



# Flue gas analyzer

## testo 330i



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Measurement location-independent operation and Bluetooth measurement value display via Smartphone/tablet and testo 330i App

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Non-paper documentation and report creation directly on site with the testo 330i App

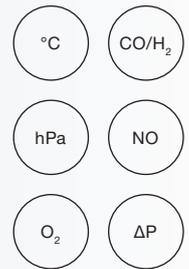
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Reliable flue gas probe attachment with the testoFix probe mount

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Robust, completely sealed plastic housing for use in tough conditions

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The testo 330i is the combination of proven technology and revolutionary handling. The basis of the flue gas analyzer is the measurement technology of the proven predecessor testo 330 LL, with these outstanding features:

- Longlife sensors with up to 6 years' lifetime, exchangeable by the user
- TÜV-tested according to 1. BImSchV (VDI 4206) and EN 50379, Parts 1-3
- Integrated gas and draught zeroing without probe removal
- Measuring range extension up to 30,000 ppm CO through automatic fresh air dilution

The operation of the measuring instrument and the display of the measurement values take place by Bluetooth via the testo 330i App on your Smartphone/tablet. This means you always have all relevant values at your fingertips right where you need them. After finishing the measurement, you can insert comments or photos of the plant into your report, and send it to your customer or your office by e-mail. Today's way to measure flue gas.

## Technical data

### testo 330i

testo 330i flue gas analyzer with Longlife gas sensors and integrated draught and gas zeroing, 3 slots, incl. H<sub>2</sub>-compensated CO sensor, O<sub>2</sub> sensor, rechargeable battery and calibration protocol



Order no. 0632 3000 71

### testo 330i basic set

|  |              |
|--|--------------|
| testo 330i with H <sub>2</sub> -compensated CO sensor  | 0632 3000 71 |
| Modular flue gas probe with hose (650 mm)              | 0600 9780    |
| Combustion air temperature probe (190 mm)              | 0600 9787    |
| International mains unit                               | 0554 1096    |
| testoFix probe mount                                   | 0554 3006    |
| Instrument case for testo 330i, probes and accessories | 0516 3302    |

Order no. 0563 3000 70

### General technical data

|                       |  |
|-----------------------|--|
| Compatibility         | requires iOS 7.1 or newer / Android 4.3 or newer<br>requires mobile end device with Bluetooth 4.0                                    |
| Storage temperature   | -20 to +50 °C  |
| Operating temperature | -5 to +45 °C   |
| Power supply          | Rech. batt. block 3.7 V / 2.6 Ah<br>Mains unit 6 V / 1.2 A (optional)  |
| Memory                | 500000 readings  |
| Weight                | 720 g (excluding battery)  |
| Dimensions            | 270 x 160 x 57 mm  |
| Warranty              | Instrument/probe/gas sensors O <sub>2</sub> , CO: 48 months<br>Gas sensor NO: 24 months<br>Thermocouple and rech. battery: 12 months |

### testo 330i advanced set

|  |              |
|--|--------------|
| testo 330i with H <sub>2</sub> -compensated CO sensor  | 0632 3000 71 |
| Modular flue gas probe with hose (650 mm)              | 0600 9780    |
| Combustion air temperature probe (190 mm)              | 0600 9787    |
| International mains unit                               | 0554 1096    |
| testoFix probe mount                                   | 0554 3006    |
| testo 330i BLUETOOTH®/IRDA printer                     | 0554 0621    |
| Instrument case for testo 330i, probes and accessories | 0516 3302    |

Order no. 0563 3000 71

| Measurement parameter  | Measuring range                          | Accuracy (± 1 digit)   | Resolution   |
|--|--|--|--|
| <b>Temperature (dependent on the thermocouple in the flue gas probe)</b>                       | -40 to +1200 °C                          | ±0.5 °C (0.0 - +100.0 °C)<br>±0.5 % of m.v. (remaining meas. range)  | ±0.1 °C (-40 - +999.9 °C)<br>±1 °C (remaining meas. range) |
| <b>Draught measurement</b>   | -9.99 to +40 hPa                         | ±0.02 hPa or ± 5 % of m.v. (-0.50 to +0.60 hPa)<br>±0.03 hPa (+0.61 to +3.00 hPa)<br>±1.5 % of m.v. (+3.01 to +40.00 hPa)<br>(the greater value applies) | 0.01 hPa   |
| <b>Pressure measurement</b>  | 0 to 300 hPa                             | ±0.5 hPa (0.0 to +50.0 hPa)<br>±1 % of m.v. (+50.1 to +100.0 hPa)<br>±1.5 % of m.v. (remaining meas. range)  | 0.1 hPa  |
| <b>O<sub>2</sub> measurement</b>   | 0 to 21 vol. %                           | ±0.2 vol. %  | 0.1 vol. %   |
| <b>CO measurement (not H<sub>2</sub>-compensated)</b>  | 0 to 4000 ppm                            | ±20 ppm or ±10 % of m.v. (0 to 400 ppm)<br>±5 % of m.v. (401 to 2000 ppm)<br>±10 % of m.v. (2001 to 4000 ppm)  | 1 ppm  |
| <b>CO measurement (not H<sub>2</sub>-compensated) with activated measuring range extension</b> | 0 to 15000 ppm                           | ±200 ppm or ±20 % of m.v. (0 to 15000 ppm)   | 1 ppm  |
| <b>CO measurement (H<sub>2</sub>-compensated)</b>  | 0 to 8000 ppm                            | ±10 ppm or ±10 % of m.v. (0 to 200 ppm)<br>±20 ppm or ±5 % of m.v. (201 to 2000 ppm)<br>±10 % of m.v. (2001 to 8000 ppm)                                 | 1 ppm  |
| <b>CO measurement (H<sub>2</sub>-compensated) with activated measuring range extension</b>     | 0 to 30000 ppm                           | ±200 ppm or ±20 % of m.v. (0 to 30000 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 (Calculation from O<sub>2</sub>)</b>                           | Display area<br>0 to CO <sub>2</sub> max | ±0.2 vol. %  | 0.1 vol. %   |
| <b>Option: NO measurement:</b>   | 0 to 3000 ppm                            | ±5 ppm (0 to 100 ppm)<br>±5 % of m.v. (101 to 2000 ppm)<br>±10 % of m.v. (2001 to 3000 ppm)  | 1 ppm  |

## Ordering data

### testoFix probe mount

Newly developed: Securely fixes the probe and the measuring instrument to the plant.



For measurement apertures from 10 mm hole diameter and probe diameter of 8 mm  
Max. surface temperature at the measurement aperture: +140 °C  
Weight: 114 g

### testo 330i App

The App turns your Smartphone/tablet into the display of the testo 330i.



The operation of the measuring instrument as well as the display of the measurement values take place by Bluetooth via the testo 330i App on your Smartphone or tablet – independently of the measurement location. In addition to this, you can use the App to create measurement reports, add photos and comments to these, and send them by e-mail. For iOS and Android.

### Measuring instrument

#### Order no.

|   |              |  |
|---|--------------|--|
| testo 330i flue gas analyzer with Longlife gas sensors and integrated draught and gas zeroing, 3 slots, incl. H <sub>2</sub> -compensated CO sensor, O <sub>2</sub> sensor, rechargeable battery and calibration protocol | 0632 3000 71 |  |
| testo 330i flue gas analyzer with Longlife gas sensors and integrated draught and gas zeroing, 3 slots, incl. O <sub>2</sub> /CO sensor, rechargeable battery and calibration protocol                                    | 0632 3000 70 |  |
| testo 330i flue gas analyzer with Longlife gas sensors and integrated draught and gas zeroing, 3 slots, incl. CO/NO sensor, rechargeable battery and calibration protocol   | 0632 3000 72 |  |
| testo 330i flue gas analyzer with Longlife gas sensors and integrated draught and gas zeroing, 3 slots, incl. H <sub>2</sub> -compensated CO sensor, NO sensor, rechargeable battery and calibration protocol             | 0632 3000 73 |  |

### Spare gas sensors

#### Order no.

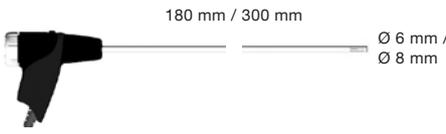
|  |           |  |
|--|-----------|--|
| O <sub>2</sub> sensor  | 0393 0002 |  |
| CO sensor, without H <sub>2</sub> -compensation, 0 to 4000 ppm | 0393 0051 |  |
| CO sensor, H <sub>2</sub> -compensated, 0 to 8000 ppm          | 0393 0101 |  |
| NO sensor 0 to 3000 ppm  | 0393 0151 |  |
| Retrofit NO sensor, 0 to 3000 ppm                              | 0554 2151 |  |

### Accessories

#### Order no.

|  |           |  |
|--|-----------|--|
| testoFix probe mount for flue gas probes with 8 mm diameter  | 0554 3006 |  |
| Smoke tester incl. oil and soot papers for measuring soot in flue gas, excl. cone (order no. 0554 9010)      | 0554 0307 |  |
| Hose connection set with adapter for separate gas pressure measurement                                       | 0554 1203 |  |
| Differential temperature set consisting of 2 Velcro probes and temperature adapter                           | 0554 1208 |  |
| International mains unit, 100-240 V AC / 6.3 V DC; for mains operation or battery charging in the instrument | 0554 1096 |  |
| Spare rechargeable battery 2600 mA   | 0515 0107 |  |
| Charger for spare rechargeable battery   | 0554 1103 |  |
| testo 330i BLUETOOTH®-/IRDA printer, incl. 1 roll of thermal paper, rech. battery and mains unit             | 0554 0621 |  |
| Spare thermal paper for printer, permanent ink   | 0554 0568 |  |
| Adhesive envelopes for storing printout, 50 off  | 0554 0116 |  |
| Spare dirt filter for probe handle, modular probe; 10 pcs.   | 0554 3385 |  |
| Instrument case for testo 330i, probes and accessories (520 x 130 x 400 mm, WxHxD)                           | 0516 3302 |  |
| Instrument case for testo 330i, probes and accessories (520 x 210 x 400 mm, WxHxD)                           | 0516 3303 |  |
| ISO calibration certificate flue gas   | 0520 0003 |  |
| USB connection cable, instrument-PC, testo 330i / 330-1/-2 LL / testo 335                                    | 0449 0047 |  |

# Probes

| Modular flue gas probes   |  | Order no. |
|---|--|-----------|
| Modular flue gas probe incl. cone for fixing; thermocouple NiCr-Ni; hose 650 mm; dirt filter; length 180 mm; Ø 8 mm; Tmax. 500 °C; TÜV-tested |  | 0600 9780 |
| Modular flue gas probe incl. cone for fixing; thermocouple NiCr-Ni; hose 650 mm; dirt filter; length 300 mm; Ø 8 mm; Tmax. 500 °C; TÜV-tested |  | 0600 9781 |
| Modular flue gas probe incl. cone for fixing; thermocouple NiCr-Ni; hose 650 mm; dirt filter; length 180 mm; Ø 6 mm; Tmax. 500 °C             |  | 0600 9782 |
| Modular flue gas probe incl. cone for fixing; thermocouple NiCr-Ni; hose 650 mm; dirt filter; length 300 mm; Ø 6 mm; Tmax. 500 °C             |  | 0600 9783 |

| Other probes   | Order no. |
|--|-----------|
| Dual wall clearance probe for O <sub>2</sub> air input measurement           | 0632 1260 |
| Multi-hole probe shaft, length 180 mm, Ø 8 mm, for CO mean value calculation | 0554 5763 |
| Multi-hole probe shaft, length 300 mm, Ø 8 mm, for CO mean value calculation | 0554 5762 |
| Probe shaft, length 180 mm, Ø 8 mm, Tmax. +500 °C                            | 0554 9760 |
| Probe shaft, length 300 mm, Ø 8 mm, Tmax. +500 °C                            | 0554 9761 |
| Probe shaft, length 335 mm, Ø 8 mm, Tmax. +1000 °C                           | 0554 8764 |
| Modular solid fuel set with sintered filter and condensate trap              | 0600 9765 |

| Combustion air temperature probe                         | Order no. |
|--|-----------|
| Combustion air temperature probe, immersion depth 190 mm | 0600 9787 |
| Combustion air temperature probe, immersion depth 60 mm  | 0600 9797 |