

testo 327 – Robust and fast-action flue gas analyser for all important parameters

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.



Excellent display clearness even in unfavourable lighting conditions



Fast probe connection: All gas paths are connected with one "click"



Sensors are as easy to change as a battery



Latest Li-ion rechargeable batteries



testo 327-1 – Basic instrument for heating and installation technicians

testo 327-1

testo 327-1 is your introductory instrument to flue gas analysis. It measures combustion efficiency, °C, O₂, CO₂, CO and flue draught. The strong LED background light in the 4 line display guarantees an easy-to-read display even if lighting conditions are unfavourable. The analyser stands out on account of its easy menu navigation and ergonomic housing as well as its durability.

- Easy menu navigation
- 4 line segment display
- LED display light
- Easy IR printout
- Built-in condensate trap
- TÜV By RgG 253 acc. to 1. BlmSchV
- EN 50379 Part 2 for O₂, °C, hPa
- EN 50379 Part 3 for CO
- Small Li-ion rechargeable battery (1200 mA, lifetime of 5 h) can be recharged inside or outside instrument
- Fast probe connection using single probe plug
- Ambient CO measurement using flue gas probe
- O₂ dual wall measurement (can be stored)
- Separate AT temperature measurement
- Undiluted CO measurement (can be stored)
- Draught measurement
- 8 fuels
- IP 40



Stable probes filter particles before they get into gas paths



Built-in condensate trap



The "second skin" is integrated into the instrument design and protects from impact and shock during tough everyday use

Technical data

Temperature measurement	-40 to +600 °C
Draught measurement	±40 hPa
Efficiency measurement (Eta)	0 to 120%
Flue gas loss (qA)	0 to 99.9%
O ₂ measurement	0 to 21 Vol. %
CO ₂ measurement	0 to CO ₂ max
CO measurement	0 to 4000 ppm

Weight	Approx. 500 g
Dimensions	216 x 68 x 47 mm
Storage temp.	-20 to +50 °C
Oper. temp.	-5 to +45 °C
Power supply	via Li-Ion rechargeable battery
Battery life	> 5 h
Warranty	2 years on instrument, probes and gas sensors 1 year on thermocouple and rechargeable battery (wearing parts excluded)



testo 327-2 – Service instrument for heating technicians and inspectors

testo 327-2

The testo 327-2 service analyzer measures combustion efficiency, °C, O₂, CO₂, CO and flue draught. The bright LED backlight in the 4-line display guarantees an easy-to-read display even if lighting conditions are unfavourable. The analyzer stands out on account of its easy menu navigation and ergonomic housing as well as its durability.

testo 327-2 entices the user with additional useful features such as the data store (20 measurements), differential temperature measurement to determine flow and return temperatures or differential pressure measurement to adjust pressure ratios in gas systems.

Official measurements on gas burners in accordance with EN 50379 Part 2 are also possible thanks to the option of a H₂ compensated CO sensor.

The IrDa interface opens communication options with a Pocket PC.

- Life expectancy of gas sensors up to 3 years
- Assurance thanks to instrument and sensor diagnosis
- IR and IRDA interface for easy reading out of data to printer or Pocket PC
- Prepared for Bluetooth
- Delta T measurement
- Delta P measurement: 2 measurement ranges
- Store (20 readings)
- Li-ion rechargeable battery (2,400 mA), 10 hr lifetime
- TÜV By RgG 254 acc. to 1. BImSchV
- CO option with H₂ compensation
- Official test in accordance with EN standard 50379-2 for °C; O₂, hPa, Part 3 for CO
- Optional Part 2 for CO with H₂ compensation

Technical data	
Temperature measurement	-40 to +600 °C
Draught measurement	±40 hPa
Pressure measurement	±200 hPa
Efficiency measurement (Eta)	0 to 120%
Flue gas loss (qA)	0 to 99.9%
O ₂ measurement	0 to 21 Vol. %
CO ₂ measurement	0 to CO ₂ max
CO measurement	0 to 4000 ppm
Option CO measurement (H ₂ -compensated)	0 to 8000 ppm
Weight	Approx. 500 g
Dimensions	216 x 68 x 47 mm
Storage temp.	-20 to +50 °C
Oper. temp.	-5 to +45 °C
Power supply	via Li-ion rechargeable battery
Battery life	> 10 h
Warranty	2 years on instrument, probes and gas sensors 1 year on thermocouple and rechargeable battery (wearing parts excluded)



Accessories testo 327

Instrument/Options	Part no.
testo 327-1 flue gas analyser, rechargeable battery and calibration protocol included, measures O ₂ , CO, hPa and °C	0632 3201
testo 327-1 O ₂ flue gas analyser, rechargeable battery and calibration protocol included, measures O ₂ , hPa and °C	0632 3203
testo 327-1 CO flue gas analyser, rechargeable battery and calibration protocol included, measures CO, hPa and °C	0632 3204
testo 327-2 flue gas analyzer, rechargeable battery and calibration protocol included, measures O ₂ , CO, hPa and °C	0632 3202
Upgrade/Options	Part no.
Option: CO-H ₂ -measurement for testo 327	0440 3273
Option: fine draught measurement, resolution 0.1 Pa, measurement range up to 100 Pa (instead of standard draught measurement) - for testo 327-1, 327-1 O ₂ /CO and testo 327-2	0440 3271
Option: fine differential pressure measurement, resolution 1 Pa; for testo 327-2 only	0440 3272
Retrofits	Part no.
Retrofit: O ₂ measurement for testo 327-1 CO	
Retrofit: CO measurement for testo 327-1 O ₂	
Spare sensors	Part no.
Spare O ₂ sensor for testo 327-1, 327-1 O ₂	0390 0047
Spare CO sensor for testo 327-1, 327-1 CO	0390 0046
Spare O ₂ sensor, Testo-specific	0390 0092
Spare CO sensor, Testo-specific, (without H ₂ compensation)	0390 0095
Spare CO sensor, Testo-specific (H ₂ compensated)	0390 0109
Accessories	Part no.
100-240 V mains unit for mains operation or batt. recharging in analyser	0554 1086
Spare rech. batt. w/ charging station	0554 1087
Testo printer with wireless IRDA and infrared interface, 1 roll of thermal paper and 4 AA batteries	0554 0547
Spare thermal paper for printer (6 rolls), permanent ink	0554 0568
Instrument cleaner (100 ml)	0554 1207
Smoke tester with oil, soot sheet, for measuring soot in flue gas	0554 0307
Hose connection set for separate gas pressure measurement	0554 1203
Update: easyheat.mobile. Software for Pocket PC for mobile applications. (only for testo 327-2)	0554 1211
Full version easyheat and easyheat.mobile. Software package for PC and Pocket PC. Please order USB cable 0449 0047 separately. (for testo 327-2 only)	0554 1210
ISO calibration certificate/flue gas	0520 0003
Differential temperature set consisting of 2 Velcro probes and temperature adapter	0554 1208
Spare particle filter (10 off)	0554 0040
Cases	Part no.
Basic system case for analyzer, probes and accessories	0516 3330
Probes	Part no.
Compact basic flue gas probes available in two lengths, probe stop, NiCr-Ni thermocouple, 1.5 m hose and particle filter included	
Compact flue gas probe, 180 mm long, Ø 6 mm, Tmax. 500°C	0600 9740
Compact flue gas probe, 300 mm long, Ø 6 mm, Tmax. 500°C	0600 9741
Flexible flue gas probe, 330 mm long, Ø 10.5 mm, connection head 6 mm, Tmax. 180°C, short-term up to 200°C	0600 9742
Modular flue gas probe from the testo 330 product line, available in 2 lengths, probe stop, NiCr-Ni thermocouple, 2.2 m hose and particle filter included	
Flue gas probe, 180 mm long, Ø 8 mm, Tmax 500 °C, TÜV approval	0600 9760
Flue gas probe, 300 mm long, Ø 8 mm, Tmax 500 °C, TÜV approval	0600 9761
Flue gas probe, 180 mm long, Ø 6 mm, Tmax 500 °C	0600 9762
Flue gas probe, 300 mm long, Ø 6 mm, Tmax 500 °C	0600 9763
Flexible flue gas probe, 330 mm long, Tmax. 180 °C, short-term 200 °C, bending radius max. 90° for measuring at inaccessible points	0600 9764
Probe accessories	
Probe shaft, 180 mm long, Ø 8 mm, Tmax 500 °C	0554 9760
Probe shaft, 180 mm long, Ø 6 mm, Tmax 500 °C	0554 9762
Probe shaft, 300 mm long, Ø 8 mm, Tmax 500 °C	0554 9761
Probe shaft, 300 mm long, Ø 6 mm, Tmax 500 °C	0554 9763
Probe shaft, 335 mm long, with probe stop, Ø 8 mm, Tmax 1000 °C	0554 8764
Flexible probe shaft, 330 mm long, Ø 10 mm, Tmax 180 °C	0554 9764
Multi-hole probe shaft, 300 mm long, Ø 8 mm, for mean CO calculation	0554 5762
Multi-hole probe shaft, 180 mm long, Ø 8 mm, for mean CO calculation	0554 5763
Hose extension, 2.8 m, extension cable for probe and analyser	0554 1202
6 mm probe stop, PTFE, with spring clamp and handle, Tmax 200 °C	0554 3327
8 mm probe stop, PTFE, with spring clamp and handle, Tmax 200 °C	0554 3328
8 mm probe stop, steel, with spring clamp and handle, Tmax 500 °C	0554 3330
6 mm, probe stop, steel, with spring clamp and handle, Tmax 500 °C	0554 3329
Additional probes	
Dual wall clearance probe for O ₂ supply air measurement	0632 1260
Combustion air temperature probes	
Combustion air temperature probe, immersion depth 300 mm	0600 9791
Combustion air temperature probe, immersion depth 190 mm	0600 9787
Combustion air temperature probe, immersion depth 60 mm	0600 9797
Pipe wrap probe with Velcro	0600 0020
Quick-action surface probe with sprung thermocouple strip, measuring range short-term to +500°C	0604 0194