



DATA SHEET



DF 110



Detector of refrigerant gases and hydrogen (H₂)



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 ₂ , 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

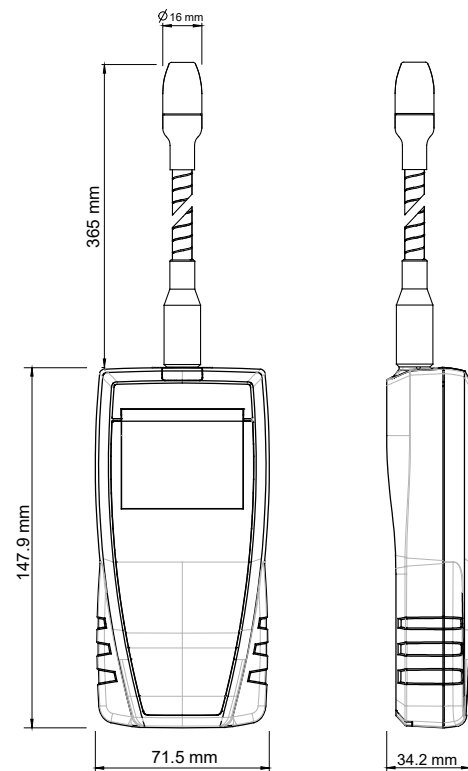
Instruments have 1-year warranty for any manufacturing defect (return to our After-Sales Service required for appraisal).

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
- Leak test sample
- Filter

Accessories

Name	Reference
Magnetic protective housing	CQD
ABS transport case	MT 51