Be sure. **testo**

Testo 300 and 300LL flue gas analyser

Truly smart flue gas measurement.

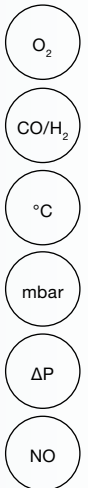Large scratch-resistant 5" HD display with smart-touch operation

Stored, intuitive menus for all relevant measurements

4 strong magnets with rubber coating for material friendly mounting

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

Extremely durable O_2 sensor and automatic dilution (with testo 300LL) up to 30,000 ppm CO

Measurement reports created and sent via bluetooth or email

O_2

CO/H_2

°C

mbar

ΔP

NO

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.

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.

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
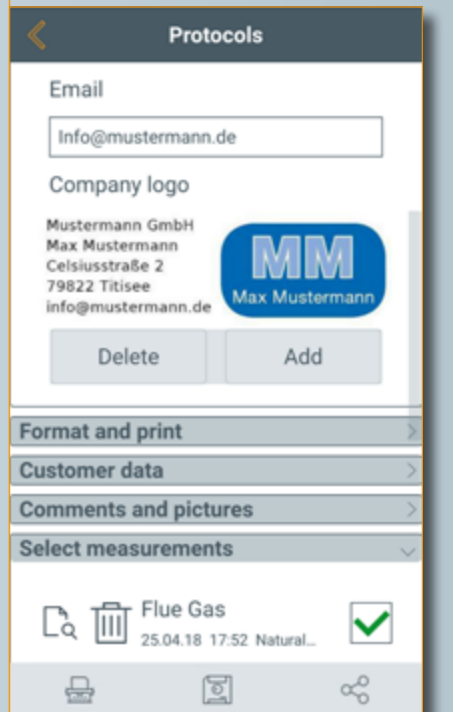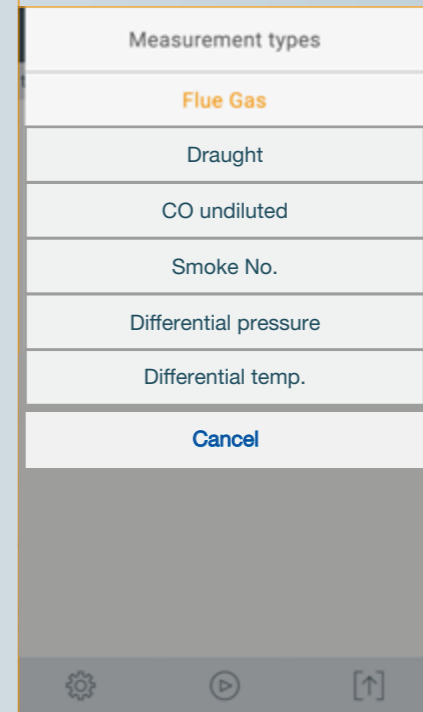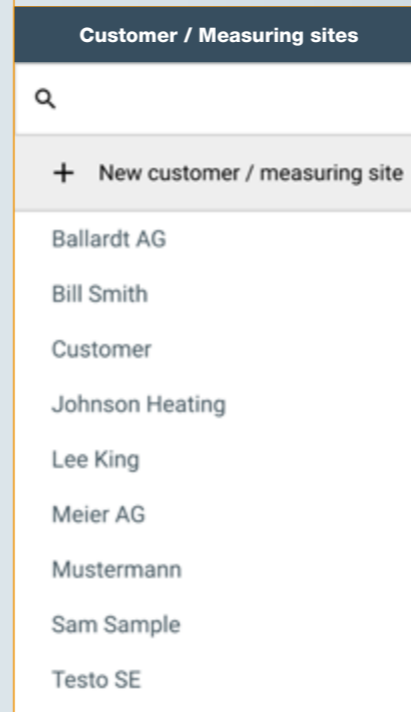
Intuitive measurement menus

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			
	testo 300 **Standard Kit**	**testo 300** **Advanced Kit**	**testo 300** **Handset only**
Order no.	0564 3002 90	0564 3002 91	0633 3002 78
Instrument, including mains unit	O_2, CO, 4,000 ppm, NO sensor can be retrofitted	O_2, CO, 4,000 ppm, NO sensor can be retrofitted	O_2, 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	➖	✅	➖
nstrument bag	✅	✅	➖
Warranty	2 years	2 years	2 years

testo 300 Longlife kits			
	testo 300 **Longlife Standard kit**	**testo 300** **Longlife Standard kit with printer**	**testo 300** **Longlife NOx kit with printer**
Order no.	0564 3004 82	0564 3004 89	0564 3004 84
Instrument, including mains unit	O_2, CO H_2, 10,000 ppm, NO sensor can be retrofitted	O_2, CO H_2, 10,000 ppm, NO sensor can be retrofitted	O_2, CO H_2, 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

Kit components may differ

Probes and accessories

testo 300 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 1106

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

Compact flue gas probes	Order no.
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

Modular flue gas probes	Order no.
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

Probe accessories and probe filter	Order no.
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

More probes and accessories	Order no.
Dual wall clearance probe for O_2 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

Temperature probes	Order no.
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 (±1 digit)	Resolution
O_2 measurement	0 to 21 vol. %	±0.2 vol. %	0.1 vol. %
CO measurement (without H_2 compensation)	0 to 4,000 ppm	±20 ppm (0 to 400 ppm) ±5 % of m.v. (401 to 2,000 ppm) ±10 % of m.v. (2,001 to 4,000 ppm)	1 ppm
CO measurement (with H_2 compensation)	0 to 8,000 ppm	±10 ppm or ± 10 % of m.v. (0 to 200 ppm) ±20 ppm or ± 5 % of m.v. (201 to 2,000 ppm) ±10 % of m.v. (2,001 to 8,000 ppm)	1 ppm
CO measurement (with H_2 compensation and dilution)	0 to 30,000 ppm	±100 ppm or ± 10 % of m.v.	1 ppm
NO measurement	0 to 3,000 ppm	±5 ppm (0 to 100 ppm) ±5 % of m.v. (101 to 2,000 ppm) ±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 %
CO_2 determination (digital calculation from O_2)	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) ±1.5 % of m.v. (+3.01 to +40 hPa)	0.001 hPa (0 to 0.1 hPa) 0.01 hPa (remaining meas. range)
Pressure measurement	-100 to +200 hPa	±0.5 hPa (0 to +50.0 hPa) ±1 % of m.v. (+50.1 to +100.0 hPa) ±1.5 % of m.v. (+100.1 to +200 hPa)	0.01 hPa
Temperature (instrument)	-40 to +1,200 °C	±0.5 °C (0.0 to +100.0 °C) ±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) ±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) ±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_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, NO_{low}, CO_{low} sensor 24 months Thermocouple and rechargeable battery 12 months
Warranty terms	https://www.testo.com/guarantee

Subject to change without notice.

www.testo.co.uk