

We measure it.



# CO warning instruments and gas spillage detectors

For safety & service

- testo 315-1
- testo 315-2
- testo 317-3
- testo 317-1



# Versatile CO measurement – For safety and service

**testo 315-1**

CO warning and servicing instrument for gas heating systems, with battery and calibration protocol



Part no. 0632 0315

testo 315-1 provides you with all the measurement functions needed to service gas heating systems. While measuring draught, pressure difference or temperature, the instrument can also simultaneously show the CO level in ambient air. In this way, you always have the system's safety under your watchful eye.

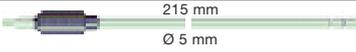
- Reliable CO warning
- Three alarm thresholds are freely adjustable
- Audible and visual alarm
- Automatic zero point adjustment
- Two temperature sockets to compare flow and return temperature
- Compensation of deviations in readings due to temperature
- TopSafe case protects from dirt, water and impact (optional)

Sensor types	ppm CO	hPa	hPa	°C	µA
Meas. range	0 to +2.000 ppm CO	-200 to +200 hPa	-40 to +40 hPa	-40 to +600 °C	-100 to +100 µA
Accuracy ±1 digit	±10 ppm CO (0 to +100 ppm CO) ±10% of mv (+100 to +2000 ppm CO)	±0.5 hPa (-49.9 to +49.9 hPa) ±1.5 hPa (-200 to -50 hPa) ±1.5 hPa (+50 to +200 hPa)	±1.5% of mv (-40 to -3 hPa) ±1.5% of mv (+3 to +40 hPa) ±0.03 hPa (-2.99 to +2.99 hPa)	±0.5 °C (0 to +99 °C) ±0.5% of mv (+100 to +600 °C)	±3 µA
Resolution	1 ppm CO	0.1 hPa	0.01 hPa	0.1 °C	1 µA

**General technical data**

Storage temp.	-20 to +50 °C	Weight	400 g
Oper. temp.	+5 to +45 °C	Dimensions	215 x 68 x 47 mm
Display	LCD, 2 lines	Material/Housing	ABS
Battery type	9V block battery	Warranty	Measuring instrument: 2 years Warranty conditions see internet page <a href="http://www.testo.com/warranty">www.testo.com/warranty</a>
Battery life	16 h		

**Accessories**

Probes testo 315-1	Dimensions Probe shaft/probe shaft tip	Measuring range	Genauigkeit	t <sub>99</sub>	Part no.
Pressure set with flue draught probe consisting of:	 215 mm Ø 5 mm				0554 3150
Pipe wrap probe with velcro strip; for temperature measurement on pipes with diameter up to max. 120 mm; Tmax. +120 °C; TC Type K, Fixed cable	 395 mm 20 mm	-50 to +120 °C	Class 1	90 s	0628 0020
Pipe wrap probe for pipe diameter 5 to 65 mm, with exchangeable measuring head. Meas. range short-term to +280°C, TC Type K, Fixed cable		-60 to +130 °C	Class 2*	5 s	0602 4592

# CO warning instrument

## testo 315-2

testo 315-2 CO warning instrument, incl. battery and calibration protocol

Part no. 0632 0317



Use testo 315-2 to check the CO level in ambient air. Even low concentrations of the highly poisonous gas are detected. In this way, you can judge whether the burner flue gases are being fully drawn off.

- Safe CO warning
- Adjustable alarm thresholds
- Audible & optical alarm
- Automatic zero-point adjustment
- Data documentation on site with the fast printer (option)
- TopSafe cover protects from dirt, water and impact (option)

Sensor type	ppm CO
Meas. range	0 to +2.000 ppm CO
Accuracy $\pm 1$ digit	$\pm 10$ ppm CO (0 to +100 ppm CO) $\pm 10\%$ of mv (+100 to +2.000 ppm CO)
Resolution	1 ppm CO

### General technical data

Alarm limits	50/100/500 ppm (Factory setting)
Zero point adjustment	Automatically when switched on
Oper. temp.	+5 to +45 °C
Storage temp.	-20 to +50 °C
Display	LCD, 2 lines
Battery type	9V block battery

Weight	400 g
Dimensions	215 x 68 x 47 mm
Material/Housing	ABS
Warranty	Measuring instrument: 2 years Warranty conditions see internet page <a href="http://www.testo.com/warranty">www.testo.com/warranty</a>

### Accessories testo 315-1 / testo 315-2

Part no.

#### Accessories and spare parts

9V rech. battery for instrument, instead of battery	0515 0025	
Recharger for 9V rechargeable battery, for external recharging of 0515 0025 battery	0554 0025	
Spare particle filter testo 325-1, 10 off; for CO flue gas probe, for CO flue gas probe	0554 0040	

#### Transport and Protection

testo 312 / testo 315 TopSafe; protection case with bench stand; protects instrument from dirt and impact	0516 0443	
testo 312 Case for secure storage of measuring instrument, for secure storage of measuring instrument	0516 0191	
Transport case; plastic; for transport and secure storage of measuring instrument and accessories	0516 3120	

#### Printer and Accessories

Testo fast printer IRDA with wireless infrared interface; 1 roll thermal paper; 4 AA batteries; for printing out measurements on site	0554 0549	
External fast charger for 1-4 AA rech. batteries, incl. 4 Ni-MH rech. batteries with individual cell charging and charge control display, incl. impulse trickle charging, integrated discharge function, with built-in international mains plug, 100-240 V, 300 mA, 50/60 Hz	0554 0610	
Spare thermal paper for printer (6 rolls), permanent ink, measurement data documentation legible for up to 10 years	0554 0568	

#### Calibration Certificates

ISO calibration certificate/flue gas, calibration points 2.5% O <sub>2</sub> ; 100 and 1000 ppm CO; 800 ppm NO; 80 ppm NO <sub>2</sub> ; 1000 ppm SO <sub>2</sub>	0520 0003	
ISO calibration certificate/CO, CO probes; calibration points 0; 80 ppm	0520 0039	

## Ambient carbon monoxide warning

### testo 317-3

testo 317-3, testo 317-3 CO monitor, incl. carrying case with belt clip, headphones, wrist strap, sampler and calibration protocol

Part no. 0632 3173



The testo 317-3 CO monitor detects the presence of carbon monoxide in the surrounding area and warns the user both visually and audibly about dangerous gas concentrations e.g. when installing and servicing gas heaters.

- 3 year warranty on CO sensor
- No zero phase, instrument can be used immediately
- Adjustable alarm threshold
- CO zeroing at site

#### General technical data

Meas. range	0 to +1999 ppm
Accuracy $\pm 1$ digit	$\pm 10$ ppm (0 to +99 ppm) $\pm 10$ % (+100 to +499 ppm) $\pm 20$ % (>+500 ppm)
Resolution	1 ppm
Oper. temp.	-5 to +45°C

Battery type	2 batteries Type AAA
Battery life	150 h (with beeper switched off)
Reaction time	40 s
Warranty	2 years on the instrument 3 years on the CO sensor

## Flue gas spillage detector

### testo 317-1

testo 317-1 spillage detector with flexible probe, incl. battery

Part no. 0632 3170



The testo 317-1 flue gas spillage detector reliably detects escaping heating gases. The practical instrument immediately gives off a visual and audible alarm. It is therefore not necessary to actually see the detector. The bendable probe facilitates applications in confined areas.

- Reliable recognition of escaping flue gases
- Bendable measurement probe for points which are difficult to access
- Audible and visual alarm

#### General technical data

Measuring medium	Ambient air
Reaction time	2 s
Display	Visual/audible
Battery type	3 AAA micro batteries

Weight	300 g
Dimensions	128 x 46 x 18 mm
Diameter/Probe pipe tip	$\varnothing$ 10 mm
Length of probe pipe tip	35 mm
Length of probe pipe	200 mm
Warranty	Measuring instrument: 2 years Warranty conditions see internet page <a href="http://www.testo.com/warranty">www.testo.com/warranty</a>