

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 measurement 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 advantages of electronic flue gas measurement in high quality at a perfect cost/benefit ratio.

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 O₂, 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 O₂, 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 1105 | |
| 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 | |

Technical data

| | Meas. range | Accuracy ± 1 digit | Resolution | Adjustment time t_{90} |
|--|------------------|---|------------|--------------------------|
| Temperature (flue gas) | 0 to +400 °C | ± 1 °C (0 to +100 °C) $\pm 1.5\%$ of mv (>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) $\pm 1.5\%$ of mv (remaining range) | 0.01 hPa | |
| Pressure measurement | -40 to 40 hPa | ± 0.5 hPa | 0.1 hPa | |
| O₂ measurement | 0 to 21 Vol. % | ± 0.2 Vol. % | 0.1 Vol. % | 30 s |
| CO measurement (without H₂ compensation) | 0 to 4000 ppm | ± 20 ppm (0 to 400 ppm) $\pm 5\%$ of mv (401 to 2000 ppm) $\pm 10\%$ of mv (2001 to 4000 ppm) | 1 ppm | 60 s |
| Ambient CO measurement | 0 to 4000 ppm | ± 20 ppm (0 to 400 ppm) $\pm 5\%$ of mv (401 to 2000 ppm) $\pm 10\%$ of mv (2001 to 4000 ppm) | 1 ppm | 60 s |
| Efficiency (ETA) | 0 to 120 % | - | 0.1% | - |
| Flue gas loss | 0 to 99.9% | - | 0.1% | - |

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Subject to change without notice.

General technical data

| | | | |
|---------------|-------------------------------------|-------------------|--|
| Storage temp. | -20 to +50 °C | Display | Backlit 2-line display |
| Oper. temp. | -5 to +45 °C | Weight with probe | Approx. 700 g |
| Power supply | Battery: 1500 mAh, mains unit 5V/1A | Dimensions | 201 x 83 x 44 mm |
| Memory | No memory | Warranty | Measuring instrument, flue gas probe, gas sensors: 24 months Thermocouple: 12 months Battery: 12 months |

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