

Leak detection set for refrigerants

testo 316-4

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).



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

(Lower response threshold specified) CFC	Refrigerants	Reference	Refrigerant	Refrigerant
threshold specified) CFC X R22 H-CFC X R404a R12 X R22 R22 R22 X R22 R22 R2	Refrigerants group	refrigerant (Lower response threshold specified)	detectable	selection
H-CFC				in instrument
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 R2 Ammonia x x R134a R10a x R134a R124 R124 x R22 R227 x R134a R11 x R22 R290 x R134a R11 x R22 R508 x R134a R427a x R404a	CFC		Х	R22
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 H2 Ammonia x x R134a R10a x R134a R124 R124 x R22 R227 x R134a R11 x R22 R220 x R134a R11 x R22 R290 x R134a R427a x R404a R1270 x R22	H-CFC		Х	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 R2 Ammonia x x NH3 R410a x R134a R124 x R22 R227 x R134a R124 x R22 R227 x R134a R11 x R22 R290 x H2 R508 x R134a R427a x R404a R127 x R22	H-HFC		X	R404a
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 H2 Ammonia x x R134a R10a x R134a R124 R124 x R22 R227 x R134a R410a x R134a R422d x R134a R422d x R134a R11 x R22 R290 x H2 R508 x R134a R427a x R404a R1270 x R22	R12		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 H2 Ammonia x x R134a R10a x R134a R124 R124 x R22 R227 x R134a R134a R42d x R134a R11 x R22 R290 x H2 R508 x R134a R427a x R404a R1270 x R22 R150 x R22	R22	Х	Х	R22
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 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 R424a R1270 x R22 R150 x R22	R123		X	R22
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 H2 Ammonia x x NHa R410a x R134a R124 x R22 R227 x R134a R422d x R134a R11 x R22 R290 x H2 R508 x R134a R427a x R404a R1270 x R22 R150 x R22	R134a	Х	Х	R134a
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R505 x R22 R507 x R134a R600/R600a x R22 Hydrogen x x H2 Ammonia x x NH3 R410a x R134a R124 x R22 R227 x R134a R422d x R134a R11 x R22 R290 x H2 R508 x R134a R427a x R404a R1270 x R22 R150 x R22	R409		X	R22
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Hydrogen x x H₂ Ammonia x x NH₃ R410a x R134a R124 x R22 R227 x R134a R422d x R134a R11 x R22 R290 x H₂ R508 x R134a R427a x R404a R1270 x R22 R1150 x R22	R507		Х	R134a
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	R600/R600a		X	R22
R410a x R134a R124 x R22 R227 x R134a R422d x R134a R11 x R22 R290 x H2 R508 x R134a R427a x R404a R1270 x R22 R1150 x R22	Hydrogen	Х	Х	H ₂
R124 X R22 R227 X R134a R422d X R134a R11 X R22 R290 X H2 R508 X R134a R427a X R404a R1270 X R22 R1150 X R22	Ammonia	Х	Х	NH₃
R227 x R134a R422d x R134a R11 x R22 R290 x H2 R508 x R134a R427a x R404a R1270 x R22 R1150 x R22	R410a		X	R134a
R422d x R134a R11 x R22 R290 x H2 R508 x R134a R427a x R404a R1270 x R22 R1150 x R22	R124		Х	R22
R11 x R22 R290 x H2 R508 x R134a R427a x R404a R1270 x R22 R1150 x R22	R227		Х	R134a
R290 x H₂ R508 x R134a R427a x R404a R1270 x R22 R1150 x R22	R422d		Х	R134a
R508 x R134a R427a x R404a R1270 x R22 R1150 x R22	R11		Х	R22
R427a x R404a R1270 x R22 R1150 x R22	R290		X	H ₂
R1270 x R22 R1150 x R22	R508		Х	R134a
R1150 x R22	R427a		Х	R404a
	R1270		Х	R22
R170 x R134a	R1150		Х	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	24 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	

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