Data sheet
testo 310

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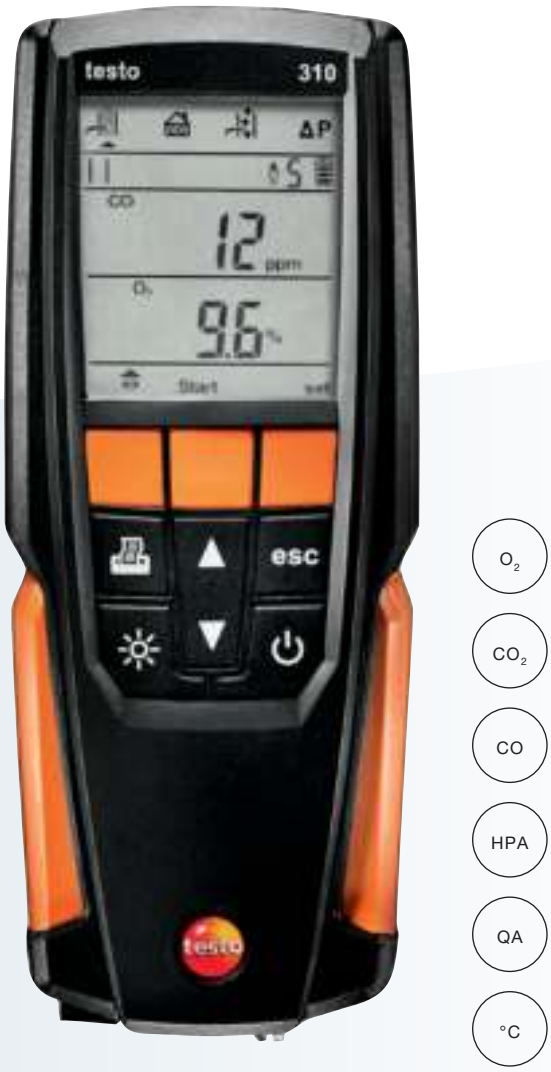
Flue gas analyzer

testo 310 – Flue gas analysis the easy way



- Robust design for daily use
- Battery lifetime up to 10 hours
- Integrated measurement menus: Flue gas, draught, ambient CO and pressure
- Fast sensor zeroing in only 30 seconds
- Illuminated display
- Documentation of measurement results via printer with infrared interface

The new flue gas analyzer testo 310 combines simple functions with a high level of masurement accuracy, and is therefore perfectly suited to all basic measurements on a heating system. Long battery lifetimes of up to ten hours guarantee high availability. Its easy handling and compact design make the testo 310 a robust tool for day-to-day work – even when things get rough. Clear reports can be created as required on site thanks to the infrared interface printer specially developed for the testo 310. The current measurement value can be printed out from all measurement menus, either during or after the measurement. The testo 310 offers all avantages of electronic flue gas measurement in high quality at a perfect cost/benefit ratio.

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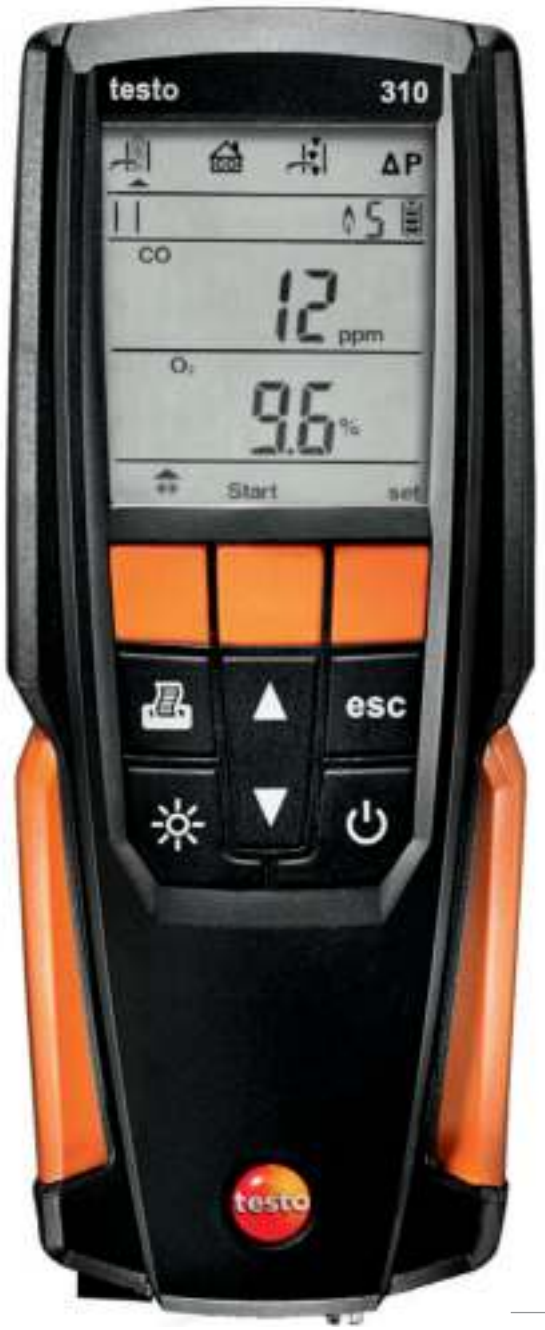
Product properties



Robust
Robust and light instrument for daily use – ideal even for tough and dirty surroundings

Backlit display
Two-line display and clear menu structure. Simple to operate and easy to read.

Fast sensor zeroing
Automatic zeroing of gas sensor in only 30 seconds after starting up, which can be cancelled if not required.

Lithium rechargeable battery
Operation with a Lithium rechargeable battery (1500 mAh) – no change of battery necessary, up to ten hours running time, charging via USB connection possible.

Probe filter
Can be changed quickly and easily.

Attachment
Integrated magnets for easy attachment to the burner.

Condensate trap
Integrated condensate trap – can be emptied very quickly and easily.

Printer
Documentation via infrared printer.

Ordering data

testo 310 flue gas set

testo 310 incl. battery and calibration protocol for the measurement of O_2, CO, hPa and °C; probe 180 mm with cone; case; mains unit incl. cable; silicon hose for pressure measurement; particle filter 5 off.

Part no. 0563 3100

testo 310 flue gas set with printer

testo 310 incl. battery and calibration protocol for the measurement of O_2, CO, hPa and °C; IR printer (0554 3100); probe 180 mm with cone; case; mains unit incl. cable; silicon hose for pressure measurement; particle filter 5 off; 2 rolls spare thermal paper for printer.

Part no. 0563 3110

Testo IR printer

Testo IR printer with wireless infrared interface, 1 roll thermal paper and 4 AA batteries.

Part no. 0554 3100

Accessories

Product sets	**Part no.**	
testo 310 flue gas set	0563 3100	
testo 310 flue gas set with printer	0563 3110	
Accessories for measuring instrument		
USB mains unit incl. cable	0554 1106	
Testo IR printer	0554 3100	
Testo fast printer IRDA	0554 0549	
Spare thermal paper for printer, permanent ink	0554 0568	
Spare particle filter	0554 0040	
Spare gas sensors		
Replacement O_2 sensor	0390 0085	
Spare CO sensor	0390 0119	

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Technical data

	Measuring range	Accuracy ±1 digit	Resolution	Adjustment time t_{90}
Temperature (flue gas)	0 to +400 °C	±1 °C (0 to +100 °C) ±1.5% of m.v. (>100 °C)	0.1 °C	< 50 s
Temperature (ambient temperature)	-20 to +100.0 °C	±1 °C	0.1 °C	< 50 s
Draught measurement	-20 to +20 hPa	±0.03 hPa (-3.00 to +3.00 hPa) ±1.5% of m.v. (remaining range)	0.01 hPa	
Pressure measurement	-40 to 40 hPa	±0.5 hPa	0.1 hPa	
O_2 measurement	0 to 21 Vol. %	±0.2 Vol. %	0.1 Vol. %	30 s
CO measurement (without H_2 compensation)	0 to 4000 ppm	±20 ppm (0 to 400 ppm) ±5% of m.v. (401 to 2000 ppm) ±10% of m.v. (2001 to 4000 ppm)	1 ppm	60 s
Ambient CO measurement	0 to 4000 ppm	±20 ppm (0 to 400 ppm) ±5% of m.v. (401 to 2000 ppm) ±10% of m.v. (2001 to 4000 ppm)	1 ppm	60 s
Efficiency (ETA)	0 to 120 %	-	0.1%	-
Flue gas loss	0 to 99.9%	-	0.1%	-

General technical data

Storage temperature	-20 to +50 °C
Operating temperature	-5 to +45 °C
Power supply	Battery: 1500 mAh, mains unit 5V/1A
Memory	No memory

Display	Backlit 2-line display
Weight with probe	Approx. 700 g
Dimensions	201 x 83 x 44 mm

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