>)</b>	Display range 0 to CO <sub>2</sub> max.	$\pm 0.2$ vol. %	0.1 vol. %
<b>Draught measurement</b>	-9.99 to +40 hPa	$\pm 0.005$ hPa (0 to 0.1 hPa) $\pm 0.02$ 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)
<b>Pressure measurement</b>	-100 to +200 hPa	$\pm 0.5$ 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
<b>Temperature (instrument)</b>	-40 to +1,200 °C	$\pm 0.5$ °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)
<b>Ambient CO measurement (internal/flue gas probe)</b>	0 to 2,000 ppm	$\pm 10$ ppm (0 to 100 ppm) $\pm 10$ % of m.v. (101 to 2,000 ppm)	1 ppm
<b>Ambient CO measurement (external with CO probe)</b>	0 to 500 ppm	$\pm 3$ ppm (0 to 29 ppm) $\pm 10$ % of m.v. (30 to 500 ppm)	1 ppm

### General technical data

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 million measuring values	
Display	5.0" touch display, HD 1280*720 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 <sub>2</sub> , CO sensor	36 months
	Thermocouple and rechargeable battery	12 months
testo 300 Longlife warranty	Instrument/probe/gas sensors	
	O <sub>2</sub> , CO sensor	60 months
	NO, NO <sub>low</sub> , CO <sub>low</sub> sensor	24 months
	Thermocouple and rechargeable battery	12 months
Warranty terms	<a href="https://www.testo.com/guarantee">https://www.testo.com/guarantee</a>	