

Be sure. **testo**



# THERE'S NO ALTERNATIVE

... when it comes to efficient flue gas measurement – with up to 4 wireless Smart Probes at the same time: the testo 300 NEXT LEVEL



# For flue gas measurements, there's no alternative: the testo 300 NEXT LEVEL

## 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. However, on the other hand, some things unfortunately don't change: Instrument operation and documentation are both cumbersome and time-consuming. But it doesn't have to be that way!

## Wireless parallel measurements in record time

Efficient, wireless measurement of up to four additional parameters in parallel via our Smart Probes – with the new testo 300 NEXT LEVEL! Featuring a practical second screen and intuitive operation – it really couldn't be easier.

**Robust workmanship**

**SECOND SCREEN FUNCTION and easy documentation via testo Smart App**

**NEW**

**SMART-TOUCH DISPLAY: intuitive and responsive**

**BLUETOOTH® CONNECTOR\*: 4 measurements in parallel via wireless Smart Probes**

**QR code scanner**

- Additional time-saving features:**
- Versatile probes and fast probe changes
  - Measurement reports can be signed on the instrument itself
  - Magnetic holder to fix the instrument in place
  - Instantly ready to measure from standby mode at the touch of a button



\*Compatible with your previous testo 300.



# When it comes to efficiency, there's no alternative: Measure smarter, work easier

Save valuable time: with easy, intuitive documentation on site, send measurement data by e-mail via the testo Smart App and wireless Smart Probes. Also discover the benefits of easy data integration into your in-house software – fewer transmission errors, less paperwork, less stress.

## Easy data integration of all readings into user-specific software

- **Option 1:** via universally applicable QR code (ZIV-compatible)
- **Option 2:** via WiFi/BLUETOOTH® with the testo Smart App

## Easy documentation, storage and transmission of all readings

- Documentation of readings via Smart App (Quick Report function/Smart App) and direct e-mail dispatch via Smart App
- Storage of measurement data on the testo 300 via the Smart App (pop-up Save button)
- Transfer of the performed and saved measurement via t300 to the Smart App and transmission via e-mail
- Printout of the performed and saved measurement including Smart Probe measurement via t300 (testo printer)

## New: testo Bluetooth® Connector

- For wireless connection to the Smart Probes
- 100% compatible with testo 300 – available as an accessory
- Backwards compatible with existing testo 300



**NEW**



## Our wireless Smart Probes: for simpler measurements in next to no time

- **testo 510i:** Differential pressure measuring instrument (measure gas flow or static pressure in parallel with flue gas)
- **testo 115i:** Temperature measuring instrument (measure flow/return temperature with 2 Smart Probes)
- **testo 915i:** Measure combustion air temperature (time-saving without wired probes or additional measuring instruments)



## Practical second screen function via integration into the testo Smart App

- Keep a constant eye on all relevant measurement data
- Works even if there is a long distance between measuring instrument and burner control unit – saves time and unnecessary trips





# When it comes to simplicity, there's no alternative: Commissioning

1

## Connect the new testo Bluetooth® Connector

- Connects to TUC 1 or TUC 2
- Links up to 4 Smart Probes in parallel
- Can be retrofitted to existing testo 300 flue gas analyzers
- Commercially available as an accessory

2

## Connect to Smart Probes for flue gas measurements and up to 4 other parameters

- Gas flow/static gas pressure measurement possible in parallel with the flue gas measurement
- Automatic dT calculation when 2 temperature Smart Probes (t115i or t915i) are connected
- Combination of the two temperature Smart Probes possible
- All TC probes can be used in conjunction with testo 915i
- Wireless combustion air temperature measurements possible with testo 915i for BimSchV (German Federal Immission Control Ordinance) measurements
- Smart Probe readings can also be printed out

3

## Integration into testo Smart App

- Connection between measuring instrument and smart device established within seconds
- Live readings including Smart Probe readings duplicated on smart device
- Current status of measuring instrument displayed on app
- Measurement can be started and stopped via the app
- Quick report creation via app
- Automatic update of reading sequence within seconds when changes are made on the measuring instrument

4

## Easy documentation and integration of data via QR code into your own in-house software

- ZIV-compatible
- QR code can be used worldwide
- Output of current readings on the screen via QR code
- Output of one or multiple stored measurements
- Storage of the measurement as a QR code and file transmission via e-mail



# When it comes to flexibility, there's no alternative: Traditional probes and wireless Smart Probes

The Smart Probes make it easier than ever before to measure additional parameters such as gas pressure and surface or air temperature – and with no messy cables, you're more mobile too. The compact professional measuring instruments support you in all heating applications and can be operated with the testo Smart App from your own smartphone or tablet.



- **Efficient:** wireless parallel measurement of up to 4 parameters with the choice of up to 3 different Smart Probes and the new testo Bluetooth® Connector.
- **Practical:** second screen function and easy data integration into your software via QR code, WiFi or Bluetooth®
- **Compatible:** All common industrial TC probes can be used in conjunction with the testo 915i

## Versatile probes – quick to change and suitable for any application

### 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.

### Tried-and-tested probes

You can also use the testo 320, testo 330 and testo 330-1/-2 LL probes with their practical multi-connector for the testo 300.



## testo interface function

The testo 300 offers an interface to a range of industry software. This enables you to access the testo 300's readings with your terminal devices and tools and to document them or continue processing them in your industry software. Now it is also easy to integrate them into your operating system via QR code (ziv compatible), using the programmed interface.





## Instrument models and accessories

testo 300 flue gas analyzer						
Order no.	Longlife sensors	O <sub>2</sub> sensor	CO sensor	CO H <sub>2</sub> sensor	NO sensor, NO <sub>low</sub> sensor and CO <sub>low</sub> sensor retrofittable	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 <sub>2</sub> sensor	CO sensor	CO H <sub>2</sub> sensor	NO sensor, NO <sub>low</sub> sensor and CO <sub>low</sub> sensor retrofittable	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 88	✅	✅	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 <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	0393 0105
CO <sub>low</sub> sensor, H <sub>2</sub> -compensated, with 2-year warranty	0393 0103
NO sensor	0393 0151
NO <sub>low</sub> sensor	0393 0152

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 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 mains unit, 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 0055

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

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

When you purchase a new testo 300 NEXT LEVEL, the testo Bluetooth® Connector is included in the scope of delivery. The testo Bluetooth® Connector is only designed for connecting testo Smart Probes.

## Suitable kits

testo 300 kits		
Order no.	testo 300 Kit 1	testo 300 Kit 1 with printer
Order no.	0564 3002 70	0564 3002 71
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 (180 mm, Ø 6 mm)	Compact flue gas probe (180 mm, Ø 6 mm)
Printer, including spare paper	❌	✅
testo EasyHeat PC software	✅	✅
Instrument bag	✅	✅
Smart Probes compatible	✅	✅
Connection to Smart App	✅	✅
Warranty	2 years	2 years



Illustrations may differ from original

testo 300 Longlife kits				
Order no.	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 89
Instrument, including mains unit	O <sub>2</sub> , CO, 4,000 ppm, NO, NO <sub>low</sub> , CO <sub>low</sub> sensor retrofittable	O <sub>2</sub> , CO, 4,000 ppm, NO, NO <sub>low</sub> , CO <sub>low</sub> sensor retrofittable	O <sub>2</sub> , CO H <sub>2</sub> , 30,000 ppm, NO, NO <sub>low</sub> , CO <sub>low</sub> sensor retrofittable	O <sub>2</sub> , CO H <sub>2</sub> , 30,000 ppm, NO, NO <sub>low</sub> , CO <sub>low</sub> sensor retrofittable
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	✅	✅	✅	✅
Smart Probes compatible	✅	✅	✅	✅
Connection to Smart App	✅	✅	✅	✅
Warranty	4 years	4 years	4 years	4 years



Illustrations 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 probe stop cone; Ø 8 mm; Tmax. +1,000 °C	0554 8764
Probe shaft; length 700 mm; including probe stop cone; Ø 8 mm; Tmax. +1,000 °C	0554 8765
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 averaging	0554 5762
Multi-hole probe shaft; length 180 mm; Ø 8 mm; for CO averaging	0554 5763
Hose extension; 2.8 m; probe-instrument extension line	0554 1202
Spare dirt filter, modular probe, 10 off	0554 3385
Spare dirt filter, compact probe, 10 off	0554 0040
Probe stop cone with spring clamp and handle, Tmax. +200 °C, material Teflon, Ø 6 mm	0554 3327
Probe stop cone with spring clamp and handle, Tmax. +200 °C, material Teflon, Ø 8 mm	0554 3328
More probes and accessories	Order no.
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 (Gas pipe test with the pressure test kit in conjunction with the testo 300, testo 330-2 LL is not DVGW TRGI 2018-compliant. For standard-compliant measurements, use of the testo 324 is recommended.)	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, including probe stop cone and magnetic holder for securing	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

## 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 02
Wireless Smart Probe <b>testo 915i</b> with air probe (TC Type K), including batteries and calibration protocol	0563 3915
testo Bluetooth® Connector	Order no.
testo Bluetooth® Connector for connecting the testo 300 flue gas analyzer to testo Smart Probes	0554 3004
When you purchase a new testo 300 NEXT LEVEL, the testo Bluetooth® Connector is included in the scope of delivery. The testo Bluetooth® Connector is only designed for connecting testo Smart Probes.	

## Technical data

Measurement parameter	Measuring range	Accuracy (±1 digit)	Solution
<b>O<sub>2</sub> measurement</b>	0 to 21 vol.%	±0.2 vol.%	0.1 vol.%
<b>CO measurement (without H<sub>2</sub> compensation)</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 (with H<sub>2</sub> compensation)</b>	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
<b>CO measurement (without H<sub>2</sub>-compensation with dilution)</b>	0 to 15,000 ppm	±200 ppm or ±20% of m.v.	1 ppm
<b>CO measurement (with H<sub>2</sub> compensation and dilution)</b>	0 to 30,000 ppm	±100 ppm or ±10% of m.v.	1 ppm
<b>CO<sub>low</sub> measurement (with H<sub>2</sub> compensation)</b>	0 to 500 ppm	±2 ppm (0 to 40 ppm) ±5% of m.v. (remaining measuring range)	0.1 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>NO<sub>low</sub> measurement</b>	0 to 300 ppm	±2 ppm (0 to 39.9 ppm) ±5% of m.v. (40 to 300 ppm)	0.1 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.	±0.2 vol.%	0.1 vol.%
<b>Draught measurement</b>	-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)
<b>4 Pa measurement (for instruments with dilution)</b>	-50 to +50 Pa	±0.3 Pa (< 10 Pa) ±3% of m.v. (remaining measuring range)	0.1 Pa
<b>Pressure measurement</b>	-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
<b>Temperature (instrument)</b>	-40 to +1200 °C	±0.5 °C (0.0 to +100.0 °C) ±0.5% of m.v. (remaining measuring range)	0.1 °C (-40 to +999.9 °C) 1 °C (remaining measuring range)
<b>Ambient CO measurement (internal/flue gas probe)</b>	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 (external with CO probe)</b>	0 to 500 ppm	±3 ppm (0 to 29 ppm) ±10% of m.v. (30 to 500 ppm)	1 ppm



# When it comes to smart apps, there's no alternative: One app for all applications



Faster, easier, smarter: Our testo Smart App is the focal point of all activities. All heating applications can be controlled using a smartphone or tablet – the perfect complement to our measuring instruments.

**Making flue gas measurement simpler: the testo 300 NEXT LEVEL**



**NEW**

**For fast parallel measurements: The testo Smart Probes**



115i 510i 915i

**For efficient heat pump maintenance: Manifolds and scales**



557s

560i

**Revolutionizing leak detection: the new testo 316 series**



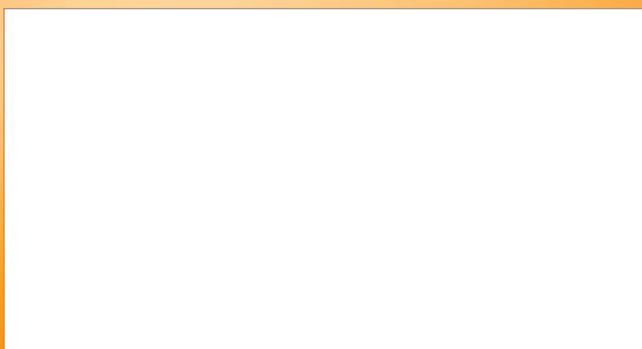
**NEW**

316-2-EX

**For unbeatably high-precision thermography: Thermal imager testo 868s**



Subject to change, including technical modifications. 2981 XXX4/BBS/dk/06.2022



Find out more