



DATA SHEET

# SI-RD3



## Refrigerant leak detector



Detects most common refrigerants and mixtures



Visible and audible alarms



Highly sensitive: 0 – 3 g/year



30 cm flexible probe

### Features

- Detection includes: all HCFC and HFC refrigerants, R1234yf, R1234ze, R290, R600a, and 5% hydrogen - 95% nitrogen mixtures (Nidron 5, Trace-A-Gas)
- Manual and automatic autozero. Immediately ready to use with no presets.
- Heated diode sensor
- 3 modes: Low, Normal and High sensitivity

### Reglementations

The refrigerant gas detector complies 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 ("L" on the device)	From 0 to 300 g/year	All the LEDs (8) for 300 g/year
Normal sensitivity ("M" 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

Main detected refrigerants	HFC: R134a, R404a, R407c, R410a, R32, R422a/b/c/d, R425a, R507a, R125 HCFC: R22 CFC: R12, R502 Others: 5% hydrogen - 95% nitrogen (Nidron 5, Trace-A-Gas), R290, R600a, R1234yf, R1234ze
Measuring element	Semiconductor 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	ABS topsafe, protection IP54
Keypad	3 keys
European directives	2014/30/EU EMC; 2014/35/EU Low Voltage; RoHS 2011/65/EU (EU)2015/863; 2012/19/EU WEEE
Power supply	4 AAA LR03 1.5 V batteries
Ambiance	Air and non-corrosive gases
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 (10.4 oz)

## Warranty

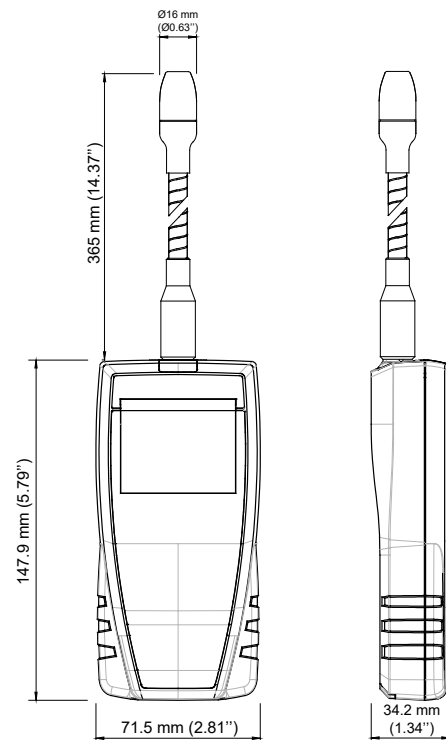
Instruments have 2-year warranty for any manufacturing defect (return to our After-Sales Service required for appraisal).

## 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



## Kit content

- Verification certificate
- Transport case
- Quick Start Guide
- Filter

## Accessories

Name	Reference
Magnetic protective housing	CQ 15
Softcase	SIACCSC