



**I-9102, I-9102R**

## Features and Benefits

1. Built in 8 bit microprocessor
2. Algorithm maps for false alarm rejection
3. Analogue sensing
4. Secure and speedy communication
5. Intelligent Linear Drift compensation
6. Self diagnosis and history log
7. Electronic addressing
8. Sensing chamber for exceptional dust proof ability
9. Twin LED for 360° vision
10. Low profile design

## Description

The I-9102 Optical Smoke Detector is the ideal device for most applications due to its excellent linear response to a wide variety of different types of smoke. The unit meets the sensitivity requirement of EN 54 part 7, European Standard and approved by Loss Prevention Certificate Board (LCPB).

The aesthetically pleasing low profile design and the ease of installation makes the unit ideal for use in a modern building interior. Optimizing of the chamber design minimizes the effect of dust deposits over a period of time.

The latest intelligent processor provides algorithm mapping, built-in A/D converter, intelligent linear drift compensation, self diagnosis and history log.

The integral microprocessor analyses the signal according to factors such as signal strength and rate of increase, the unit then conforms to the pre-programmed fire pattern strategy for faster and accurate detection and a higher degree of false alarm rejection.

Secure and speedy communication through the on board processor the detector enables the unit to make its own decision and is not reliant on the fire panel for detection of a fire condition.

Drift compensation, the sensing element monitors for the long term changes cause by aging, humidity, temperature, dust, etc. constantly monitoring and self adjusting, the I-9101 updates the sensitivity base line for its sensing element. Even when the detector raises a warning that it requires cleaning, the sensitivity remains the same as the day it was installed.

Electronic addressing can be done through Handheld Programming device (P-9910), purchased separately.

I-9102R has an output to drive remote LED indicator.

## Technical Specifications

- Standard: EN54-part7
- Approval: LPCB,UL,CE
- Operating voltage: 24Vdc
- Operating Current:
  - Standby: 0.6mA
  - Alarm: 2mA
- Output for remote indicator: 4.3V, 1mA
- Operating temperature: -10°C to +50°C
- Relative humidity: 95%
- Application: indoor use
- Detecting range: 100 sqm elevated than 6m, 80 sqm less than 6m
- Field Programmable sensitivity: 0.10dB/m to 0.56dB/m – 3 level
- Visual Indicator: twin LED, Red ( lit steady when alarm, 3 sec interval blinking at normal state)
- Enclosure protection rating: IP 32
- Material and colour: ABS, off-white
- Wiring: 1 pair non polarized
- Dimensions: diameter 10cm; height 5cm