

Combustion analyzer

Next Gen testo 300 Professional
Next Gen testo 300 Smoke Edition

Intuitive measurement menus with fast-response
Smart-Touch display

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

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

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

Wide variety of user changeable probes available



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.

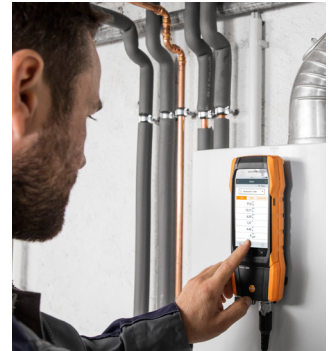


testo Smart App
for free download



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 ₂ sensor | CO sensor | CO H ₂ 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 ₂ sensor | CO sensor | CO H ₂ 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 ₂ 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 ₂ -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 |

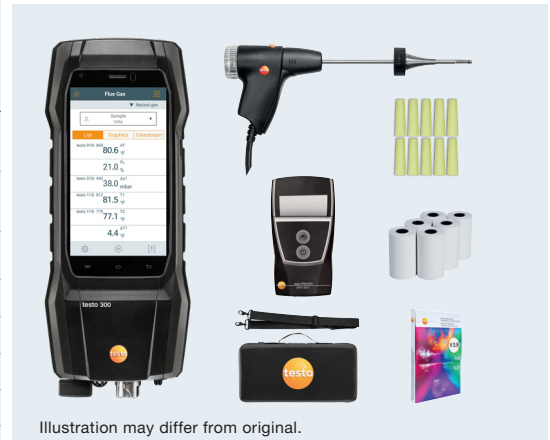
| Cases and carrying bags | Order no. |
|---|-----------|
| Instrument case (height: 5.1 inches (130 mm)) for instrument, probes and accessories | 0516 3300 |
| Instrument case with double base (height: 7 inches (180 mm)) for instrument, probes and accessories | 0516 3301 |
| testo 300 instrument bag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

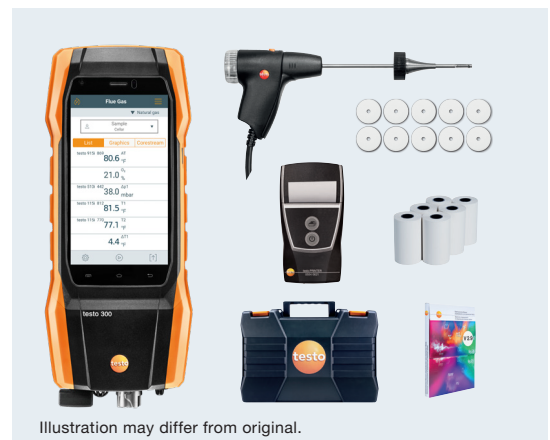
Next Generation testo 300 Smoke Edition Kits

| | testo 300 Kit 1 | testo 300 Kit 1 with printer |
|-----------------------------------|--|--|
| Order no. | 0564 3002 82 | 0564 3002 83 |
| 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 (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

| | testo 300 Professional Kit 1 | testo 300 Professional Kit 1 with printer | testo 300 Professional Kit 2 with printer |
|------------------------------------|---|--|--|
| Order no. | 0564 3004 92 | 0564 3004 93 | 0564 3004 96 |
| Instrument, including power supply | O ₂ , CO, (4,000 ppm), NO sensor retrofittable | O ₂ , CO (4,000 ppm), NO sensor retrofittable | O ₂ , 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

| Modular flue gas probes | Order no. |
|---|------------------|
| 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 |
| Compact flue gas probes | |
| Order no. | |
| 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 |
| Probe accessories and probe filters | |
| Order no. | |
| 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 |
| 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 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 |
| Temperature probes | |
| Order no. | |
| 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. |
|---|--------------|
| testo 510i , differential pressure measuring instrument with smartphone operation, including hose kit (Ø 4 mm and 5 mm) with adapter, batteries and calibration protocol | 0560 1510 |
| testo 115i , 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 testo 915i 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 |



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.

Technical data

| Measurement parameter | Measuring range | Accuracy (±1 digit) | Resolution |
|---|--|--|--|
| O₂ measurement | 0 to 21 vol. % | ±0.2 vol. % | 0.1 vol. % |
| CO measurement | 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 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% |
| CO₂ determination (digital calculation from O ₂) | Display range 0 to CO ₂ max. | ±0.2 vol. % | 0.1 vol. % |
| Draft measurement | - 4.01 to 16.06 inH ₂ O (-9.99 to +40 hPa) | ±0.002 inH ₂ O (0 to ±0.04 inH ₂ O) ±0.02 hPa (±0.04 to ±1.2 inH ₂ O) ±1.5% of m.v. (remaining meas. range) | 0.0001 inH ₂ O (0.001 hPa) |
| Pressure measurement | -40 to 80 inH ₂ O (-100 to +200 hPa) | ±0.2 inH ₂ O (0 to ±20 inH ₂ O) (±0.5 hPa (0 to +50.0 hPa) ±1% of m.v. (±20.1 to ±40 inH ₂ O) (+50.1 to +100.0 hPa) ±1.5% of m.v. (remaining meas. range) | 0.01 inH ₂ O |
| Temperature (instrument) | -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) |
| 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 |

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 |  | <table border="0"> <tr> <td>Instrument/probe/gas sensors</td> <td>24 months</td> </tr> <tr> <td>O₂, CO sensor</td> <td>24 months</td> </tr> <tr> <td>Thermocouple and rechargeable battery</td> <td>12 months</td> </tr> </table> | Instrument/probe/gas sensors | 24 months | O ₂ , CO sensor | 24 months | Thermocouple and rechargeable battery | 12 months | | |
| Instrument/probe/gas sensors | 24 months | | | | | | | | | |
| O ₂ , CO sensor | 24 months | | | | | | | | | |
| Thermocouple and rechargeable battery | 12 months | | | | | | | | | |
| testo 300 Professional Warranty |  | <table border="0"> <tr> <td>Instrument/probe/gas sensors</td> <td>48 months</td> </tr> <tr> <td>O₂, CO sensor</td> <td>48 months</td> </tr> <tr> <td>NO, NO_{low}, CO_{low} sensor</td> <td>24 months</td> </tr> <tr> <td>Thermocouple and rechargeable battery</td> <td>12 months</td> </tr> </table> | Instrument/probe/gas sensors | 48 months | O ₂ , CO sensor | 48 months | NO, NO _{low} , CO _{low} sensor | 24 months | Thermocouple and rechargeable battery | 12 months |
| Instrument/probe/gas sensors | 48 months | | | | | | | | | |
| 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 | | | | | | | | | |

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