Data sheet
testo 316-4

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Leak detection set for refrigerants

testo 316-4

g/a

- Very high sensitivity of < 3g/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 < 3g/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).

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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 NH_3 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)
Operating temperature	-20 to +50 °C
Oper. humidity	20 to 80 %RH
Storage temperature	-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

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	

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