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Data sheet
testo 320

New

# Standard flue gas analyzer

testo 320 – Standard flue gas analyzer. Clear data. Streamlined workflows. Access your data anywhere. Get your job done faster – every day.

°F
NO
inHg
ΔP
$O_2$
ΔT
CO

— **Clear view at a glance**
Large 5.5" touchscreen with real-time data

— **Streamlined workflows**
App-like interface with step-by-step guidance for fast navigation and consistent results

— **testo Smart App integration**
Remote control, second screen and fast reporting on site

— **Centralized data management**
Connecting measurements, jobs and devices in one system via testo Smart Connect

— **Parallel measurements**
Capture multiple values at once for faster daily work.

— **All-day operation**
Long battery life and fast charging for uninterrupted use throughout the working day

The testo 320 supports HVAC/R professionals in their daily work. With a wide range of systems, increasing time pressure and the need for efficient processes, reliable and easy-to-use measurement solutions are essential. By combining intuitive operation with connected systems, the testo 320 helps simplify routine tasks and deliver consistent results.

With the testo Smart App, measurements can be controlled, documented and reported directly on site – including remote control and fast reporting. With testo Smart Connect, all measurement data is centrally managed in the cloud, connecting measurements, jobs and devices in one system and providing full transparency and easy access across teams and locations.

Designed for efficient daily operation, the testo 320 delivers reliable performance with sensors developed by Testo for standard HVAC/R applications. The large 5.5" touchscreen provides a clear view of all measurement data at a glance, while streamlined workflows guide users step by step and ensure fast navigation and easy handling.

This combination of usability and efficiency reduces effort, minimizes errors and enables faster workflows. Parallel measurements allow multiple values to be captured simultaneously, further increasing efficiency in daily work. Long battery life and fast USB-C charging ensure uninterrupted operation throughout the working day – minimizing downtime and keeping workflows moving.

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# Technical data

| | |
|---|---|
| Storage temperature | -4 to 122 °F |
| Operating temperature | 23 to 113 °F |
| Charging temperature | 32 to 95 °F |
| Humidity application range | 15… 90 %RH (non-condensing) |
| Power supply | Rechargeable battery, USB mains unit |
| Rechargeable battery life | 10 h |
| Quick charge | Charge time / operating time: 20 min / ~60 min (77 °F) |
| Protection class | IP40 |
| System requirements | iOS ≥17.0 / Android ≥14.0; Bluetooth ≥4.2 |
| Wireless range | Up to 328 ft with no obstructions |
| Wireless probe connection | 4 Bluetooth® probes connectable: Smart Probes (°F, Delta P), CO + $CO_2$ probes |
| Memory | ≤1,000,000 readings |
| Display | 5.5" IPS touchscreen, 1268 × 702 pixels |
| Weight | approx. 1.5 lb |
| Dimensions (incl. probe connection) | approx. 9 x 4 x 2 in (L × W × H) |
| Warranty | 24 + 12 months (with registration) |

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# Measuring data

| Measurement parameter | Measuring range | Accuracy (±1 digit) | Resolution |
|---|---|---|---|
| $O_2$ | 0 … 21 vol.% | ±0.2 vol.% | 0.1 vol.% |
| CO<br>(without $H_2$ compensation) | 0 … 5,000 ppm | ±20 ppm (0 … 400 ppm)<br>±5% of m.v. (401 … 2,000 ppm)<br>±10% of m.v. (2,001 … 5,000 ppm) | 1 ppm |
| CO<br>(with $H_2$ compensation) | 0 … 10,000 ppm | ±10 ppm or ±10% of m.v. (0 … 200 ppm)<br>±20 ppm or ±5% of m.v. (201 … 2,000 ppm)<br>±10% of m.v. (2,001 … 10,000 ppm) | 1 ppm |
| Efficiency testing (η) | 0 … 120% | – | 0.1% |
| Flue gas loss | 0 … 99.9% | – | 0.1% |
| $CO_2$<br>(calculated from $O_2$) | Display range<br>0 … $CO_2$ max. | ±0.2 vol.% | 0.1 vol.% |
| Draught/draft | -0.29 to 1.18 inHg | ±0.0001 inHg (0 ... 0.003 inHg) | 0.00003 inHg<br>(0 ... 0.003 inHg) |
| | | ±0.00014 inHg (0.002 to 0.089 inHg) | 0.0003 inHg<br>(remaining range) |
| | | ±1.5% of m.v. (0.089 to 1.181 inHg) | |
| Pressure | -0.29 to 1.18 inHg | ±0.014 inHg (0 to 1.476 inHg)<br>±1% of m.v. (1.479 to 2.952 inHg)<br>±1.5% of m.v. (2.955 to 5.905 inHg) | 0.0002 inHg |
| Temperature (instrument) | -40 to 2,192 °F | ±0.9 °C (32 to 212 °F) | 0.18 °F<br>(-40 to 1831.82 °F) |
| | | ±0.5% of m.v.<br>(remaining range) | 1.8 °F<br>(remaining range) |
| Ambient CO<br>(internal/flue gas probe) | 0 … 2,000 ppm | ±10 ppm (0 … 100 ppm)<br>±10% of m.v. (101 … 2,000 ppm) | 1 ppm |
| Ambient CO<br>(external with CO probe) | 0 … 500 ppm | ±3 ppm (0 … 29 ppm)<br>±10% of m.v. (30 … 500 ppm) | 1 ppm |

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# Device models & sensors

## Device Info

CO

$O_2$

| | testo 320 $O_2$, CO |
|---|---|
| Testo sensors | – |
| $O_2$ sensor | ✓ |
| CO sensor | 5,000 ppm |
| $H_2$ compensation (CO sensor) | – |
| NO sensor | optional |
| Zeroing in flue gas | – |
| Warranty (years) | 2 + 1 |
| Order number (kits and contents, see next page) | 0633 3200 01 |

## Testo Sensors

| | $O_2$ | CO | NO |
|---|---|---|---|
| Order number | 0393 0020 | 0393 0070 | 0393 0170 |

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# Kits

## Each kit includes:

Standard
flue gas analyzer
testo 320

Instrument bag with
carrying strap
0516 3001

Compact basic flue
gas probe, 7 in,
Ø 0.24 in
0600 9740



Spare particle filter,
10 pcs
0554 0040

Plug-in mains
adapter
0554 1131

## Optional printer:

Mobile
Bluetooth® printer
0554 0622

## Kits, based on device model of testo 320

CO
$O_2$

testo 320
**Kit 1 – $O_2$, CO**

Order number
0564 3200 20

## Kits with printer

testo 320
**Kit 2 – $O_2$, CO**
**with printer**

Order number
0564 3200 21

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# Accessories

| | | Order number |
|---|---|---|
| General accesoiries | testo Bluetooth® printer, including 1 roll of thermal paper, rechargeable battery and mains unit | 0554 0622 |
| | 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 mains unit, including USB cable (USB-C) | 0554 1131 |
| | ISO flue gas calibration certificate | 0520 0055 |
| Modular flue gas probes | Modular flue gas probe, including cone for fixing; thermocouple NiCr-Ni; hose 7 ft; dirt filter; length 7 in; Ø 0.32 in; $T_{max}$ 932 °F, TÜV-tested | 0600 9760 |
| | Modular flue gas probe, including cone for fixing; thermocouple NiCr-Ni; hose 7 ft; dirt filter; length 1 ft; Ø 0.32 in; $T_{max}$ 932 °F, TÜV-tested | 0600 9761 |
| | Modular flue gas probe, including cone for fixing; thermocouple NiCr-Ni; hose 7 ft; dirt filter; length 7 in; Ø 0.24 in; $T_{max}$ 932 °F | 0600 9762 |
| | Modular flue gas probe, including cone for fixing; thermocouple NiCr-Ni; hose 7 ft; dirt filter; length 1 ft; Ø 0.24 in; $T_{max}$ 932 °F | 0600 9763 |
| | Flexible flue gas probe; thermocouple NiCr-Ni; hose 7 ft; dirt filter; length 1 ft; Ø 0.35 in; $T_{max}$ 356 °F; short-term 392 °F; ideal for measurements in difficult-to-access locations | 0600 9770 |
| Compact flue gas probes | Compact basic flue gas probe, 7 in, Ø 0.24 in, $T_{max}$ 932 °F | 0600 9740 |
| | Compact basic flue gas probe, 1 ft, Ø 0.24 in, $T_{max}$ 932 °F | 0600 9741 |

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# Accessories

| | | Order number |
|---|---|---|
| Smart probes | testo 510i, differential pressure measuring instrument with smartphone operation, including hose kit (Ø 0.16 in and 0.20 in) with adapter, batteries and calibration protocol (Bluetooth®) | 0560 1510 |
| | testo 115i, clamp thermometer with smartphone operation, for measurements on pipes of 0.24 in to max. 1.4 in diameter, including batteries and calibration protocol (Bluetooth®) | 0560 2115 03 |
| | testo 915i with flexible including batteries and calibration protocol (Bluetooth®) | 0563 4915 |
| Temperature probes | Combustion air temperature probe with 7.5 in probe shaft including cone and magnets for attachment (TUC) | 0600 9799 |
| | Clamp probe with NTC temperature sensor for measurements on pipes (Ø 0.24 to 1.4 in) (TUC) | 0615 5505 |
| | Pipe wrap probe (NTC) for pipe diameters from 0.20 to 2.5 in (TUC) | 0615 5605 |
| | Waterproof immersion/penetration probe with NTC temperature sensor (TUC) | 0615 1212 |
| | Temperature probe with Velcro (NTC) (TUC) | 0615 4611 |
| Probes & accessories | Dual wall clearance probe for $O_2$ air input measurement (flue gas socket) | 0632 1260 |
| | Ambient CO probe (digital), fixed cable (TUC) | 0632 1272 |
| | CO probe (digital) – with Bluetooth® | 0632 1271 |
| | $CO_2$ probe (digital) – with Bluetooth® including temperature and humidity sensor | 0632 1551 |
| | Solid fuel kit, including probe shaft, adapter (flue gas socket) | 0600 9765 |
| | Hose connection kit with adapter for separate gas pressure measurement (flue gas socket) | 0554 1203 |
| | Pressure connection hose, single, Ø 0.15/0.24 mm | 0554 0449 |
| | Pressure test kit for gas pipe test | 0554 1213 |

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# Accessories

| | | Order number |
|---|---|---|
| Probe accessories & probe filter | Modular probe shaft; length 7 in; Ø 0.32 in; $T_{max}$ 932 °F | 0554 9760 |
| | Modular probe shaft; length 1 ft; Ø 0.32 in; $T_{max}$ 932 °F | 0554 9761 |
| | Probe shaft; length 1 ft; including cone; Ø 0.32 in; $T_{max}$ 1,832 °F | 0554 8764 |
| | Probe shaft; length 2.3 ft; including cone; Ø 0.32 in; $T_{max}$ 1,832 °F | 0554 8765 |
| | Flexible probe shaft; length 1 ft; Ø 0.35 in; $T_{max}$ 356 °F | 0554 9770 |
| | Hose extension; 9 ft; probe-instrument extension tube | 0554 1202 |
| | Spare dirt filter, modular probe, 10 off | 0554 3385 |
| | Spare dirt filter, compact probe, 10 off | 0554 0040 |
| | Multi-hole probe shaft; length 1 ft; Ø 0.32 in; for CO mean value calculation | 0554 5762 |
| | Multi-hole probe shaft; length 7 in; Ø 0.32 in; for CO mean value calculation | 0554 5763 |
| | Cone with spring clamp and handle option, Tmax. 392 °F, Teflon material, Ø 0.24 in | 0554 3327 |
| | Cone with spring clamp and handle option, Tmax. 392 °F, Teflon material, Ø 0.32 in | 0554 3328 |
| Cases & carrying bags | Instrument case (height: 5 in) for instrument, probes and accessories | 0516 3300 |
| | Instrument case with double base (height: 7 in) for instrument, probes and accessories | 0516 3301 |
| | Instrument bag with carrying strap | 0516 3001 |

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# Control via app

## testo Smart App – one app for every step

The testo Smart App guides flue gas measurements, simplifies reporting and keeps heating system diagnostics connected – from setup to documentation.

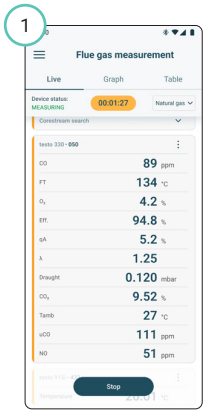
- Guided measurements for heating systems and flue gas analysis
- Automatic Bluetooth connection with smart probes and flue gas analyzers
- Easy setup and live monitoring during evacuation and measurements
- All readings and reports at a glance
- Fast creation and sharing of measurement reports

New

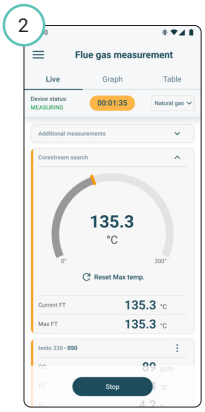
**testo Smart Connect**
Measurement data is automatically synced and always available – across devices, teams and locations.

**Free download:**

JETZT BEI Google Play | Laden im App Store




Full remote control

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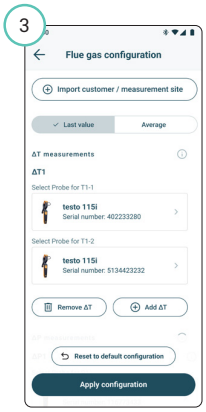
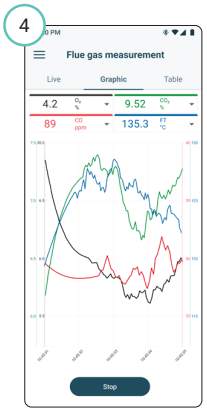



Connect Smart Probes




Analysis of the data

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