



Parallel ambient CO/CO₂ measurement.

testo 315-3: Measurement of ambient air according to European Norm EN 50543.

Where can you use the testo 315-3?

In ambient measurements, where parallel CO/CO₂ data are required.

Combustion processes continually alter the composition of the ambient air. Certain CO and CO₂ concentrations are dangerous for humans. In order to monitor these, measurements in various areas are necessary.

As a heating constructor and service technician, you monitor ambient air-dependent and independent gas systems in private houses, business buildings or industrial plants.



Equipped for the future.

The testo 315-3 can be used for ambient measurements in many areas:

- Heating rooms
- Kitchens and laundries
- Ventilation and conditioning systems
- Industry and warehousing



Why does the testo 315-3 offer a high level of security?

Because of its parallel measurement function.



The most important features at a glance

- Parallel and direct CO/CO₂ measurement
- TÜV tested according to EN 50543
- Convenient, easy operation
- Measurement values transferable to testo 330 (V2010)
- Data printout on site



Precision – from the sensor to the housing.

With a highly accurate electrochemical sensor for CO measurement and a shock-resistant infrared CO₂ sensor, the testo 315-3 measuring instrument is state-of-the-art. It is ideally protected from external influences by its robust design and the optionally available TopSafe. And that's not all. During the measurement, optical and audible alarms let you know immediately if the adjustable limit values have been exceeded.

Thanks to the wireless data transfer via IrDA or Bluetooth, you can transfer your measurement results directly to the flue gas analyzer testo 330 or print them out. Your customers enjoy a special service: the results are now presented directly on site. The Auto-off function and a Lithium polymer rechargeable battery ensure that thanks to its long running time, the instrument can be used permanently, and never uses up unnecessary power.

Why do you need the testo 315-3? Because of its conformity to safety standards.

Security of measurement results

In ambient measurements, often only the CO content of the ambient air is measured. However, above a certain concentration, such as that caused by blocked flue gas exhausts, for example, CO₂ is also harmful for humans. In order to eliminate possible dangers, both parameters need to be taken into account.

CO₂ content is a reliable early indicator for poisoning, and therefore an optimum complement to CO measurement. The parallel measurement of both values allows an early and comprehensive statement on dangerous concentrations to be made. And gives you and your customers additional security.

Security thanks to conformity to standards

Instruments must comply with binding standards. In particular the European Standard 50543, which prescribes strict requirements regarding technology and design for instruments for the measurement of ambient air. This applies in Spain from 2013, and in 2014 at the latest, all other countries of the European Union must have carried the EN 50543 standard over into national law. Thanks to the technology used, the testo 315-3 is already absolutely compliant with this norm, and also conforms to British Standard BS 6173:2009.

EN 50543

The standard applies to the design, testing and operative behaviour of measuring instruments which are operated in private households or in commercially or industrially used buildings.

BS 6173:2009

British Standard recommends regular CO/CO₂ measurements in gastronomic kitchens, especially on gas-burning stoves.

The parallel measurement function makes the testo 315-3 more effective than before. This convinces even large European energy suppliers. Many, for example, allow only instruments with parallel CO/CO₂ measurement function, and for this reason specifically recommend the testo 315-3 to their partners. Without norm-compliant instruments with parallel measurement function, the partners are no longer capable of doing business.

Security for high customer demands



Your customers require first class service. You can offer this with an above-average measuring instrument such as the testo 315-3. This not only impresses your customers, it also puts you a step ahead of the competition.

A testo 315-3 is a worthwhile investment. Your customers obtain important and exactly measured CO and CO₂ values, and you can work with an instrument which also offers you many advantages: precise, fast and convenient measurements.



What can you order? The instrument and many extras.

testo 315-3, mobile CO/CO₂ measuring instrument optionally available with Bluetooth. Accessories can be ordered at any time.

	Order no.	
	testo 315-3 without Bluetooth (incl. USB mains unit and cable)	0632 3153
	testo 315-3 with Bluetooth (incl. USB mains unit and cable)	0632 3154
	Temperature/humidity module Ø 25 mm, plug-in	0636 9725
	TopSafe protects from impact and dirt (incl. 2 attachment magnets)	0516 0223
	Case (without contents)	0516 0191
	Mobile printer Testo fast printer IrDA with wireless infrared interface	0554 0549
	Bluetooth® printer incl. mains unit	0554 0553
	Spare thermal paper for printer (6 rolls), permanent	0554 0568
	Control and calibration set for humidity sensors (11.3 %RH and 75.3 %RH)	0554 0660
	USB mains unit incl. cable	0554 1105

Technical data

General technical data

Storage/transport conditions	-20 to +60 °C / 0 to 95 %RH -4 to +140 °F
Operating conditions	0 to +40 °C / 0 to 95 %RH +32 to +104 °F
Protection class	IP 40 acc. to EN 60529
Rech. batt.	Lithium polymer rechargeable battery
Recharg. battery life	10 h measurement time (at +20 °C/+68 °F) / mains operation possible
Battery charging	In instrument via mains unit
Interface	IrDA-interface/ optional: Bluetooth
Permit	According to EN 50543
Warranty	Instrument: 24 months Rech. batt.: 12 months CO sensor: 12 months CO ₂ sensor: 12 months Warranty conditions see website: www.testo.com/warranty
EC Guideline	2004/108/EG

Sensor types

Measuring range	CO: 0 to 100 ppm CO ₂ : 0 to 10000 ppm Humidity: 5 to 95 %RH Temperature: -10 to +60 °C +14 to +140 °F
Accuracy	CO: ±3 ppm (0 to 20 ppm) ±5 ppm (>0 ppm) CO ₂ : ±300 ppm (0 to 4,000 ppm) ±8 % of m. v. (4,000 to 6,000 ppm) ±500 ppm (6,000 to 10,000 ppm) Humidity: ±2.5 %RH (5 to 95 %RH) Temperature: ±0.5 °C (±1 digit)
Resolution	CO: 0.5 ppm CO ₂ : 10 ppm Humidity: 0.1 %RH Temperature: 0.1 °C/°F
Response time	CO / CO ₂ : <120 s (t ₉₀)