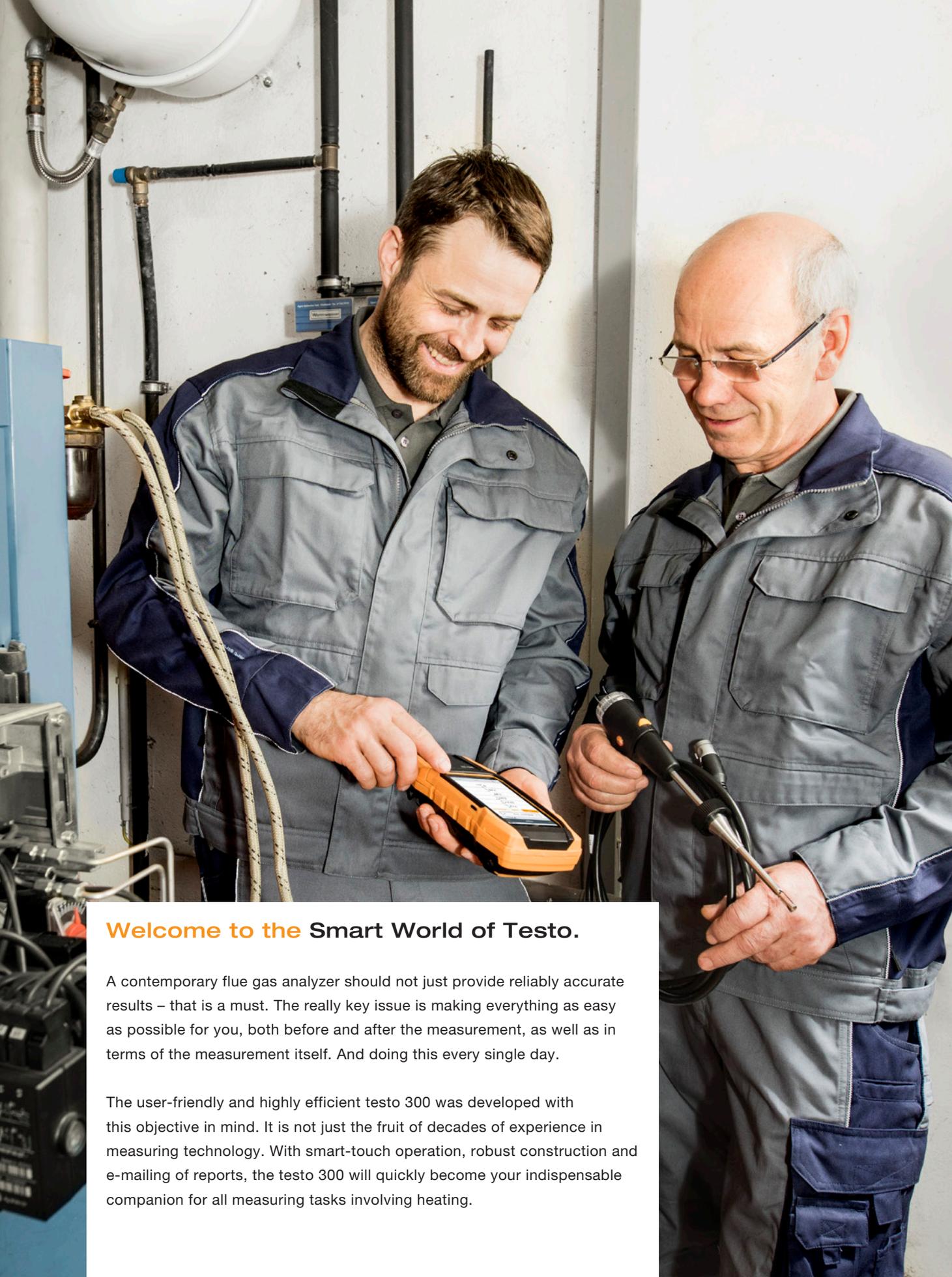Be sure. **testo**

testo 300

testo

SmartTouch

Flue gas measurement
truly smart.

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

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 expedient: The advantages.

Flue Gas

▼ Natural gas

👤 Sample - Cellar ▼

| List | Graphics | Corestream |

77,3 °C FT

12,17 % CO₂

6,30 % qAgr.

1,27 λ

4,40 % O₂

9 ppm CO

SmartTouch

testo 300

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.

Get 1 year's additional warranty!
Just register at www.testo.com

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 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.

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

Secure mounting
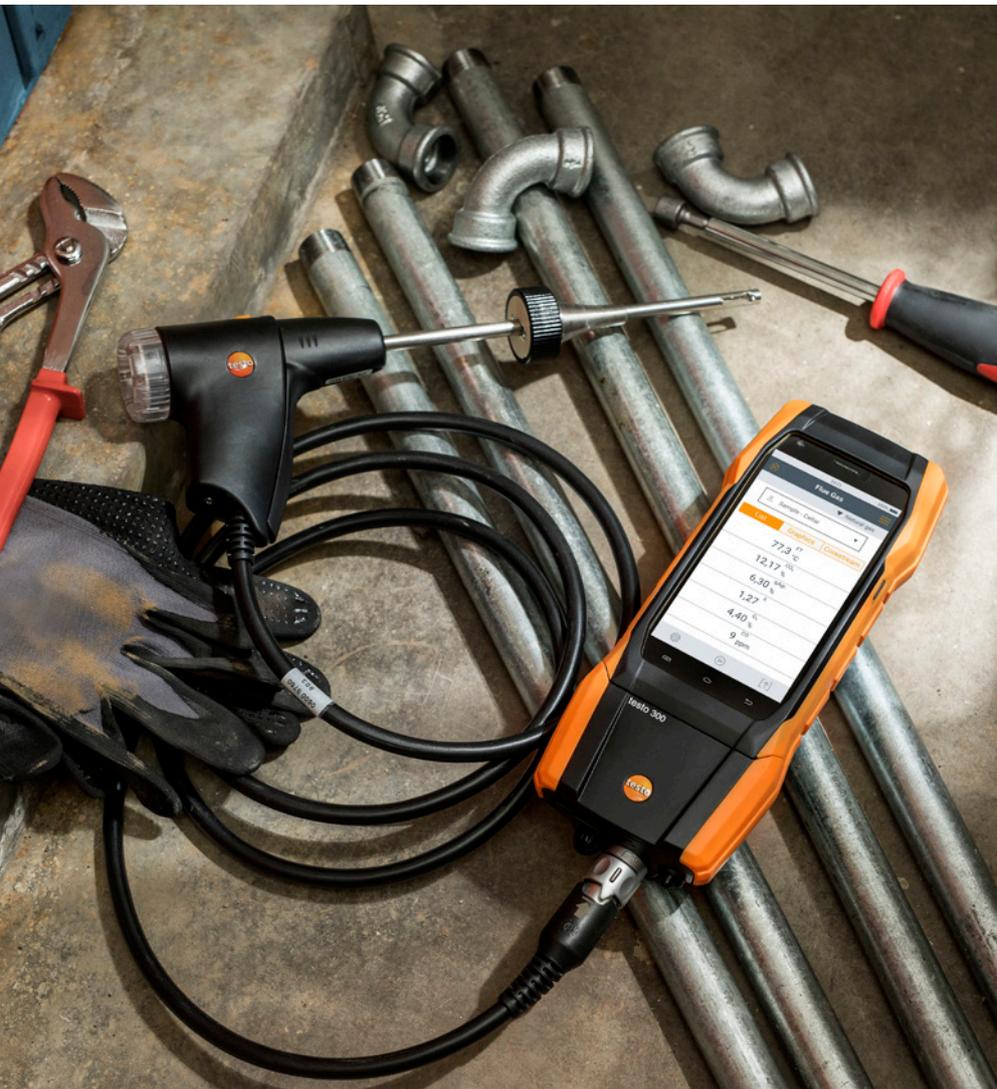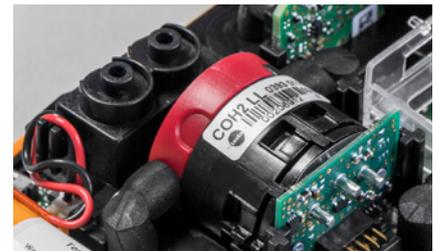4 strong magnets with rubber coating – particularly material friendly.

Bolted housing
For that extra degree of stability when it really matters.

Robust sensors
Optional: extremely durable O_2 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 O_2 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.

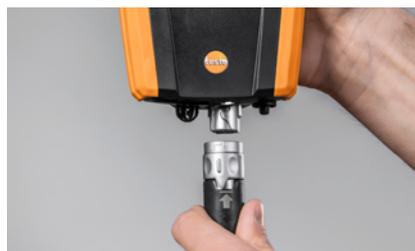## Versatile probes – quickly changed

One handle for a variety of probes

A variety of probe shafts can easily be attached to the multi-functional handle. 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.
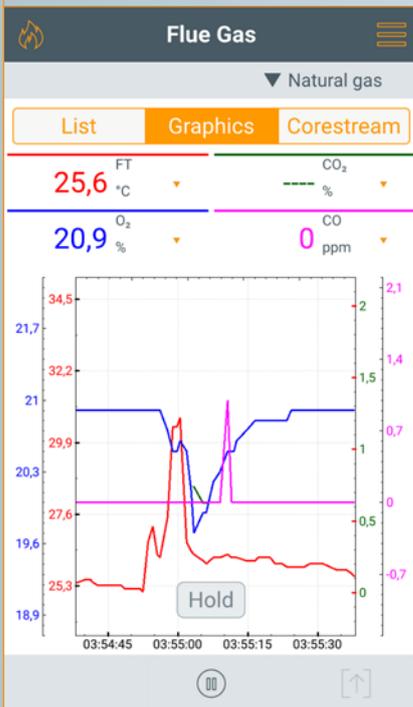
testo interface function

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.

testo App to App Interface

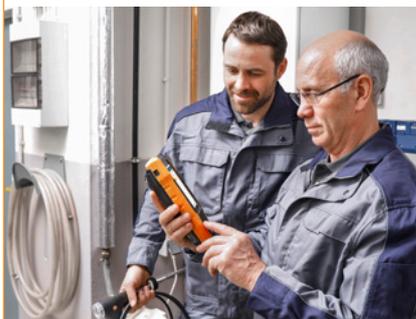# Truly intuitive: The menus.

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.
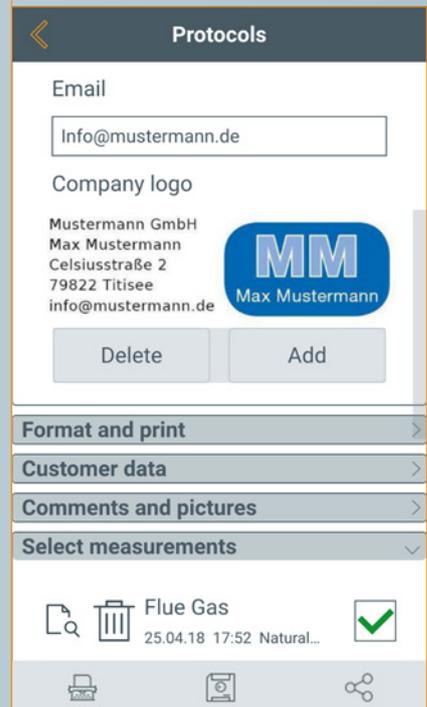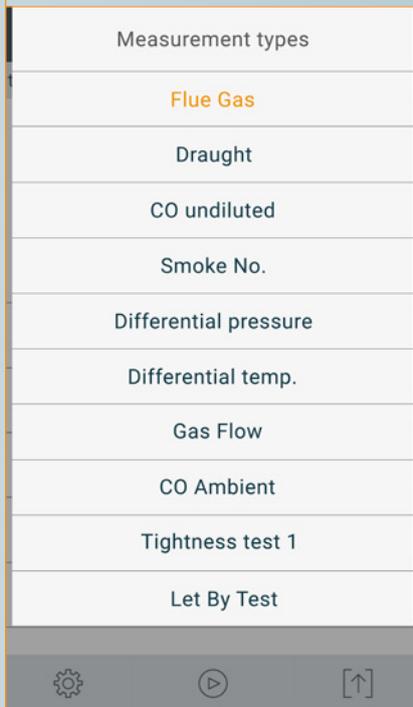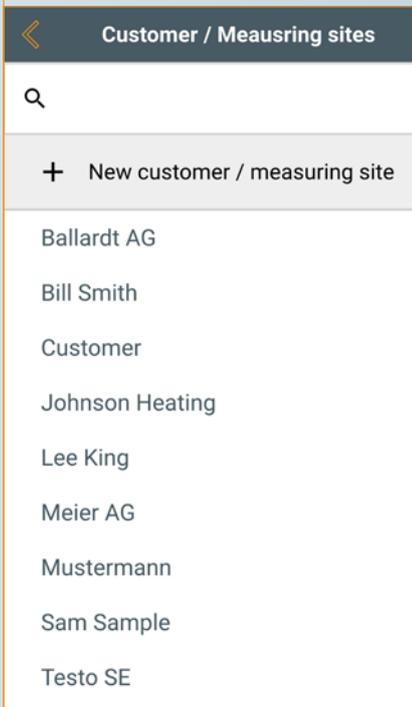
Customers/measuring points

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.

Customer / Meausring sites

🔍

➕ New customer / measuring site

Ballardt AG

Bill Smith

Customer

Johnson Heating

Lee King

Meier AG

Mustermann

Sam Sample

Testo SE

Measurement types

Flue Gas

Draught

CO undiluted

Smoke No.

Differential pressure

Differential temp.

Gas Flow

CO Ambient

Tightness test 1

Let By Test

Protocols

Email

Info@mustermann.de

Company logo

Mustermann GmbH
Max Mustermann
Celsiusstraße 2
79822 Titisee
info@mustermann.de

MM
Max Mustermann

Delete   Add

Format and print

Customer data

Comments and pictures

Select measurements

Flue Gas
25.04.18 17:52 Natural... ✓

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

Suitable kits.

testo 300 kits

	testo 300 kit 1	testo 300 kit 1 with printer	
Order no.	0564 3002 70	0564 3002 71	
Instrument, including mains unit	O_2, CO, 4,000 ppm,	O_2, 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)	
Printer, including spare paper	➖	✅	
testo EasyHeat PC software	✅	✅	
Instrument bag	✅	✅	
Warranty	2 years	2 years	Illustration may differ from original

testo 300 Longlife kits

	testo 300 Longlife kit 1	testo 300 Longlife kit 1 with printer	testo 300 Longlife kit 2	testo 300 Longlife kit 2 with printer
Order no.	0564 3004 70	0564 3004 71	0564 3004 82	0564 3004 83
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 H_2, 30,000 ppm, NO sensor - can be retrofitted	O_2, CO H_2, 30,000 ppm, NO sensor - can be retrofitted
Probe including 10 spare filters	Compact flue gas probe (180 mm, Ø 6 mm)	Compact flue gas probe (180 mm, Ø 6 mm)	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	4 years	4 years

Illustration may differ from original

Probes and accessories.

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

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

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
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

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
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

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

The 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. (2001 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 (without H_2 compensation and dilution)	0 to 15,000 ppm	±200 ppm or ± 20% of m.v.	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)
4 Pa measurement (for instruments with dilution)	-50 to +50 Pa	±0.3 Pa (< 10 Pa) ±3% of m.v. (remaining meas. range)	0.1 Pa
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 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
Warranty terms	https://www.testo.com/guarantee

2981 8414/olba/09.2018   Subject to change, including technical changes.

www.testo.com