

# Leak detection set for refrigerants

testo 316-4

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Very high sensitivity of < 3g/a allows the detection of the smallest leaks

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Very long sensor life

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Optical and audible alarm for optimum leakage detection

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Permanent sensor check for fast and safe work

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Earphone connection for secure leakage detection in loud surroundings

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Trend display shows maximum leakages

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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

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

Part no. 0563 3165



| Detectable refrigerants            |   |                           |   |
|------------------------------------|---|---------------------------|---|
| Refrigerants<br>Refrigerants group | Reference<br>refrigerant<br><small>(Lower response<br/>threshold specified)</small> | Refrigerant<br>detectable | Refrigerant<br>selection<br>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 <sub>2</sub>                            |
| Ammonia                            | x   | x                         | NH <sub>3</sub>                           |
| R410a                              |   | x                         | R134a                                     |
| R124                               |   | x                         | R22                                       |
| R227                               |   | x                         | R134a                                     |
| R422d                              |   | x                         | R134a                                     |
| R11                                |   | x                         | R22                                       |
| R290                               |   | x                         | H <sub>2</sub>                            |
| 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 <sub>2</sub> and all common refrigerants such as CFC, HCFC, HFC NH <sub>3</sub> (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)<br>< 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   |
| Warranty               | 24 months (instrument and sensor)                 |

| Accessories   | Part no.  |  |
|---|-----------|--|
| <b>Accessories for measuring instrument</b>                   |           |  |
| Spare head for refrigerants (CFC, HCFC, HFC, H <sub>2</sub> ) | 0554 3180 |  |
| Spare head for ammonia (NH <sub>3</sub> )                     | 0554 3181 |  |

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Subject to change without notice.