

We measure it.



Electronic leakage detector for refrigerants

**testo 316-3 – Find any leak
reliably**

High sensitivity $< 4 \text{ g/a}$ allows the detection of the smallest leaks

Detects all common refrigerants

Easiest possible operation thanks to a single button

Immediate readiness with no pre-settings

LED indicator of leakage with simultaneous audible alarm



testo 316-3 is a reliable leakage detector for refrigerants which should be a part of every professional's refrigeration technology equipment. It detects even the smallest leaks thanks to its high level of sensitivity of 4 g/a , and fulfils the requirements of the F-gas regulation as well as the standards SAE J1627 and EN14624:2012.

The instrument is ready for use immediately after switching on, without the need for selecting a characteristic curve. Thanks to the automatic zeroing, the testo 316-3 detects leaks even in rooms which have already been contaminated.

Technical data / Accessories

testo 316-3

testo 316-3, leakage detector for CFC, HFC, HCFC incl. sensor head, transport case, calibration protocol, batteries and filter

Part no. 0563 3163



Techn. data sensor

Meas. parameter	g/a
Sensitivity	4 g/a (0.15 oz/a)

General technical data

Detectable refrigerants	R-22, R134a, R-404A, R-410A, R-507, R438A and all CFCs, HFCs, and HCFCs
Conformities	SAE J1627, EN 14624:2012, EG 2004/108/EG
Oper. temp.	-20 to +50 °C
Oper. humidity	20 to 80 %RH
Storage temp.	0 to +50 °C
Battery type	2 x D
Battery life	16h permanent operation
Sensor lifetime	Approx. 80 to 100 h (corresponds to approx. 1 year)
Weight	Approx. 500 g (incl. batteries)
Warranty	Measuring instrument: 1 year

Accessories for measuring instrument

Part no.

Sensor head for the testo 316-3	0554 2610	
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Leak detection set for refrigerants

testo 316-4

Very high sensitivity of $\leq 3\text{g/a}$ allows the detection of the smallest leaks

Very long sensor life

Optical and audible alarm for optimum leakage detection

Permanent sensor check for fast and safe work

Earphone connection for secure leakage detection in loud surroundings

Trend display shows maximum leakages



The testo 316-4 (Set 1) is a fast and reliable leakage detector for all common refrigerants. The sensor is permanently monitored and shows malfunctions or contamination in the display. The use of test leaks is thus superfluous. If dirty, the sensor can simply be cleaned, and is immediately ready for use again.

The very high level of sensitivity of $\leq 3\text{g/a}$ according to EN 14624 allows the detection of the smallest leakages. The display changes from green to red when leaks occur. An audible signal additionally indicates detected leakages. With the earphone, testo 316 can also be used in loud surroundings.

The trend display shows maximum leakages and facilitates the localization of leaks. The flexible gooseneck allows the optimum positioning of the sensor close to the pipe or other measurement site.

For refrigeration systems which operate with ammonia, there is the testo 316-4 (Set 2) specially for ammonia, or the replacement ammonia head (NH3) for the testo 316-4 (Set 1).

Technical data / Accessories

testo 316-4 Set 1

Set for leak detection on refrigeration systems for CFC, HCFC, HFC, H₂ accessories: testo 316-4, case, mains unit and earphones

Part no. 0563 3164



testo 316-4 Set 2

Set for leak detection on refrigeration systems for NH₃ accessories: testo 316-4, case, mains unit and earphones

Part no. 0563 3165



Detectable refrigerants

Refrigerants Refrigerants group	Reference refrigerant (Lower response threshold specified)	Refrigerant detectable	Refrigerant selection in instrument
CFC		x	R22
H-CFC		x	R22
H-HFC		x	R404a
R12		x	R22
R22	x	x	R22
R123		x	R22
R134a	x	x	R134a
R404	x	x	R404a
R407a, b, c, d, e		x	R134a
R408		x	R22
R409		x	R22
R410a		x	R134a
R505		x	R22
R507		x	R134a
R600/R600a		x	R22
Hydrogen	x	x	H ₂
Ammonia	x	x	NH ₃
R410a		x	R134a
R124		x	R22
R227		x	R134a
R422d		x	R134a
R11		x	R22
R290		x	H ₂
R508		x	R134a
R427a		x	R404a
R1270		x	R22
R1150		x	R22
R170		x	R134a

Techn. data sensor

Meas. parameter	g/a
Detectable	R134a, R22, R404a, H ₂ and all common refrigerants such as CFC, HCFC, HFC NH ₃ (separate sensor head)
Lower reaction threshold	3 g/a

General technical data

Reaction time	<1 s
Leakage alarm	optical and audible alarm
Complies with:	1g/year sensitivity acc. to EN 14624 and E 35-422
Length of gooseneck	370 mm
Start-up time	<50 s (0 to +50 °C) <80 s (-20 to 0 °C)
Oper. temp.	-20 to +50 °C
Oper. humidity	20 to 80 %RH
Storage temp.	-25 to +70 °C
Power supply	1 battery block (6 cells NiMH)
Battery life	6 h (Continuous operation)
Dimensions	190 x 57 x 42 mm
Weight	348 g
Warranty	12 months (instrument and sensor)

Accessories

Part no.

Accessories for measuring instrument

Spare head for refrigerants (CFC, HCFC, HFC, H ₂)	0554 3180	
Spare head for ammonia (NH ₃)	0554 3181	