

# Flue gas analyser

**testo 327-1: trusted and reliable flue gas measurement**

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Simple menu structure

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4-line segment display with LED illumination

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Fast and robust probe connection

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7 selectable fuels

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Timed Ambient CO measurement

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Tightness and let-by tests

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Flow and return temperatures

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Easy IR printout

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4,000ppm CO sensor protected by automatic pump shut-off

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Tested to EN50379, conforms to BS7967 & Gas Safe TB143

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## testo 327-1 - the reliable and trusted analyser

The testo 327-1 is the entry measuring instrument for flue gas analysis. It measures combustion efficiency, °C, O<sub>2</sub>, CO<sub>2</sub>, CO and flue draught.

A dual wall O<sub>2</sub> 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 poor 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 327-1 is tested to EN50379, and also conforms to BS7967 and Gas Safe TB143. The single integrated flue gas and thermocouple connector of the testo 327-1 ensures a fast, gas tight connection to the sample hose every time. The testo 327-1 also has automatic pump protection as standard to help protect the CO measuring cell from damage due to over-range (4,000ppm range capability).



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"



Latest Li-ion rechargeable batteries



Built-in condensate trap

## testo 327-1

The testo 327-1 provides best quality and value for flue gas analysis and much more. It measures combustion efficiency, °C, O<sub>2</sub>, CO<sub>2</sub>, CO and flue draught. The strong LED background light in the 4 line display guarantees an easy-to-read display even lighting conditions are unfavourable. The analyser stands out on account of its easy menu navigation and ergonomic housing as well as its durability.



## testo 327-1 Standard Kit

### Contents

- testo 327 handset
- Flue Gas Probe (180mm x 6mm diameter)
- AC power supply
- Soft carry case & strap
- Calibration protocol

Order no: 0563 3203 80



## testo 327-1 Advanced Kit

### Contents

- All items in the standard kit +
- Rechargeable battery
- Pressure hose adapter kit
- Differential temperature kit
- testo infrared printer (0554 0549)

Order no: 0563 3203 81





## testo 327-1 Standard Kit + testo 316i gas leak detector

### Contents

- All items in the standard kit +
- testo 316i gas leak detector

Order no: 300563 1327



## testo 327-1 Standard Kit + testo 316i & CPA1 probe set

### Contents

- All items in the standard kit +
- testo 316i gas leak detector
- BS7967 CPA1 probe set

Order no: 300563 3327



## testo 327-1 Advanced Kit + testo 316i gas leak detector

### Contents

- All items in the advanced kit +
- testo 316i gas leak detector

Order no: 300563 2327



## testo 327-1 Advanced Kit + testo 316i & CPA1 probe set

### Contents

- All items in the advanced kit +
- testo 316i gas leak detector
- BS7967 CPA1 probe set

Order no: 300563 4327





# testo 327-1 flue gas analyser

## Technical data

Temperature measurement	-40 to +600 °C
Draught measurement	±40 mbar
Efficiency measurement (Eta)	0 to 120%
Flue gas loss (qA)	0 to 99.9%
O <sub>2</sub> measurement	0 to 21 Vol. %
CO <sub>2</sub> measurement	0 to CO <sub>2</sub> max
CO measurement	0 to 4000 ppm
Pressure measurement	-200..+200 mbar

Storage temperature	-20 to +50 °C
Operating temperature	-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 3 years on O <sub>2</sub> & CO sensors 1 year on battery and thermocouple

- Easy menu navigation
- 4 line segment display
- LED display light
- Easy IR printout
- Built-in condensate trap
- EN 50379 Part 2 for O<sub>2</sub>, °C, mbar
- EN 50379 Part 3 for CO
- Li-ion rechargeable battery
- Fast probe connection using single probe plug
- Ambient CO measurement using flue gas probe
- Differential temperature measurement
- Flue draught and differential pressure measurement
- Timed ambient CO measurement
- Tightness and let-by tests
- 7 fuels available in menu

## Accessories

	Order no.
Mains unit international 100-240 V AC / 6,3V DC for mains operation or battery charging in instrument for mains operation or battery charging in instrument	0554 1096
Testo fast printer IRDA with wireless infrared interface; 1 roll thermal paper; 4 AA batteries	0554 0549
Spare thermal paper for printer (6 rolls)	0554 0568
testo manual smoke pump for testing oil fired boilers	300554 0307
Hose connection set for separate gas pressure measurement testo 327 / testo 330-LL	0554 1203
Differential temperature set consisting of 2 clamp probes and thermocouple adapter	0554 7223
Spare particle filter, 10 off	0554 0040
Spare soot filter paper; 8 paper rolls	0554 0146
CPA1 Probe Set: Includes angled probe, gas cooker probe, straight probe with modular handle, hose connector, silicone hose	300554 2000

## Probes

	Order 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
Combustion air temperature probe, immersion depth 190 mm	0600 9787
Combustion air temperature probe, immersion depth 60 mm	0600 9797
Dual wall clearance probe for O <sub>2</sub> supply air measurement	0632 1260

01/2020. Subject to change without notice. Shipping costs & VAT not included.