

Flue gas analyzer

testo 310 II - Flue gas analysis the easy way

Simultaneous, individual measurement and display of all relevant measurement parameters (O₂, CO, CO₂, flue gas and ambient temperature, CO environment, draft and pressure). Display configurable via the testo Smart App.

Simultaneous, additional measurements via the testo Smart App (e.g. gas flow pressure, flow and return temperature)

Easy and intuitive menu guidance

Data documented and sent digitally via testo Smart App

Digital customer data management via testo Smart App

Rechargeable lithium battery for over 8 hours of operation

Robust construction

Sensor zeroing in 30 seconds



Bluetooth 5.0

+ App

testo Smart App
for free download



The new testo 310 II flue gas analyzer combines simple functions with a high level of measurement accuracy, and is perfect for all basic measurements on heating systems. Long battery lifetimes of more than eight hours guarantee the analyzer is ready. Simultaneous, individual measurement and display of the measurement parameters in the instrument's high-resolution display are easily possible. The display can be easily configured via the testo Smart App and translates to the 310 II. Its easy handling and compact design make the testo 310 II a robust tool for daily work – even when things get rough.

The printer with Bluetooth® interface, specially developed for the testo 310 II, allows you to create clear reports on site as required. The current measurement value can be printed out of any measurement menu during or after the measurement. Via the simple connection to the testo Smart App, further measurements as well as digital documentation, data transfer and digital customer data management can be performed simultaneously. The testo 310 II offers all advantages of electronic flue gas measurement in high quality at a perfect cost-benefit ratio.

Product features



testo Smart App

Additional, simultaneous measurements, digital documentation, data transfer and digital customer data management via the testo Smart App.



Configurable display

Seven-line display with clear menu structure. Easy to operate and clearly legible. Display configurable via the testo Smart App.



Robust

Robust and light instrument for daily use – excellently suitable even for rough and dirty surroundings.



Automatic zeroing of sensor

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



Rechargeable lithium battery

Operation with rechargeable lithium battery (1500 mAh) – no need to change battery, over eight hours running time, charging via USB possible.



Condensate trap

Integrated condensate trap – very quick and easy to empty.



Attachment

Integrated magnets for easy attachment to burner.



Probe filter

Quickly and easily exchangeable.



Printer

Documentation via the Bluetooth® interface.

Order data

testo 310 II Combustion Analyzer Kit

testo 310 II for the measurement of O₂, CO, inH₂O (hPa) and °F (°C); incl rechargeable battery, probe (180 mm with cone), case, power supply and cable, silicon hose for pressure measurement, 5x particle filters, USB-C cable, and certificate of conformity



Order no. 0563 3104 01

testo 310 II Combustion Analyzer Printer Kit

testo 310 II for the measurement of O₂, CO, inH₂O (hPa) and °F (°C); includes rechargeable battery, probe (180 mm with cone), case, power supply with cable, silicon hose for pressure measurement, 5x particle filters, USB-C cable, Bluetooth®/IRDA Printer (0554 0621), 2x rolls thermal paper for printer, certificate of conformity



Order no. 0563 3105 01

testo BT printer

testo BLUETOOTH®/IRDA printer with wireless infrared interface, 1 roll of thermal paper and 4 AA batteries



Order no. 0554 0621

Accessories

Product kits	Order no.
testo 310 II Combustion Analyzer	0563 3104 01
testo 310 II Combustion Analyzer with Printer	0563 3105 01
Measuring instrument accessories	
Power supply, including cable	0554 1105
testo BLUETOOTH®/IRDA printer	0554 0621
Spare thermal paper for printer, permanent ink (6 rolls)	0554 0568
Spare dirt filter (10 pcs.)	0554 0040

Technical data

	Measuring range	Accuracy ± 1 digit	Resolution	Adjustment time t_{90}
Temperature (flue gas)	32 to 752 °F (0 to +400 °C)	± 1.8 °F (32° to 212 °F) / ± 1 °C (0 to +100 °C) ± 1.5 % of mv (> 212 °F) / ± 1.5 % of mv (> 100 °C)	0.1 °F (0.1 °C)	< 50 sec
Temperature (ambient temperature)	-4° to 212 °F (-20 to +100 °C)	± 2 °F (± 1 °C)	0.1 °F (0.1 °C)	< 50 sec
Draft measurement	-8 to +8 InH ₂ O (-20 to +20 hPa)	± 0.01 InH ₂ O (-1.20 to +1.20 InH ₂ O) ± 0.03 hPa (-3.00 to +3.00 hPa) ± 1.5 % of mv (Remaining Range)	0.01 InH ₂ O (0.01 hPa)	
Pressure measurement	-16 to +16 InH ₂ O (-40 to 40 hPa)	± 0.2 InH ₂ O (± 0.5 hPa)	0.1 InH ₂ O (0.1 hPa)	
O₂ measurement	0 to 21 vol. %	± 0.2 vol. %	0.1 vol. %	30 sec
CO measurement (without H₂-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 sec
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 sec
Efficiency testing (Eta)	0 to 120 %	-	0.1 %	-
Flue gas loss	0 to 99.9 %	-	0.1 %	-

General technical data

Storage temperature	-4° to 122 °F (-20 to +50 °C)
Operating temperature	23° to 113 °F (-5 to +45 °C)
Power supply	Rechargeable battery: 1500 mAh, Power supply: 5V/1A
Memory	Reports saved within testo Smart App

Display	Graphic 7-line display
Weight with probe	Approx. 1.5 lbs (660 g)
Dimensions	8 x 3 x 2 in. (201 x 83 x 44 mm)