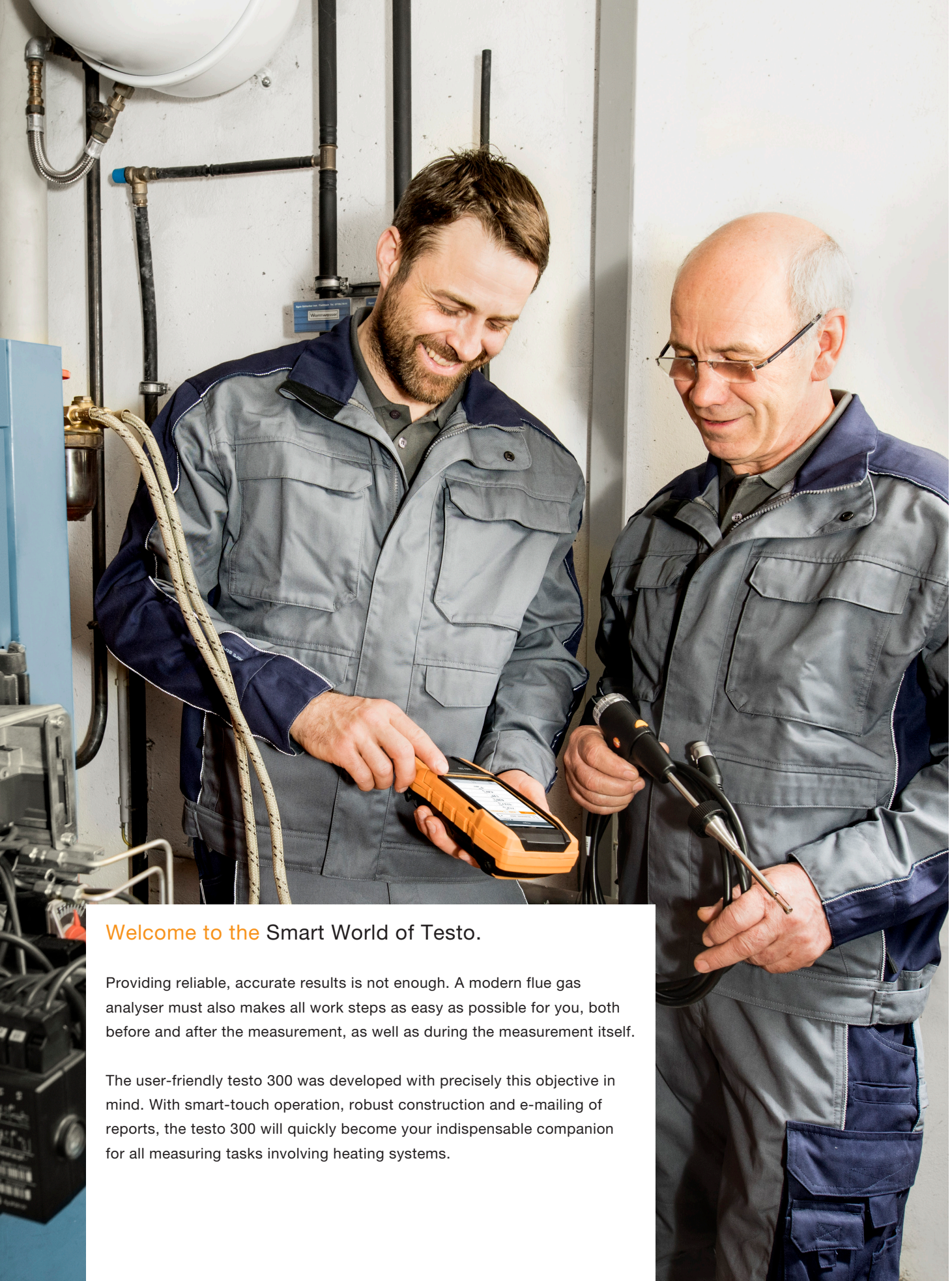


Be sure. **testo**



# Truly smart flue gas measurement.

The new testo 300 flue gas analyser with smart-touch technology.



## Welcome to the Smart World of Testo.

Providing reliable, accurate results is not enough. A modern flue gas analyser must also make all work steps as easy as possible for you, both before and after the measurement, as well as during the measurement itself.

The user-friendly testo 300 was developed with precisely this objective in mind. 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 systems.

## Truly practical: The advantages.



### 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.

### Fast 'on-site' reporting

Customer site information and contact details stored directly in the analyser

### 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.

### testo 300 for every boiler

Choose from testo 300 or testo 300LL. Handy kits configured with standard sensors and accessories for servicing domestic boilers, or testo 300LL with longlife sensors, CO dilution and modular probe for commercial boilers.

### Completely worry-free

The testo 300LL 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.

## Get 1 year's additional warranty!

When you register your new testo 300 at [www.testo.com](http://www.testo.com)  
Standard warranty is 2 years for testo 300 and 4 years for testo 300LL

# Truly robust: The construction.

Smart measuring technology is of little benefit if it does not keep going in tough day-to-day working conditions. Because your flue gas analyser is a partner that supports you every day in the efficient, problem-free performance of your tasks. This is why the testo 300 has a particularly resilient and high-quality construction. So you can rely on it to meet the challenges of workshops, transport vehicles and boiler rooms.

### Protected display

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



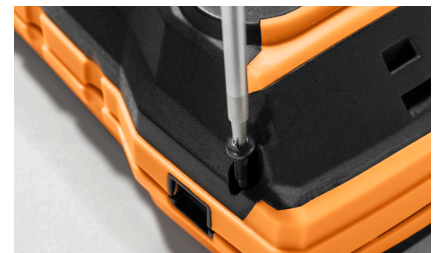
### Secure mounting

4 strong magnets with rubber coating – particularly material friendly.



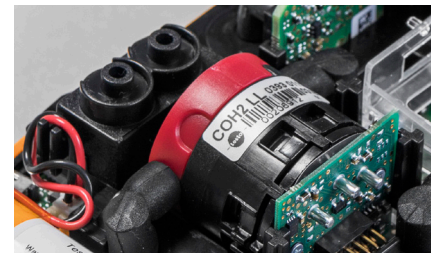
### Bolted housing

For that extra degree of stability when it really matters.



### Robust sensors

Optional: extremely durable O<sub>2</sub> sensor and automatic dilution up to 30,000 ppm CO.



# Truly flexible: Instrument configuration and probe system.

## A flue gas analyser perfectly tailored to your needs

The testo 300 doesn't just give you smart operation – the configuration also has that certain something. In addition to O<sub>2</sub> and CO sensors, the testo 300LL also has a third sensor slot which can be upgraded for optional measurement of NO<sub>x</sub>.



## Versatile probes – quickly changed

### One handle for a variety of probes

A variety of probe shafts can easily be attached to the multi-functional handle (supplied as standard with testo 300LL). 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

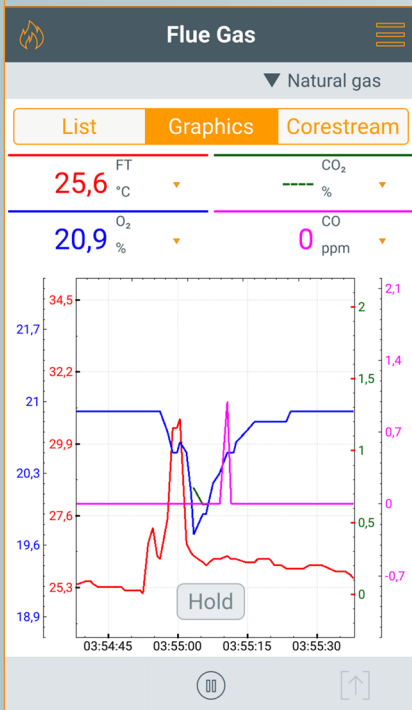
The testo 300 provides an interface with a variety of industry software. This enables you to access the testo 300's readings with your terminal devices and tools and to document them or further process them in your industry software.



# Truly intuitive: **The menus.**

## Flue gas values as a graphic

See all the readings in a graphic progression display – and identify, for instance, visually check the effects or air-fuel adjustment to achieve optimum safe performance.



## 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.



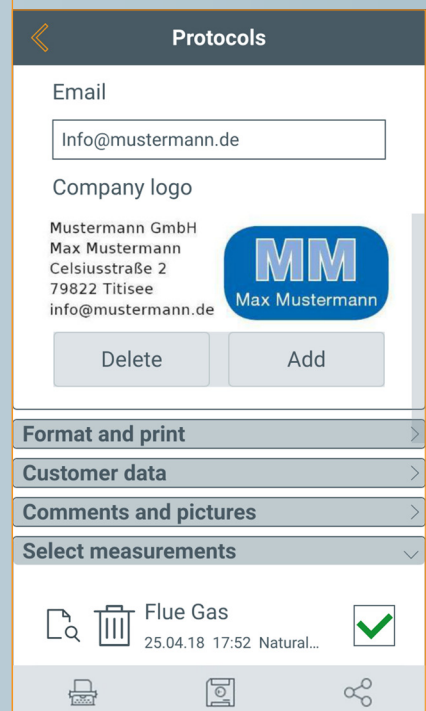
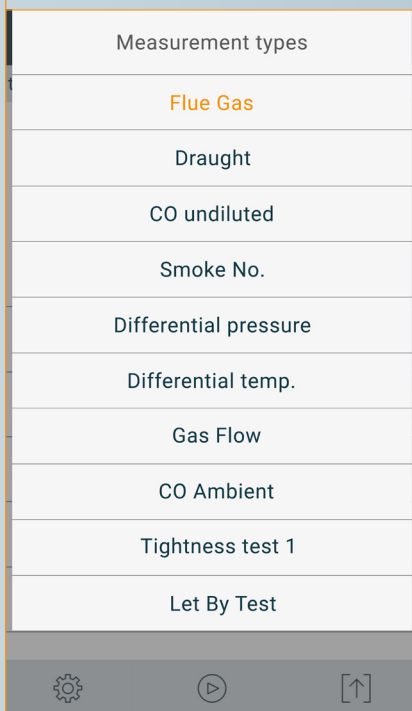
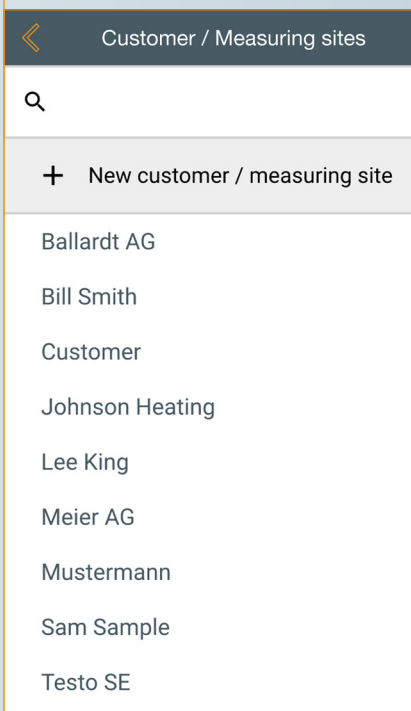
### Customers/measuring points

Integrated address book with details of the relevant heating system (e.g. manufacturer, system type, system name, serial number, 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.




## testo 300 kits.

testo 300 kits - for domestic boiler servicing and commissioning			
	testo 300 standard kit	testo 300 standard + printer kit	testo 300 advanced kit
Order no.	0564 3002 70	0564 3002 71	0564 3002 81
testo 300, including mains unit	O <sub>2</sub> , CO 4,000 ppm	O <sub>2</sub> , CO 4,000 ppm	O <sub>2</sub> , CO 4,000 ppm
Probe, including 10 spare filters	Compact flue gas probe (180 mm, Ø 6 mm)	Compact flue gas probe (180 mm, Ø 6 mm)	Compact flue gas probe (180 mm, Ø 6 mm)
Printer, including spare paper	–	✓	✓
testo EasyHeat PC software	✓	✓	✓
Instrument bag	✓	✓	✓
Pipe clamp probes for differential temperature	–	–	✓
Pressure hose connection set	–	–	✓
Warranty	2 years	2 years	2 years



testo 300 standard + printer kit

testo 300 longlife kits - for commercial boiler servicing and commissioning		
	testo 300 LL standard kit	testo 300 LL printer kit
Order no.	0564 3004 82	0564 3004 89
Instrument including mains unit	O <sub>2</sub> , CO H <sub>2</sub> , 30,000 ppm, NO sensor - can be retrofitted	O <sub>2</sub> , CO H <sub>2</sub> , 30,000 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)
Printer, including spare paper	–	✓
testo EasyHeat PC software	✓	✓
Instrument case	✓	✓
Warranty	4 years	4 years



testo 300 LL printer kit



# Accessories.

<b>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 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

<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

# Probes.

<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>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>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
Flexible probe shaft; length 330 mm; Ø 9 mm; Tmax. +180°C	0554 9770
Multi-hole probe shaft; length 300 mm; Ø 8 mm; for CO mean value calculation	0554 5762
Multi-hole probe shaft; length 180 mm; Ø 8 mm; for CO mean value calculation	0554 5763
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
Cone with spring clamp and handle option, Tmax. +200°C, Teflon material, Ø 6 mm	0554 3327
Cone with spring clamp and handle option, Tmax. +200°C, Teflon material, Ø 8 mm	0554 3328
<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
Capillary hose kit for 4 Pa measurement (can only be used in combination with 0554 1203)	0554 1215
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>
Robust combustion air probe with NTC temperature sensor	0615 1712
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

## The 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. (2001 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>Combustion ratio (calculated)</b>	-	-	0.0001
<b>NO measurement optional upgrade</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 mbar	$\pm 0.005$ mbar (0 to 0.1 mbar) $\pm 0.02$ mbar (0.1 to +3.00 mbar) $\pm 1.5\%$ of m.v. (+3.01 to +40 mbar)	0.001 mbar (0 to 0.1 mbar) 0.01 mbar (remaining meas. range)
<b>Pressure measurement</b>	-100 to 200 mbar	$\pm 0.5$ mbar (0 to +50.0 mbar) $\pm 1\%$ of m.v. (+50.1 to +100.0 mbar) $\pm 1.5\%$ of m.v. (+100.1 to +200 mbar)	0.01 mbar
<b>Temperature (instrument)</b>	-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)
<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 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 Longlife warranty	Instrument/probe/gas sensors	
	O <sub>2</sub> , CO sensor	48 months
	NO sensor	24 months
	Thermocouple and rechargeable battery	12 months
Warranty terms	<a href="https://www.testo.com/guarantee">https://www.testo.com/guarantee</a>	



Subject to change, including technical changes.

08.2018

