

## testo 325 – Introduction to Professional Flue Gas Analysis

### Do you manage to get home by 5pm every day?



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Probably not, because your job expects above-average dedication. You also need partners who won't let you down. We are leading the way with our quality service.

Check it out for yourself.

Do you need an accessory, do you have a question about measuring or do you need a replacement instrument? – Testo Service employees are at your service in many locations – also near you. Good to know when the situation requires.



Condensate trap in instrument



Large, backlit display



Gas pressure measurement with additional socket for +/-



User-friendly operation



## testo 325-2 / 325-3

The testo 325-2 and -3 instruments offer the standard functions of flue gas analysis for the basic adjustment of oil and gas burners.

testo 325-2 measures O<sub>2</sub> in flue gas, flue draught and calculates flue gas loss and efficiency.

testo 325-3 measures the CO level (up to 2000 ppm), draught and gas flow pressure.

- TÜV approved O<sub>2</sub>, CO<sub>2</sub> and temperature measurement function
- Measures flow/return temperature with separate probes;  $\Delta T$  display (325-2/3)
- Data documentation printed on site
- Magnetic SoftCase for protection and positioning

## testo 325 M / 325 XL

testo 325 M and XL instruments supply all important parameters (O<sub>2</sub>, CO, °C) at a glance.

They enable differential temperature and differential pressure measurements (40/200 hPa switchable) and fulfill all the requirements for the adjustment, maintenance and servicing of gas and clean oil burners (CO to 4000 ppm).

- O<sub>2</sub> TÜV approved
  - Data documentation printed on site
- testo 325 XL: Additional features:**
- TÜV approved CO measurement function
  - Cache for
    - CO level, environment
    - O<sub>2</sub> concentration, ingoing air
  - Specific factors can be set for 6 fuels
  - Memory for 20 data blocks
  - Battery recharging in instrument

### testo 325 M

O<sub>2</sub>, CO<sub>2</sub>, °C, CO  
Flue gas analyser incl. battery and calibration protocol

Part no. 0632 0322

### testo 325 XL

O<sub>2</sub>, CO<sub>2</sub>, °C, CO, H<sub>2</sub>  
Flue gas analyser incl. rechargeable battery and calibration protocol

Part no. 0632 0321

### testo 325-2

O<sub>2</sub>, draught, °C measurement  
Flue gas analyser, incl. batteries and calibration protocol

Part no. 0563 0330

Technical data	testo 325-2/-3	testo 325 M	testo 325 XL
<b>Temperature measurement</b>			
Meas. range	-40 to +600 °C	-40 to +600 °C	-40 to +600 °C
<b>Draught/Pressure measurement</b>			
delta P1	±40 hPa	±40 hPa	±40 hPa
delta P2		±200 hPa	±200 hPa
<b>Efficiency measurement (Eta)</b>			
Meas. range	0 to 120 %	0 to 120 %	0 to 120 %
<b>Flue gas loss (qA)</b>			
Meas. range	0 to 99.9% qA	0 to 99.9% qA	0 to 99.9% qA
<b>O<sub>2</sub> measurement</b>			
Meas. range	0 to 21 Vol. % O <sub>2</sub>	0 to 21 Vol. % O <sub>2</sub>	0 to 21 Vol. % O <sub>2</sub>
<b>CO<sub>2</sub> measurement</b>			
Display range	0 to CO2max	0 to CO2max	0 to CO2max
<b>CO measurement</b>			
Meas. range	0 to 2000 ppm	0 to 4000 ppm	0 to 4000 ppm



### Time for the essentials

"To be quite honest, the phones are usually quiet between 6 and 7pm but the few who do call are delighted when somebody answers the phone. That's why I'm happy to be here. Testo, at your service!"

Regina Marx  
Sales

## testo 325 M Basic Set Starter instrument for flue gas analysis

testo 325 M, flue gas analyser incl. battery and calibration protocol  
230 V power unit for mains operation and recharging batteries  
Compact flue gas probe, 180 mm immersion depth  
Ambient air probe, 190 mm immersion depth  
System case for measuring instrument, probe and accessories  
SoftCase made of elastic plastic incl. magnetic plate and carrier strap  
Testo printer

Part no. 0563 0332

## testo 325 XL Basic Set Professional flue gas analysis

testo 325 XL, flue gas analyser incl. rech. battery and calibration protocol  
230 V power unit for mains operation and to recharge batteries  
TÜV approved flue gas probe, 180 mm immersion depth  
Ambient air probe, 190 mm immersion depth  
System case for instrument, probe and accessories  
SoftCase made of elastic plastic incl. magnetic plate and carrier strap  
Smoke tester

Part no. 0563 0334

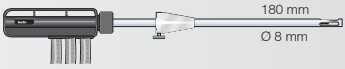
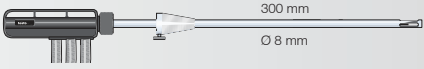
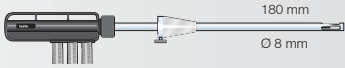



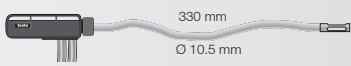
## testo 325-3 Set Flue gas inspection instrument





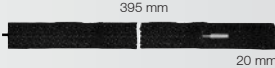
testo 325-3 flue gas analyser incl. batteries and calibration protocol  
Flue gas probe, 180 mm immersion depth  
Case

Part no. 0563 0340

## Accessories

Printer and Accessories	Part no.
Testo printer with cordless IRDA and infrared interface, 1 roll of thermal paper and 4 round batteries, For printout of reading on site	0554 0547
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), permanent ink, Measurement data documentation legible for up to 10 years	0554 0568
Additional Accessories and Spare Parts	Part no.
Power unit 230 V/ 8 V/ 1 A, for instrument (European plug), For mains operation and battery recharging	0554 1084
Hose connection set for gas pressure measurement to heating systems, incl. silicone hoses and T-pieces, For separate gas pressure measurement	0554 0315
Pressure set for gas pressure measurement on heating systems	0554 0449
Spare particle filter (10 off)	0554 0040
Smoke tester with oil, soot sheet, for measuring soot in flue gas	0554 0307
Filter paper to determine smoke number, 40 strips for approx. 200 measurements	0554 0308
Transport and Protection	Part no.
SoftCase made of flexible plastic incl. magnetic plate and carrying strap, protects analyser from dirt and impact (testo 325 M/XL)	0516 2572
System case for measuring instrument, probe and accessories, easily attached to other system cases	0516 0326
Tools system case with tools section, without contents, attachable to system case 0516 0326	0516 0329
Product system case with small plastic boxes, without contents, attachable to system case 0516 0326	0516 0328
Universal system case without sections, attachable to system case 0516 0326, For easy storage of analyser and additional accessories	0516 0331
Transport case (plastic) for instrument, probes and accessories, For safe and orderly storage	0516 3250
SoftCase made of elastic plastic with magnetic plate, carrier strap, Protects instrument from dirt and impact (testo 325-2/-3)	0516 2570
Instrument cleaner (100 ml), for hassle-free and fast removal of dirt from housing, display screen, keypad, probe handle and probe cable	0554 1207

Suitable probes at a glance	Illustration	Part no.
Compact flue gas probe, 180 mm immersion depth incl. probe stop for positioning, NiCr-Ni thermocouple up to +500°C, 1.5 m hose		0600 9544
Compact flue gas probe, 300 mm immersion depth incl. probe stop for positioning, NiCr-Ni thermocouple up to +500°C, 1.5 m hose		0600 9542
TÜV approved flue gas probe, 180 mm immersion depth, corresponding to the latest instrument test guidelines for measurements on atmospheric gas systems, 2.2 m hose		0600 9543
TÜV approved flue gas probe, 300 mm immersion depth, corresponds to the latest instrument testing guidelines, for measurements on atmospheric gas systems, 2.2 m hose		0600 9546
Dual wall clearance probe, sickel shaped supply O <sub>2</sub> probe for measuring the O <sub>2</sub> level in systems independent of ambient air		0632 1244 For testo 325 XL only
High temperature probe, TI thermocouple up to 1000°C, 300 mm immersion depth, incl. probe stop, heat protection screen, 2.2 m hose		0600 8540
Flexible flue gas probe, 330 mm immersion depth, NiCr-Ni thermocouple up to +500°C, 2.2 m hose		0600 9440

Temperature probes	Illustration	Meas. range	Accuracy	t <sub>99</sub>	Conn.	Part no.
Quick-action surface probe with sprung thermocouple strip, for measurements on floor heating systems, radiators, insulations...		-60 to +300 °C	Class 2	3 s	Fixed cable	0602 0392
Ambient air probe, immersion depth 190 mm, with probe stop, magnetic clip, Tmax +100°C, for ambient air temperature measurement in systems which are dependent on/independent of ambient air		0... +100 °C				0600 9788
Ambient air probe, immersion depth 60 mm, with probe stop, magnetic clip, Tmax +100°C, for dual wall clearance temp. meas. in systems with outside primary air intake		0 to +100 °C		30 s		0600 9798
Clamp probe for measurements on pipes, pipe diameter 15 to 25 mm (max. 1"), meas. range short-term up to +130°C		-50 to +100 °C	Class 2	5 s	Fixed cable	0602 4692
Pipe wrap probe with Velcro strip, for temperature measurement on pipes with diameter up to max. 120 mm, Tmax +120°C		-50 to +120 °C	Class 1	90 s	Fixed cable	0628 0020

## testo 325 M – Set with all the tools you need for maintenance

### testo 325 M – Set with all the tools you need for maintenance

**testo 325 M**, flue gas analyser incl. battery and calibration protocol

**230 V power unit** for mains operation and recharging batteries

**Compact flue gas probe**, 180mm immersion depth

**Ambient air probe**, 190mm immersion depth

**System case** for measuring instrument, probe and accessories

**SoftCase** made of elastic plastic incl. magnetic plate and carrier strap

**Testo printer** for printouts on site

**testo 382 multimeter** for testing electrical connections

**Smoke tester** incl. oil, soot sheets and reference scale

**Magnetic tester** for testing reversing valves

**Nozzle spanner** for changing nozzles

**Pressure test set** for oil pressure and vacuum

**testo 506 pressure meter** for measuring gas pressure

**testo 317-1 spillage detector** for detecting escaping flue gas

**testo 317-2 gas leak stick** for locating gas leaks



The complete set in a robust case

Everything is stored ready to hand and easy to find in a robust and practical Testo system case: testo 325 M flue gas analyser, power unit, 180 mm compact flue gas probe, 190 mm ambient air probe, SoftCase, Testo printer, multimeter, smoke tester, magnetic tester, nozzle spanner, pressure test set, pressure meter, spillage detector, gas leak stick and service labels – i.e. fully equipped for maintenance on oil burners and gas heaters.

**Part no.** 0563 0333