



DATA SHEET

# DF 110



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



Detection of all the HCFC and HFC refrigerants



Heated diode sensor



Detection of mixtures 5% hydrogen - 95% nitrogen (Nidron 5...)



Manual and automatic autozero

### 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)

The detector is supplied with a verification certificate according to 2007-737 decree.

### Technical specifications

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

## General features

Detected gases	HFC: R134a, R404a, R407c, R410a, R32, R422a/b/c/d, R425a, R507a, R125 HCFC: R22 CFC: R12, R502 Others: H <sub>2</sub> , R290, R600a, HFO-1234yf, HFO-1234ze
Measuring element	Semi-conductor sensor
Display	13 LEDs: 8 for the graphic visualization of thresholds 3 for the sensitivity of detection 2 for the battery level and manual autozero
Indication	LED: gradual lighting up when the gas concentration increases Audible: the beep frequency increases when the gas concentration increases
Probe	Flexible, 300 mm length
Autonomy	> 12 hours
Housing	Anti-choc ABS, protection IP54
Keypad	3 keys
European directives	2014/30/EU EMC; 2014/35/EU Low Voltage; 2011/65/EU RoHS II; 2012/19/EU WEEE
Power supply	4 AAA LR03 1.5 V batteries
Ambiance	Neutral gas
Conditions of use (°C, %RH, m)	From 0 to +50 °C. In non condensing conditions. From 0 to 2000 m.
Storage temperature	From -20 to +80 °C
Auto-extinction	15 min
Weight	295 g

## Warranty

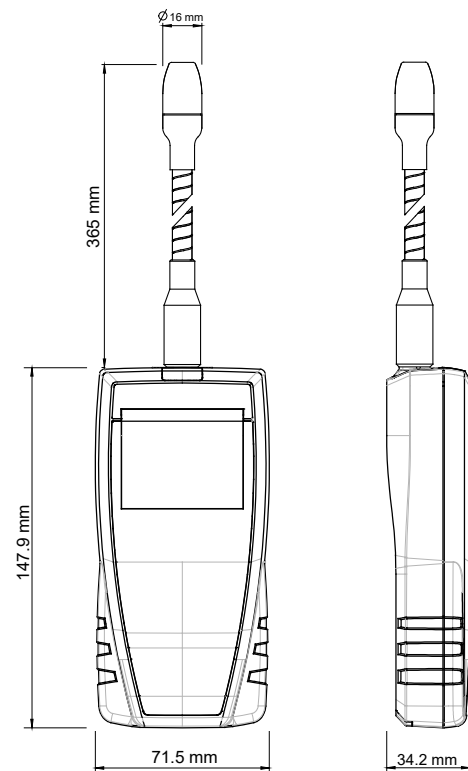
Instruments have 1-year warranty for any manufacturing defect (return to our After-Sales Service required for appraisal).

## 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 that its filter are clean in order to guarantee the performances of the device.

## Dimensions (in mm)



## Kit content

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

## Accessories

Name	Reference
Magnetic protective housing	CQD
ABS transport case	MT 51