



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 |

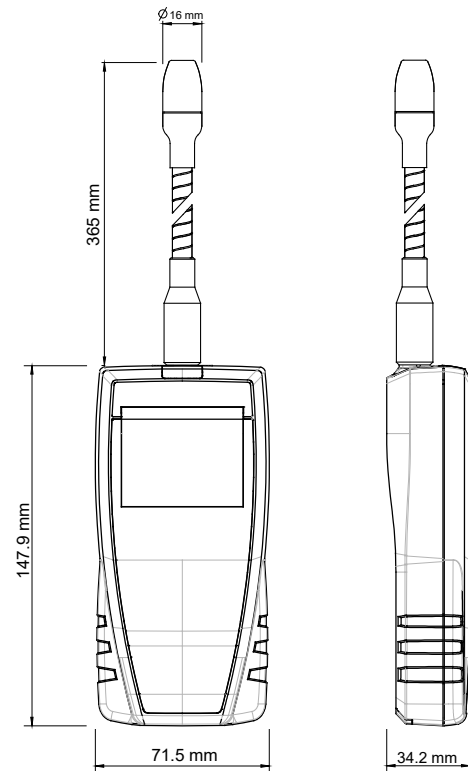
General features

| | |
|-----------------------------------|---|
| 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 |

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 |