

# Combustion analyzer

Next Gen testo 300 Professional  
Next Gen testo 300 Smoke Edition

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Intuitive measurement menus with fast-response  
Smart-Touch display

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Efficient, wireless simultaneous measurement of up to  
four testo Smart Probes (115i, 510i, 915i)

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Practical second screen function and easy data integration  
into user-specific software

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Documentation on site and reports sent by e-mail  
via testo Smart App

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Wide variety of user changeable probes available

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The compact Next Gen testo 300 Professional and Smoke Edition Combustion Analyzers are operated completely via the large touch display. You can see all the measuring values straight away on this without scrolling. The particularly scratch-resistant screen is embedded in a robust plastic housing which stands up reliably to the rigors of everyday use. From standby mode, the combustion analyzer is ready to go at the touch of a button. Menus for the most important measurements are already stored and they guide you safely through the respective application. The testo Bluetooth® Connector enables the efficient, wireless measurement of up to four additional parameters in parallel: The testo 115i Smart Probe for flow and return temperature measurement, the testo 510i Smart Probe for gas flow and static gas pressure measurement, and the testo 915i Smart Probe for combustion air temperature measurement.

All measurements appear automatically on the display and can be started and stopped in parallel. Thanks to the testo Smart App and second-screen function, you can keep a constant eye on all the relevant measurement data, even over long distances between the measuring instrument and the burner control. Reports can be created and sent directly on site via the Next Gen testo 300 and integration in the testo Smart App. You can easily call up the measurements stored on your Next Gen testo 300 and transfer them to your in-house software (via the previously programmed interface) using the new QR code feature. The Next Gen testo 300 Professional includes a 4-year warranty, optional NO Sensor, and optional CO dilution (Pro only max. 30,000 ppm) protecting the CO sensor. The Next Gen testo 300 Smoke Edition Kits include 2 year warranty.

# Next Gen testo 300 – THERE'S NO ALTERNATIVE

**Why make measurements complicated when you can keep them simple?** The daily work routine is becoming more and more demanding. Time is getting scarcer, while processes are becoming more complex. On the other hand, some things unfortunately don't change: Instrument operation and documentation are cumbersome and time-consuming.

**Intuitive measurement menus**  
with responsive Smart-Touch display

**Efficient, wireless parallel measurement**  
of up to 4 Smart Probes simultaneously

**Practical 2nd screen function**  
Easy data integration into user-specific software

**Documentation on site**  
Reports sent by e-mail (via testo Smart App)

**Versatile probes**  
Easily user changeable

**Magnetic holder to secure the instrument**  
Robust workmanship

**Ready to measure immediately from standby mode**  
at the touch of a button

**Measurement report can be signed**  
on the instrument itself

**High-resolution color display**

But it doesn't have to be that way! Efficient, wireless measurement of up to four additional parameters in parallel via the testo Smart Probes – thanks to the new Next Gen testo 300! Featuring a practical second screen and intuitive operation – combustion analysis couldn't be easier.



testo Smart App  
for free download



## Intuitive measurement menus with fast-response Smart-Touch display

The Next Gen testo 300 makes flue gas measurement unbelievably easy thanks to its intuitive operation. The Smart-Touch display responds immediately without any delay. Intuitive operation – just as easy as on your smartphone.



## Efficient, wireless parallel measurement of up to 4 Smart Probes simultaneously

### Wireless parallel measurements in record time

Efficient, wireless measurement of up to four additional parameters in parallel via the testo Smart Probes:

- **testo 510i:** Differential pressure measuring instrument (measurement of gas flow or static pressure)
- **testo 115i:** Temperature measuring instrument (measurement of flow/return temperature with 2 Smart Probes)
- **testo 915i:** Combustion air temperature measurement (time-saving without wired probes or additional measuring instruments)



## Practical second screen function and easy data integration into user-specific software

Thanks to the practical second screen function and integration into the testo Smart App, you can keep a constant eye on all the relevant measurement data, even over long distances between the measuring instrument and the burner control – this saves time and unnecessary journeys. Integrating the data from all readings into your user-specific software is easy:

- **Option 1:** via universal QR code (ZIV-compatible)
- **Option 2:** via Wi-Fi/Bluetooth® / App-to-App with the testo 300



## Instrument models and accessories

Next Generation testo 300 Smoke Edition Sensor Compatibility						
Order no.	Longlife sensors	O <sub>2</sub> sensor	CO sensor	CO H <sub>2</sub> sensor	NO sensor retrofittable	Zeroing with probe in flue gas
0564 3002 82/83	–	✓	4,000 ppm	–	–	–

Next Generation testo 300 Professional Edition Sensor Compatibility						
Order no.	Longlife sensors	O <sub>2</sub> sensor	CO sensor	CO H <sub>2</sub> sensor	NO sensor retrofittable	Zeroing with probe in flue gas
0564 3004 92	✓	✓	4,000 ppm	–	✓ (Optional)	–
0564 3004 93	✓	✓	4,000 ppm	–	✓ (Optional)	–
0564 3004 96	✓	✓	30,000 ppm (with dilution)	✓	✓ (Included)	✓

### Extended life 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 <sub>2</sub> sensor, with 4-year warranty	0393 0023
CO sensor, with 4-year warranty	0393 0051
CO sensor, with 2-year warranty	0393 0053
CO sensor, H <sub>2</sub> -compensated, with 4-year warranty (For testo 300 Pro with CO 30,000 PPM ONLY)	0393 0101
NO sensor	0393 0151

Accessories	Order no.
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 pump, including oil and soot paper, for measuring soot in flue gas, excluding probe stop 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 measurement procedures as diagrams, tables and for customer data management.	0554 3332
ISO calibration certificate, flue gas	0520 0003

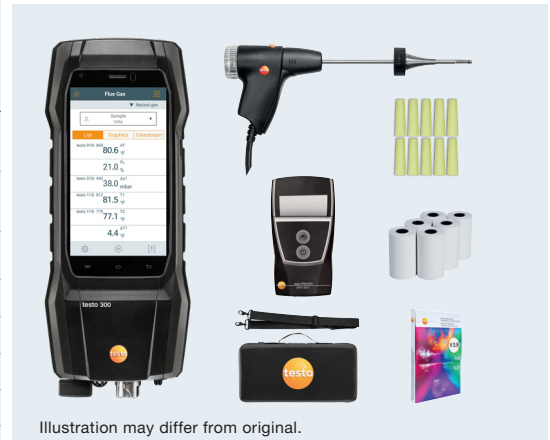
Cases and carrying bags	Order no.
Instrument case (height: 5.1 inches (130 mm)) for instrument, probes and accessories	0516 3300
Instrument case with double base (height: 7 inches (180 mm)) for instrument, probes and accessories	0516 3301
testo 300 instrument bag with carrying strap	0516 3001

testo Bluetooth® Connector	Order no.
testo Bluetooth® Connector for connecting the testo 300 Combustion Analyzer to testo Smart Probes	0554 3004
When you purchase a new Next Gen testo 300, the testo Bluetooth® Connector is included in the scope of delivery. The testo Bluetooth® Connector is only designed for connecting testo Smart Probes, and is compatible with existing testo 300..	

## Suitable kits

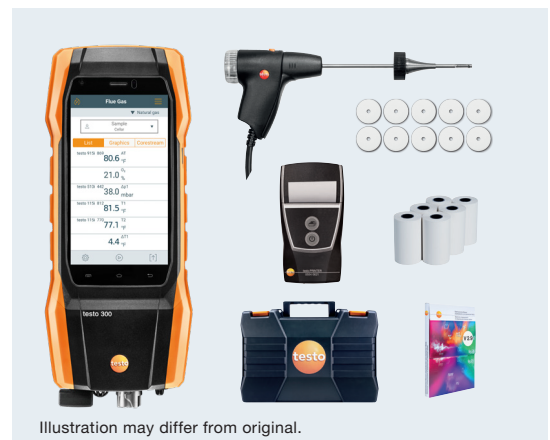
### Next Generation testo 300 Smoke Edition Kits

	<b>testo 300 Kit 1</b>	<b>testo 300 Kit 1 with printer</b>
Order no.	0564 3002 82	0564 3002 83
Instrument, including mains unit	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	✓	✓
Smart Probes compatible	✓	✓
Connection to Smart App	✓	✓
Warranty	2 years	2 years



### Next Generation testo 300 Professional Kits

	<b>testo 300 Professional Kit 1</b>	<b>testo 300 Professional Kit 1 with printer</b>	<b>testo 300 Professional Kit 2 with printer</b>
Order no.	0564 3004 92	0564 3004 93	0564 3004 96
Instrument, including power supply	O <sub>2</sub> , CO, (4,000 ppm), NO sensor retrofittable	O <sub>2</sub> , CO (4,000 ppm), NO sensor retrofittable	O <sub>2</sub> , CO (30,000 ppm), NO sensor installed
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.)	Modular flue gas probe (12 in, Ø 0.25 in.)
Printer, including spare paper	–	✓	✓
testo EasyHeat PC software	✓	✓	✓
Instrument case	✓	✓	✓
Smart Probes compatible	✓	✓	✓
Connection to Smart App	✓	✓	✓
Warranty	4 years	4 years	4 years



## 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 filters</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 off	0554 3385
Spare dirt filter, compact probe, 10 off	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 Ø 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

# testo Smart Probes

testo Smart Probes	Order no.
<b>testo 510i</b> , differential pressure measuring instrument with smartphone operation, including hose kit (Ø 4 mm and 5 mm) with adapter, batteries and calibration protocol	0560 1510
<b>testo 115i</b> , clamp thermometer with smartphone operation, for measurements on pipes of 6 to max. 35 mm diameter, including batteries and calibration protocol	0560 2115 03
Wireless Smart Probe <b>testo 915i</b> with flexible temperature probe (TC Type K), including batteries and calibration protocol	0563 4915

testo Bluetooth® Connector	Order no.
testo Bluetooth® Connector for connecting the testo 300 combustion analyzer to testo Smart Probes	0554 3004



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The testo Bluetooth® Connector is only designed for connecting testo Smart Probes, and is compatible with existing testo 300.

## Technical data

Measurement parameter	Measuring range	Accuracy (±1 digit)	Resolution
<b>O<sub>2</sub> measurement</b>	0 to 21 vol. %	±0.2 vol. %	0.1 vol. %
<b>CO measurement</b>	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
<b>CO measurement</b> (with H <sub>2</sub> compensation and dilution)	0 to 30,000 ppm	±100 ppm or ±10% of m.v.	1 ppm
<b>NO measurement</b>	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
<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</b> (digital calculation from O <sub>2</sub> )	Display range 0 to CO <sub>2</sub> max.	±0.2 vol. %	0.1 vol. %
<b>Draft measurement</b>	- 4.01 to 16.06 inH <sub>2</sub> O (-9.99 to +40 hPa)	±0.002 inH <sub>2</sub> O (0 to ±0.04 inH <sub>2</sub> O) ±0.02 hPa (±0.04 to ±1.2 inH <sub>2</sub> O) ±1.5% of m.v. (remaining meas. range)	0.0001 inH <sub>2</sub> O (0.001 hPa)
<b>Pressure measurement</b>	-40 to 80 inH <sub>2</sub> O (-100 to +200 hPa)	±0.2 inH <sub>2</sub> O (0 to ±20 inH <sub>2</sub> O) (±0.5 hPa (0 to +50.0 hPa) ±1% of m.v. (±20.1 to ±40 inH <sub>2</sub> O) (+50.1 to +100.0 hPa) ±1.5% of m.v. (remaining meas. range)	0.01 inH <sub>2</sub> O
<b>Temperature (instrument)</b>	-40 to 2,192 °F (-40 to +1200 °C)	±1 °F (32 to 212 °F) (0.0 to +100.0 °C) ±0.5 % of m.v. (remaining meas. range)	0.1 °F (-40 to 1,831.82 °F) / 0.1 °C (-40 to +999.9°C) 1 °F (1 °C) (remaining meas. range)
<b>Ambient CO measurement</b> (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
<b>Ambient CO measurement</b> (external with CO probe)	0 to 500 ppm	±3 ppm (0 to 29 ppm) ±10 % of m.v. (30 to 500 ppm)	1 ppm

# Technical data

## General technical data

Storage temperature	-4 to 122 °F (-20 to +50 °C)		
Operating temperature	-23 to 113 °F (-5 to +45 °C)		
Charging temperature	32 to 113 °F (0 to +45 °C)		
Humidity application range	15 to 90 %RH, non-condensing		
Power supply	Rechargeable battery, USB power supply		
Rechargeable battery life	10 h		
Protection class	IP 40		
System requirements	Requires iOS 11.0 or newer, Android 6.0 or newer, mobile device with Bluetooth 4.0		
Wireless range	Up to 328 feet (100m) with no obstructions		
Testo BT Connector	Interface for connecting testo Smart Probes to the measuring instrument		
Memory	1 million measuring values		
Display	5.0" touch display, HD 1280*720 pixels, IPS (160 k)		
Weight	Approx. 1.7 lbs (800 g)		
Dimensions	L: 9.6 inch (244 mm) (including probe connection) H: 2.32 inch (59 mm) W: 3.86 inch (98 mm)		
testo 300 Smoke Edition Warranty		Instrument/probe/gas sensors	24 months
		O <sub>2</sub> , CO sensor	24 months
		Thermocouple and rechargeable battery	12 months
testo 300 Professional Warranty		Instrument/probe/gas sensors	48 months
		O <sub>2</sub> , CO sensor	48 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>		

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Subject to change, including technical modifications.