

# Combustion analyzer

**testo 300**  
truly smart combustion measurement.

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Large scratch-resistant 5" HD display with smart-touch operation and replaceable protective film

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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

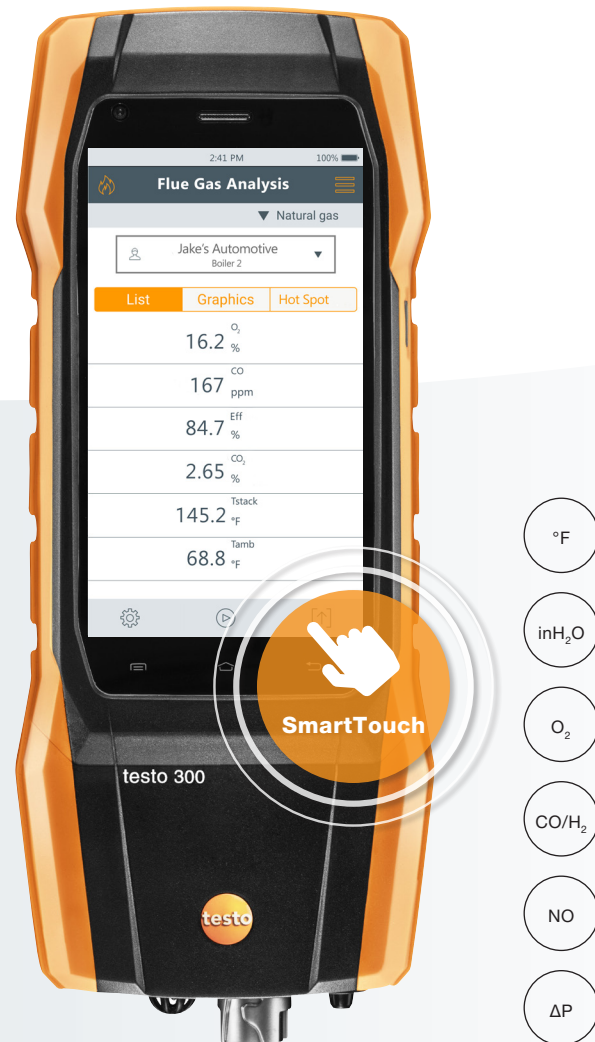
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Optional: extremely durable O<sub>2</sub> sensor and automatic dilution up to 30,000 ppm CO

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E-mailing of reports directly on site

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Truly smart combustion analysis: that is what the testo 300 stands for. The compact combustion analyzer is fully operated via the large touch display - you can see all the measuring values without scrolling. The scratch-resistant screen is embedded in a robust housing which remains reliable even in tough 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 combustion 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, with WiFi connection. The testo 300 is available with a 2-year or 4-year warranty. There is also an optional NO<sub>x</sub> sensor available. The O<sub>2</sub> sensor, is extremely durable and in the Pro models, an optional automatic dilution up to a maximum of 30,000 ppm CO protects the CO sensor.

## Truly smart: The new testo 300 combustion analyzer.

Providing reliably accurate results is not enough. A contemporary combustion 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 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

### E-mailing of reports

The testo 300 enables the convenient creation of documentation directly on site. And the dictation function even saves you typing in the process. You can send reports to the office or customers immediately via WiFi

### Keep an eye on all the measuring values

You can see all the system's parameters right 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 right 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, measures high CO values up to 30,000 ppm and is future-proofed thanks to NO preparation.



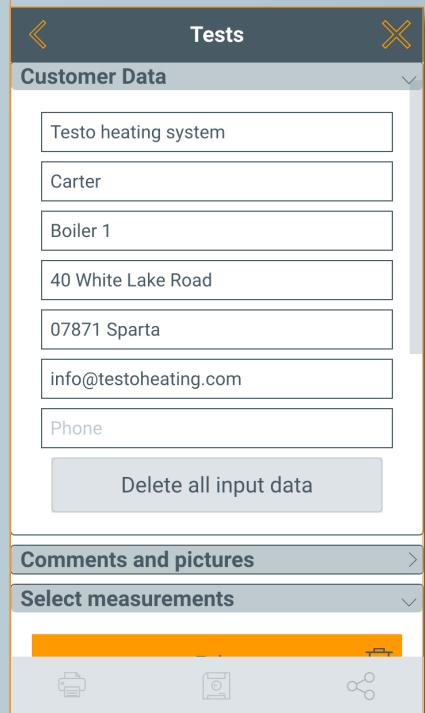
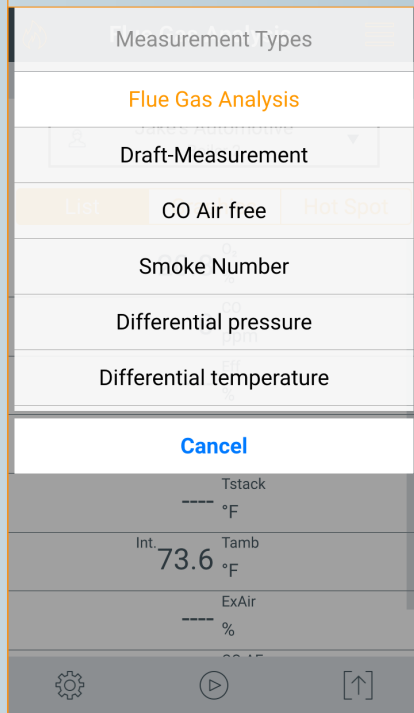
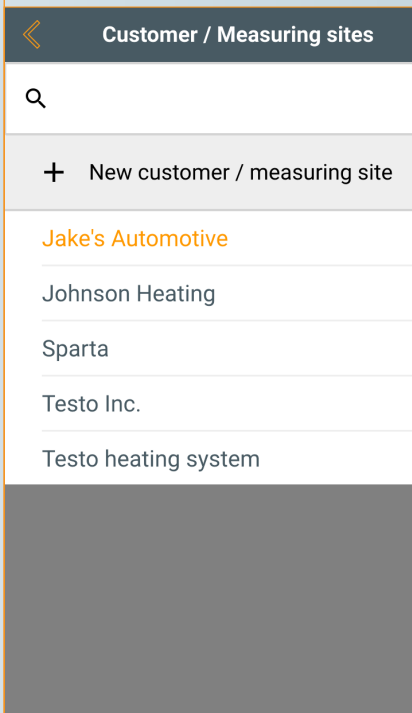
**Customers / Measuring site**

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 reports with all the information about readings, customers and heating systems directly on site, add comments to them, have the reports confirmed by the customer's signature and send the tests. 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 readily available.




**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.



# Combustion Analyzer kits

testo 300 kits			
Order no.	<b>testo 300 Residential / Commercial Kit</b> 0564 3002 82	<b>testo 300 Residential / Commercial Kit with Printer</b> 0564 3002 83	 <p>Illustration differs depending on kit type</p>
Instrument, including power supply	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 (12 in., Ø 0.25 in.)	Compact flue gas probe (12 in., Ø 0.25 in.)	
Printer, including spare paper	✘	✔	
testo EasyHeat PC software	✔	✔	
Instrument bag	✔	✔	
Warranty	2 years	2 years	

testo 300 Pro kits			
Order no.	<b>testo 300 Pro Commercial Kit</b> 0564 3004 92	<b>testo 300 Pro Commercial Kit with Printer</b> 0564 3004 93	 <p>Illustration differs depending on kit type</p>
Instrument including power supply	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 including 10 spare filters	Modular flue gas probe (12 in., Ø 0.25 in)	Modular flue gas probe (12 in., Ø 0.25 in)	
Printer including spare paper	✘	✔	
testo EasyHeat PC software	✔	✔	
Instrument case	✔	✔	
Warranty	4 years	4 years	

testo 300 Pro kits (CO - 30,000 ppm with Dilution)			
Order no.	<b>testo 300 Pro Commercial / Industrial Kit with CO (up to 30,000 ppm), NO, and Printer</b> 0564 3004 96		 <p>Testo 300 Pro with CO (30,000ppm), NO and Printer (0564 3994 96)</p>
Instrument including power supply	O <sub>2</sub> , CO, 30,000 ppm, NO sensor		
Probe including 10 spare filters	Modular flue gas probe (12 in., Ø 0.25 in)		
Printer including spare paper		✔	
testo EasyHeat PC software		✔	
Instrument case		✔	
Warranty		4 years	

# Reference guide

Previous		New	
<b>testo 320</b>		<b>testo 300 Combustion Analyzer</b>	<b>Sensor warranty</b>
	<p><b>testo 320 – Combustion analyzer kit</b> O<sub>2</sub>, CO (0-4,000 ppm), hard case</p> <p>Part No. 0563 3220 70</p>	<p><b>testo 300 – Residential / Commercial Combustion Analyzer Kit</b> O<sub>2</sub>, CO (0-4,000 ppm), soft case</p> <p>Part No. 0564 3002 82</p>	2 years
	<p><b>testo 320 – Combustion analyzer kit</b> O<sub>2</sub>, CO (0-4,000 ppm), hard case, printer</p> <p>Part No. 0563 3220 71</p>	<p><b>testo 300 – Residential / Commercial Combustion Analyzer Kit with Printer</b> O<sub>2</sub>, CO (0-4,000 ppm), soft case, printer</p> <p>Part No. 0564 3002 83</p>	2 years
			
<b>testo 330-1</b>		<b>testo 300 Pro Combustion Analyzer</b>	<b>Sensor warranty</b>
	<p><b>testo 330-1 LX – Commercial combustion analyzer kit 1</b> O<sub>2</sub>, CO (0-4,000 ppm), 3rd socket, hard case</p> <p>Part No. 0563 3371 70</p>	<p><b>testo 300 Pro - Commercial Combustion Analyzer Kit</b> O<sub>2</sub>, CO (0-4,000 ppm), 3rd socket, hard case</p> <p>Part No. 0564 3004 92</p>	4 years
	<p><b>testo 330-1 LX – Commercial combustion analyzer kit 2 with printer</b> O<sub>2</sub>, CO (0-4,000 ppm), 3rd socket, hard case, printer</p> <p>Part No. 0563 3371 75</p>	<p><b>testo 300 Pro - Commercial Combustion Analyzer Kit with Printer</b> O<sub>2</sub>, CO (0-4,000 ppm), 3rd socket, hard case, printer</p> <p>Part No. 0564 3004 93</p>	4 years
			
<b>testo 330-2</b>		<b>testo 300 Pro Combustion Analyzer</b>	<b>Sensor warranty</b>
	<p><b>testo 330-2 LX – Industrial combustion analyzer Kit 1</b> O<sub>2</sub>, CO (0-8,000 ppm w/ dilution to 30,000 ppm), 3rd socket, hard case</p> <p>Part No. 0563 3372 71</p>	<p><b>testo 300 Pro – Commercial / Industrial Combustion Analyzer Kit with Printer and NOx measurement</b> O<sub>2</sub>, CO (0-8,000 ppm w/ dilution to 30,000 ppm), NO<sub>x</sub> sensor, hard case, printer</p> <p>Part No. 0564 3004 96</p>	4 years
	<p><b>testo 330-2 LX – Industrial combustion analyzer Kit 2 with NOx measurement</b> O<sub>2</sub>, CO (0-8,000 ppm w/ dilution to 30,000 ppm), NO<sub>x</sub> sensor, hard case</p> <p>Part No. 400563 3372</p>		
			

**Spare gas sensors/retrofitting**

	<b>Order no.</b>
O <sub>2</sub> sensor, with 4-year warranty	0393 0023
CO sensor (without H <sub>2</sub> compensation), with 4-year warranty	0393 0051
CO sensor (without H <sub>2</sub> compensation), with 2-year warranty	0393 0053
CO sensor, H <sub>2</sub> -compensated, with 4-year warranty	0393 0101
CO sensor, H <sub>2</sub> -compensated, with 2-year warranty <b>**SPECIAL ORDER**</b>	0393 0105
NO sensor	0393 0151

**Accessories**

	<b>Order no.</b>
testo Bluetooth®printer, including 1 roll of thermal paper, rechargeable battery and power supply	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 power supply, including USB cable	0554 1106
testo EasyHeat PC software for displaying measurements as diagrams, tables, and for customer data management.	0554 3332
ISO calibration certificate for flue gas	0520 0003

**Cases and carrying bags**

	<b>Order no.</b>
Instrument case (height: 5.11 inch (130 mm)) for instrument, probes and accessories	0516 3300
Instrument case with double base (height: 7.09 (180 mm)) for instrument, probes and accessories	0516 3301
testo 300 instrument bag with carrying strap	0516 3001

# Probes and accessories

<b>Modular flue gas probes</b>	<b>Order no.</b>
Modular flue gas probe, including cone for fixing; thermocouple NiCr-Ni; hose 7.2 feet; dirt filter; length 7 inch; Ø 0.3125 inch; Tmax. 932 °F	0600 9760
Modular flue gas probe, including cone for fixing; thermocouple NiCr-Ni; hose 7.2 feet; dirt filter; length 12 inch; Ø 0.3125 inch; Tmax. 932 °F	0600 9761
Modular flue gas probe, including cone for fixing; thermocouple NiCr-Ni; hose 7.2 feet; dirt filter; length 7 inch; Ø 0.25 inch; Tmax. 932 °F	0600 9762
Modular flue gas probe, including cone for fixing; thermocouple NiCr-Ni; hose 7.2 feet; dirt filter; length 12 inch; Ø 0.25 inch; Tmax. 932 °F	0600 9763
Flexible flue gas probe; thermocouple NiCr-Ni; hose 7.2 feet; dirt filter; length 13 inch; Ø .35 inch; Tmax. 356 °F; short-term 392 °F; 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, 7 inch, Ø 0.25 inch, Tmax. 932 °F	0600 9740
Compact basic flue gas probe, 12 inch, Ø 0.25 inch, Tmax. 932 °F	0600 9741

<b>Probe accessories and probe filter</b>	<b>Order no.</b>
Modular probe shaft; length 7 inch, Ø 0.3125 inch, Tmax. 932 °F	0554 9760
Modular probe shaft; length 12 inch, Ø 0.3125 inch, Tmax. 932 °F	0554 9761
Probe shaft; length 13.2 inch; including cone; Ø 0.3125 inch; Tmax. 1,832 °F	0554 8764
Flexible probe shaft; length 13 inch; Ø 0.35 inch; Tmax. 356 °F	0554 9770
Multi-hole probe shaft; length 12 inch; Ø 0.3125 inch; for CO mean value calculation	0554 5762
Multi-hole probe shaft; length 7 inch; Ø 0.3125 inch; for CO mean value calculation	0554 5763
Hose extension; 9 feet; probe-instrument extension tube	0554 1202
Spare dirt filter, modular probe, 10 count	0554 3385
Spare dirt filter, compact probe, 10 count	0554 0040
Cone with spring clamp and handle option, Tmax. 392 °F, Teflon material, Ø 0.25 inch	0554 3327
Cone with spring clamp and handle option, Tmax. 392 °F, Teflon material, Ø 0.3125 inch	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 0.15 inch / 0.24 inch	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 7.5 inch probe shaft incl. cone and magnets for attachment	0600 9799
Clamp probe with NTC temperature sensor for measurements on pipes (Ø 0.25 inch to 1.38 inch)	0615 5505
Pipe wrap probe (NTC) for pipe diameters from 0.2 inch to 2.65 inch	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 **SPECIAL ORDER** (without H<sub>2</sub> compensation and dilution)</b>	0 to 15,000 ppm	$\pm 200$ ppm or $\pm 20\%$ of m.v.	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>Draft measurement</b>	-10 to 40 inH <sub>2</sub> O	$\pm 0.002$ inH <sub>2</sub> O (0 to $\pm 0.04$ inH <sub>2</sub> O) $\pm 0.02$ hPa ( $\pm 0.04$ to $\pm 1.2$ inH <sub>2</sub> O) $\pm 1.5\%$ of m.v. (remaining meas. range)	0.0001 inH <sub>2</sub> O
<b>Pressure measurement</b>	-40 to 80 inH <sub>2</sub> O	$\pm 0.2$ inH <sub>2</sub> O (0 to $\pm 20$ inH <sub>2</sub> O) $\pm 1\%$ of m.v. ( $\pm 20.1$ to $\pm 40$ inH <sub>2</sub> O) $\pm 1.5\%$ of m.v. (remaining meas. range)	0.01 inH <sub>2</sub> O
<b>Temperature (instrument)</b>	-40 to 2,192 °F	$\pm 1$ °F (32 to 212 °F) $\pm 0.5$ % of m.v. (remaining meas. range)	0.1 °F (-40 to 1,831.82 °F) 1 °F (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

Storage temperature	-4 to 122 °F
Operating temperature	-23 to 113 °F
Charging temperature	32 to 113 °F
Humidity application range	15 to 90 %RH, not condensing
Power supply	Rechargeable battery, USB power supply
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. 1.76 lbs (0.8 kg)
Dimensions	L: 9.6 inch (244 mm) (including probe connection) H: 2.32 inch (59 mm) W: 3.86 inch (98 mm)
testo 300 warranty	Instrument/probe/gas sensors O <sub>2</sub> , CO sensor 24 months Thermocouple and rechargeable battery 12 months
testo 300 Pro 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>

