

# I-9702LW-LPG

## Addressable Gas Detector



### Description

I-9702LW-LPG Addressable Gas Detector is used to detect leakage of home use liquefied petroleum gas in such areas as houses, hotels and apartments. When leakage is detected, the detector will generate high buzzer alert sound, and provide a dry contact to turn exhaust fan. The addressable detector can be linked into GST fire alarm system to carry out intelligent control.

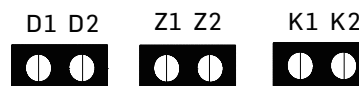
### Features and Benefits

- Electronically addressed
- Local buzzer alarm
- Self-diagnostic
- Relay output
- Easy installation

### Terminals and Installation Holes

Below figure shows terminals on the isolator base.

Terminal description:



D1, D2: 24VDC power supply, non-polarized

Z1, Z2: Addressable loop, non-polarized

K1, K2: 30VDC/3A normally open contact, closes when detector alarms.

Warning:

It's prohibited to connect 220VAC directly through

K1 and K2.

Recommended Cable:

1.0mm<sup>2</sup> or above Fire-resistant cable for Z1 and Z2

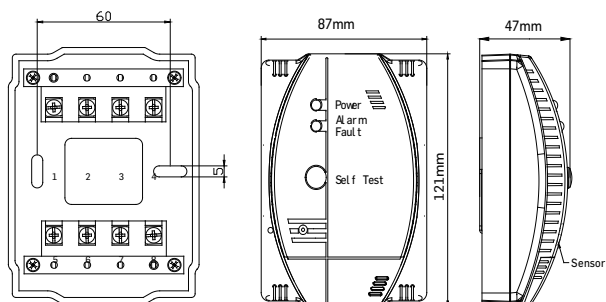
2.5mm<sup>2</sup> or above Fire-resistant cable for D1 and D2

1.0mm<sup>2</sup> or above Fire-resistant cable for K1 and K2

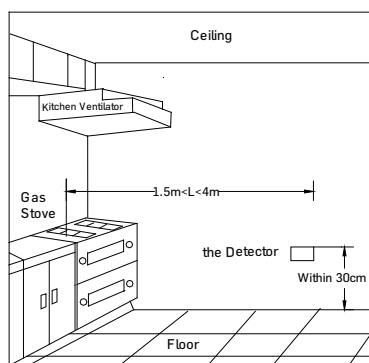
All cables should be subject to local codes.

## Application

The detector is wall mounted type with a bracket.



The detector and the gas stove should be placed in the same room. The detector should be mounted within 30cm -60cm to the floor. The detector should be within 1.5m -4m to the gas resource or the gas stove.



After powered up, the detector will take 4 minutes for warm-up well the green LED flashes, and then it will light constantly for normal monitoring.

If the gas thickness reach alarm threshold to trigger detector alarm, the Alarm/Fault LED flashes red, and the buzzer will sound beep, meanwhile detector will close K1 K2 relay contact, once the gas thickness lower than the alarm threshold, the detector will auto restore to normal state.

Sensor service life expires: The detector will count the usage time of the sensor while it is working. When the accumulated usage time reaches 5 years, the detector will remind the user that the sensor life has expired, and the yellow indicator light will flash Bright. Although the detector still has an alarm function after the life of the sensor expires, it is recommended that the user must replace the detector as soon as possible.

There is a Self-Test button on the detector to test if the LEDs and buzzer works normally. Pressing the Self-Test button, the LEDs flash once in turn, and the buzzer sounds three times. After 10 seconds N/O contact will close, the close status will keep for 5 seconds, then back to normal open status.

## Ordering Information

Part No.	I-9702LW-LPG
Device Name	Addressable Gas Detector
Product No.	1010xxxx

## Technical Specification

Working Voltage	Power: 24VDC (16V~DC28V) non-Polarized Loop: 24V (16V~DC28V) non-Polarized
Power Consumption	Power: Normal state $\leq 0.5W$ Alarm State $\leq 1W$ Loop: Normal state $\leq 1mW$ Alarm State $\leq 2mW$
Output Relay Capacity	N/O, 3A 30VDC
Alarm Threshold	10%LEL(propane)
Indicator	Power LED: Green Alarm/Fault LED: Dual color, red when alarming, and yellow in fault. flash yellow once detector sensor end of life
Buzzer	Sounds twice per second when alarming, and once every 10 seconds in fault.
Life of Sensor	5 Years
Ingress Protection	IP30
Temperature	-10°C ~ +50°C
Relative Humidity	$\leq 95\%$ , non-condensing
Material	ABS
Weight	180g
Mounting Hole Distance	60mm
Dimension(L×W×H)	121mm×87mm×58.5mm

## Caution

- 1.Avoid using much hair tonic, pesticide, paint, alcohol, diluents etc near the detector.
- 2.The detector is only sensitive to LPG.
- 3.Don't install the detector at locations with high temperature (near stoves) or too much oil smoke (near kitchen ventilator).
- 4.The detector should be tested every 6 months.
- 5.The detector can be tested by a lighter. The detector should alarm in about 10 seconds.

## Accessories and Tools



Part No.:	P-9910B
Device name:	Handheld Programmer
Product No.:	10104894