

We measure it.



Flue gas analyser

testo 327 – The special class entry instrument

Simple menu structure

4-line segment display with LED illumination

Fast, single-plug probe connection

8 selectable fuels

Life expectancy of sensors up to 3 years

Easy IR printout

Li-Ionen rech. battery (2,400 mA), life 10 hours

TÜV-tested according to 1. BImSchV / EN 50379



O₂

CO₂

CO

HPA

QA

ETA

°C

The special class entry instrument

testo 327 is the entry measuring instrument for flue gas analysis. It measures combustion efficiency, °C, O₂, CO₂, CO and flue draught. A dual wall O₂ measurement as well as an ambient CO measurement are also possible. The powerful LED backlighting in the 4-line display guarantees good legibility even in unfavourable lighting. The measuring instrument stands out thanks to its ergonomic housing design as well as its durability (IP40). The integrated sensor and instrument diagnosis offers security and guarantees high availability of the instrument. The testo 327 is TÜV-tested according to BImSchV and fulfils the requirements of EN50379. The quick probe connection of the testo 327 allows easy and uncomplicated connection of the probe. For simpler applications, the single-sensor instrument versions testo 327-1 O₂ and testo 327-1 CO are suitable. The testo 327-1 O₂ measures the O₂ content of the flue gas, the flue gas temperature and the flue draught. The flue gas loss and the efficiency are calculated. The testo 327-1 measures the CO content of the flue gas, the flue gas temperature and the flue draught.



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



Excellent display clearness even in unfavourable lighting conditions



Stable probes filter particles before they get into gas paths



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



Built-in condensate trap

testo 327-1

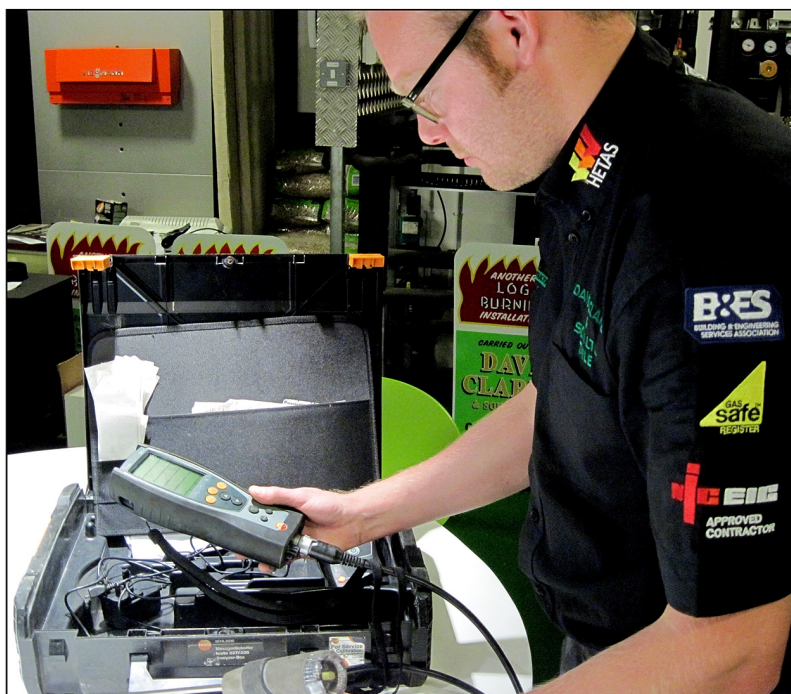
The starter instrument for flue gas analysis

- Contains all basic functions such as combustive effectivity, flue gas loss, O₂, CO₂, CO and flue draught
- Robust and protected from impact by Elastomer protection class
- Easy operational structure and procedure
- Ideal handling thanks to easy menu structure and ergonomic housing
- Stable measurement value within 30 sec.
- Compatible with the entire probe range of testo 330
- Low weight (ca. 500 g)
- TÜV-geprüft nach 1. BImSchV / EN 50379 Teil 2 für O₂, °C, hPa und Teil 3 für CO



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.



Dave Clark & Son Ltd - Testo 327 Customer

Flue gas analyser testo 327-1

testo 327-1

testo 327-1 flue gas analyser, incl. rech. battery and calibration protocol; measures O₂, CO, hPa, °C

Part no. 0632 3201



testo 327-1 CO

testo 327-1 CO flue gas analyser, incl. rech. battery and calibration protocol; measures CO, hPa, °C

Part no. 0632 3204

testo 327-1 O₂

testo 327-1 O₂ flue gas analyser, rech. battery and calibration protocol; measures O₂, hPa, °C

Part no. 0632 3203

testo 327-1 Advanced Set for heating and installation technicians

testo 327-1 flue gas set advanced for heating fitters and installation technicians, incl. rech. batteries and calibration protocol; mains unit 100-240 V for mains operation or battery charging in instrument; Differential hose and temperature kit; compact flue gas probe, length 180 mm, Ø 6mm; combustion air temperature probe, length 190 mm, fast printer with wireless infrared interface; instrument cleaner 100 ml, basic system case instrument, probes and accessories

Part no. 0563 3203 71



Illustration may differ from original

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

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

- Easy menu navigation
- 4 line segment display
- LED display light
- Easy IR printout
- Built-in condensate trap
- TÜV By RgG 253 acc. to 1. BImSchV
- 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
- 6-8 fuels (country-specific (e.g. UK=6))
- IP 40



Accessories

Upgrade/Options		Part no.
Option: CO-H2-measurement for testo 327		0440 3273
Option: fine draught measurement, resolution 0.1 Pa, measurement range up to100 Pa (instead of standard draught measurement) - for testo 327-1, 327-1 O2/CO and testo 327-2		0440 3271
Option: fine differential pressure measurement, resolution 1 Pa; for testo 327-2 only		0440 3272
Option BLUETOOTH® module*		0344 0011
Retrofits		
Retrofit: O ₂ measurement for testo 327-1 CO		
Spare sensors		Part no.
Spare O2 sensor for testo 327-1, 327-1 O2		0390 0047
Spare CO sensor for testo 327-1, 327-1 CO		0390 0046
Spare O2 sensor, Testo-specific		0390 0092
Spare CO sensor Testo-specific (without H2 compensation)		0390 0095
Spare CO sensor testo-specific (H2 compensated)		0390 0109
Accessories		Part no.
Mains unit international 100-240 V AC / 6,3V DC for mains operation or battery charging in instrumentfor mains operation or battery charging in instrument		0554 1096
Spare rech. batt. w/ charging station testo 327 / testo 330-1/-2		0554 1087
Testo fast printer IRDA with wireless infrared interface; 1 roll thermal paper; 4 AA batteries		0554 0549
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 testo 327 / testo 330-LL		0554 1203
Full version easyheat and easyheat.mobile . Software package for PC and Pocket PC. (for testo 327-2 only)		0554 1210
ISO calibration certificate/flue gas		0520 0003
Differential temperature set consisting of 2 Velcro probes and temperature adaper testo 327		0554 1208
Spare particle filter, 10 off		0554 3385
Spare soot filter paper; 8 paper rolls		0554 0146
Cases		Part no.
System case flat		0516 3334

*Country permits: The BLUETOOTH® wireless module used by Testo has permits for the following listed countries, and can only be used in those countries, i. e. BLUETOOTH® wireless transfer may not be used in any other country! Europe including all EU member states: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden and Turkey; European countries (EFTA): Iceland, Liechtenstein, Norway and Switzerland; Non-European countries: Ukraine, Colombia and El Salvador.



Probes

Compact basic flue gas probes available in two lengths, probe stop, NiCr-Ni thermocouple, 1.5 m hose and particle filter included

Part no.

Flue gas probe compact; length 180 mm; Ø 6 mm; Tmax. 500 °C; probe stop; NiCr-Ni thermocouple, 2.2 m hose and particle filter included	0600 9740	
Flue gas probe compact; length 300 mm; Ø 6 mm; Tmax. 500 °C; probe stop; NiCr-Ni thermocouple, 2.2 m hose and particle filter included	0600 9741	

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

Part no.

Flue gas probe; length 180 mm; Ø 8 mm; Tmax. 500 °C; TÜV approval; probe stop; NiCr-Ni thermocouple; 2.2 m hose and particle filter included	0600 9760	
Flue gas probe; length 300 mm; Ø 8 mm; Tmax. 500 °C; TÜV approval; probe stop; NiCr-Ni thermocouple; 2.2 m hose and particle filter included	0600 9761	
Flue gas probe; length 180 mm; Ø 6 mm; Tmax. 500 °C; probe stop; NiCr-Ni thermocouple; 2.2 m hose and particle filter included	0600 9762	
Flue gas probe; length 300 mm; Ø 6 mm; Tmax. 500 °C; probe stop; NiCr-Ni thermocouple; 2.2 m hose and particle filter included	0600 9763	
Flue gas probe flexible; length 330 mm; Tmax. 180 °C; short-term 200 °C; bending radius max. 90 °C for measuring at inaccessible points; probe stop; NiCr-Ni-thermocouple; 2,2 m hose and particle filter included	0600 9764	

Probe accessories

Part no.

Probe shaft; length 180 mm; 8 mm; Tmax. 500 °C	0554 9760	
Probe shaft; length 180 mm; Ø 6 mm; Tmax. 500 °C	0554 9762	
Probe shaft; length 300 mm; Ø 8 mm; Tmax. 500 °C	0554 9761	
Probe shaft with probe stop, length probe shaft 335 mm, Tmax probe shaft 1000 °C, Ø probe shaft 8 mm	0554 8764	
Probe shaft flexible; length 330 mm; Ø 10 mm; Tmax. 180 °C	0554 9764	
Probe shaft multi-hole; length 300 mm; Ø 8 mm; for mean CO calculation	0554 5762	
Probe shaft multi-hole; length 180 mm; 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	
Probe stop 8 mm; steel; with spring clamp and handle; Tmax. 500 °C	0554 3330	
Probe stop 6 mm; steel; with spring clamp and handle; Tmax. 500 °C	0554 3329	
Modular flue gas probe handle	0440 3334	

Additional probes

Part no.

Dual wall clearance probe for O2 supply air measurement	0632 1260	
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Combustion air temperature probes

Part no.

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	
Quick-action surface probe	0604 0194	

