Data sheet

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Gas leak detectors

For a quick overview

testo 317-2 testo 316-1 testo 316-2 testo gas detector testo 316-Ex



Gas leak testing

Over and over again, devastating explosions and fires are caused by leaky gas pipelines. However, even smaller leaks in the gas pipelines, some of which cannot be detected by odour, lead directly to higher consumption and, in the long run, increase the risk of accidents.

How do leaks occur?

Leaks can be caused, for example, by hairline cracks (cracks which are hardly identifiable with the naked eye) in the pipelines. The often used hemp sealant can also, after many years of use, become leaky.

Fast testing

Thanks to technological developments, it is today possible to use a test instrument to carry out a gas pipeline test (leak quantity test) in a very short time. If a leak is determined, the site of the gas leak can be identified very quickly and reliably with the help of the gas leak detector.



Overview Testo gas leak detectors

Measuring instrument	testo 317-2	testo 316-1	testo 316-2	testo gas detector	testo 316-EX	
	The convenient gas leak detector for beginners	The detector for leaks in natural gas pipes	The gas leak detector with integrated pump for fast check measurements	Gas detector	Gas detector with EX-protection	
Measuring range						
Methane	100 to 20.000 ppm CH ₄	100 to 10,000 ppm CH ₄	10 ppm to 4,0 Vol. % CH ₄	10 to 999 ppm CH ₄ 0,1 to 4,4 Vol. % CH ₄	1 ppm to 2.5 Vol. % CH ₄	
Propane	50 to 10.000 C ₃ H ₈	_	10 ppm to 1,9 Vol. % C ₃ H ₈	10 to 999 ppm C ₃ H ₈ 0,1 to 1,9 Vol. % C ₃ H ₈	1 ppm to 1.0 Vol. % C ₃ H ₈	
Hydrogen		_	10 ppm to 4,0 Vol. % H ₂	10 to 999 ppm H ₂ 0,1 to 4,0 Vol. % H ₂	1 ppm to 2.0 Vol. % H ₂	
Lower response thresholds	100 ppm CH ₄ 50 C ₃ H ₈	100 ppm	10 ppm	10 ppm	-	
1st alarm limit	10.000 ppm CH ₄ 5000 C ₃ H ₈ (20% LEL)	from 200 ppm CH ₄ (LED yellow)	200 ppm CH ₄ 100 ppm C ₃ H ₈ 200 ppm H ₂	-	-	
2nd alarm limit	-	from 10.000 ppm CH ₄ (LED red)	10.000 ppm CH ₄ 5.000 ppm C ₃ H ₈ 10.000 ppm H ₂	-	-	
Resolution	_	_	_	1 ppm / 0,1 Vol. %	1 ppm / 0,1 Vol. %	
Display	8 segment trend display	LED (3 colour)	18 segment bar display	ppm display	-	
Battery life	4 h (LR03)	> 5 h	6 h	> 8 h	to 10 h	
Other features	audible signal	Semi-conductor sensor	Earphone socket	extendable probe Inherently safe sensor according to DMT	Protection class IP54 EU guideline 94/9/EG (ATEX) 2004/108/EG EX-protection II 2G EEx ib IIC T1 (Ex Zone 1)	



The detector for leaks in natural gas pipes

testo 316-1

testo 316-1 electronic gas leak detector with flexible probe and battery

Part no. 0632 0316



The testo 316-1 gas leak detector quickly detects even the smallest leaks.

- Flexible measurement probe for inaccessible pipes
- TopSafe case protects from dirt and impact (optional)
- Audible alarm if limit value is exceeded
- Optical alarm

Sensor types

	Methane
Measuring range	100 to 10,000 ppm CH ₄
Lower response thresholds	100 ppm
1st alarm limit	from 200 ppm CH ₄ (LED yellow)
2nd alarm limit	from 10.000 ppm CH ₄ (LED red)

General technical data

Storage temperature	-20 to +50 °C	
Operating temperature	+4 to +45 °C	
Oper. humidity	0 to 95 %RH	
Battery type	9V block battery	
Battery life	> 5 h	
Weight	Approx. 300 g	
Dimensions	190 x 57 x 42 mm (without sensors)	

Display	LED (3 colour)
t90	< 5 s
Heat-up time	< 30 s
Other features	Semi-conductor sensor

Accessories Part no.

Accessories for measuring instrument testo 316-1

testo 316-1 TopSafe; protection case, incl. stand, protects from dirt and impact	0516 0189	
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