

# DF 110

## Detector of refrigerant gases and hydrogen (H<sub>2</sub>)

### KEY POINTS

- Detection of all the HCFC and HFC refrigerants
- Detection of mixtures 5% hydrogen - 95% nitrogen (Nidron 5...)
- Heated diode sensor
- 3 modes of sensitivity (high, low and normal)
- Manual and automatic autozero

### TECHNICAL FEATURES

<b>Detected gases</b>	HFC : R134a, R404a, R407c, R410a, R32, R422a/b/c/d, R425a, R507a, R125 HCFC : R22 CFC : R12 et R502 Others : H <sub>2</sub> , R290, R600a, HFO-1234yf
<b>Measuring element</b>	Semi-conductor sensor
<b>Display</b>	13 leds : - 8 for the graphic visualization of thresholds - 3 for the sensitivity of detection - 2 for the battery level and manual autozero
<b>Indication</b>	LED : gradual lighting up when the gas concentration increases Audible : the beep frequency increases when the gas concentration increases
<b>Probe</b>	Flexible, 300 mm length
<b>Autonomy</b>	> 12 hours
<b>Housing</b>	Anti-choc ABS, protection IP54
<b>Keypad</b>	3 keys
<b>European directives</b>	2004/108/EC EMC ; 2006/95/EC Low Voltage ; 2011/65/EU RoHS II ; 2012/19/EU WEEE
<b>Power supply</b>	4 AAA LR03 1.5 V batteries
<b>Ambiance</b>	Neutral gas
<b>Conditions of use (°C, %RH, m)</b>	From 0 to +50 °C. In non condensing conditions. From 0 to 2000 m.
<b>Storage temperature</b>	From -20 to +80 °C
<b>Auto-extinction</b>	15 min
<b>Weight</b>	295 g

### SPECIFICATIONS

Mode	Indicative measuring range (g/an)	Visual alarm
Low sensitivity ("B" on the device)	From 0 to 300 g/an	All the leds (8) for 300 g/an
Normal sensitivity ("Norm" on the device)	From 0 to 30 g/an	All the leds (8) for 30 g/an
High sensitivity ("H" on the device)	From 0 to 3 g/an	All the leds (8) for 3 g/an

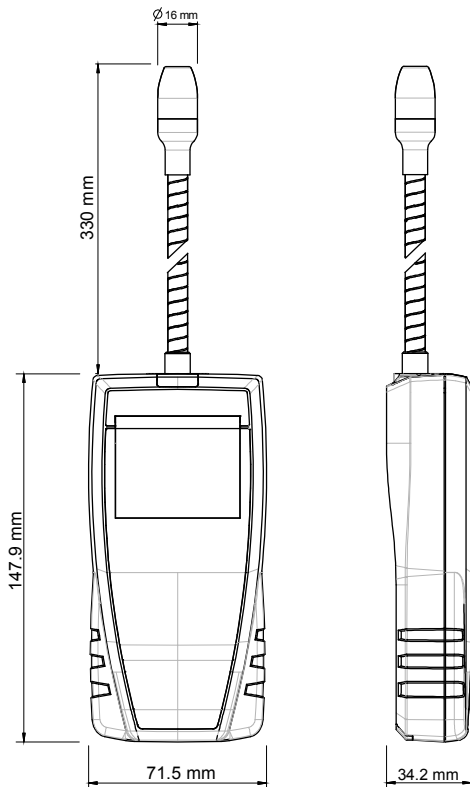


### REGLEMENTATIONS

The refrigerant gas detector complied with the EN 14624 standard that determines the following points :

- **Minimum threshold of sensitivity :**  
Fixed : < 1 g / year at 3 mm  
In moving air : 2 g / year,  
2 cm / s at 3 mm
- **Minimum time of detection (1 g / year) :** 1 second
- **Autozero :** 2 seconds
- **Recuperation time after exposition :** from 1 to 10 seconds (depending on detection level and threshold of sensitivity)

## SIZE



## MAINTENANCE

We realise the check, adjustment and maintenance of your devices to guarantee a constant quality level of your measurements. According to the quality assurances standards, we recommend a yearly checking.

We recommend to check regularly that the nozzle of the detector and its filter are clean in order to guarantee the performances of the device.

## WARRANTY

Instruments have 1-year guarantee for any manufacturing defect (return to our After-Sales Service required for appraisal).

## SUPPLIED WITH

Devices are supplied with :

- Verification certificate
- Transport case
- Test sample containing refrigerant gas
- Filter



## ACCESSORIES

**CQD** : Magnetic protective housing



**MT 51** : ABS transport case



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