



## I-9602LW-LPG Addressable Gas Detector



Installation and Operation Manual

*Issue 1.04 January 2014*

ERP:30303592

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## I Description

I-9602LW-LPG Addressable Gas Detector (the detector) detects leakage of liquefied petroleum gas in such areas as families, hotels, apartments etc.

## II Connection and Wiring

Terminals of the back cover are shown in Fig. 1.

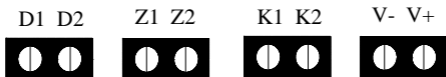


Fig. 1

D1, D2: 24VDC power cable, non-polarized.

Z1, Z2: Loop, non-polarized.

V+, V-: To pipe solenoid valve. When the detector alarms, 3s to 7s later, there is a +12V pulse between V+ and V-.

K1, K2: Normally open passive contact, it is closed when alarming.

**Note: K1, K2 can't be used to control 220VAC devices.**

Wiring:

2.5mm<sup>2</sup> or above fire-resistant copper core cable for D1 and D2 power line.

1.0mm<sup>2</sup> or above fire-resistant cable signal cable

Z1 and Z2, active control cable V+, V-, passive control cable K1, K2.

### III Mounting

The detector is flush-mounted. First draw cables from a hole on the base, then fix the base on the embedded box and connect cables according to terminal instructions and installation and operation manual. Finally install the detector on the base. Mounting is shown in Fig. 2.

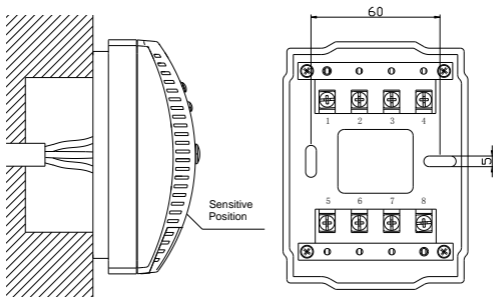


Fig. 2

When the detector is wall-mounted, the mounting position (Fig. 3) should be decided according to the position of stove. But there are still some principles to follow.

- ✧ The detector should be placed in the same room with the stove.
- ✧ The detector should be within 30cm to the floor.
- ✧ The detector should be within 1.5m~4m to gas resource or stove.

**To use the detector correctly and avoid any possible fault, please do not mount the detector at following locations:**

- ✧ **Where directly affected by smoke or vapor from the stove.**
- ✧ **Where near strong airflow, such as air-inlets, fans, doors, etc.**
- ✧ **Where near bathroom or places with a lot of vapor.**
- ✧ **Hot water room and places where power is cut at night.**
- ✧ **Where temperature is below -10°C or over 50°C or outdoors.**
- ✧ **Where explosion-proof measures are required.**
- ✧ **Where the detector is partitioned with the gas devices.**

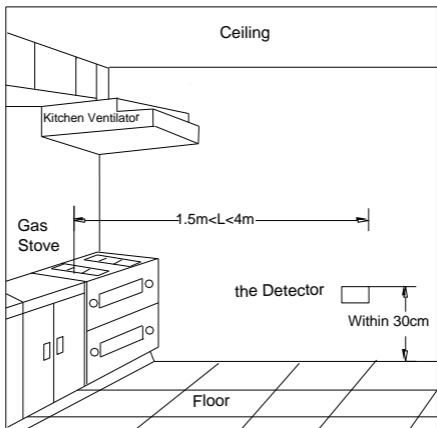


Fig. 3

## IV Application

- 1) After wiring and checking, apply power supply, green LED should flash. After warm-up for 3 to 6 minutes, the detector works normally and lights steadily.
- 2) When the detector is in alarm state, Alarm/Fault LED flashes red and the buzzer

sounds twice every second. When the detector is in fault state, the LED steadily lights yellow and the buzzer sounds once every three seconds.

- 3) The detector has Self-test key, which can check the LED and the buzzer. Press this key, the LEDs flash in turns with three sounds of the buzzer.

## **V Maintenance**

- 1) The detector should be tested half a year at least. Use a gas cigarette lighter to test the detector, the distance should be longer than 10cm. Press the switch, turn out the fire, 10s later, the detector should alarm.
- 2) The life of sensor is 5 years and replaces it when expiration time comes.
- 3) It's normal for the detector to be a bit hot in operation.

## **VI Cautions**

- 1) The detector can just detect that type of gas nominated on the nameplate.
- 2) Don't mount the detector at locations with high temperature (near stoves) or too much smoke (near smoke exhauster); Keep environment around the detector clean.
- 3) We recommend use JJ or FCR series solenoid coming with the detector. If other models are to be used, please consult us.
- 4) Don't cut off the power randomly.
- 5) After having been stored without power, the detector will not work normally until it is powered for a period.



## VII Specification

Power Voltage	24VDC
Loop Voltage	Loop 24V
Normal Standby Consumption	≤0.5W
Alarm Consumption	≤3W
Detecting gas	Liquefied petroleum gas
Alarm Threshold	10%LEL(propane)
Ingress Protection Rating	IP30
Ambient Temperature	-10°C ~ +50°C
Relative Humidity	≤95%, non condensing
Material and Color of the Enclosure	ABS, ivory
Weight	180g (with base)
Dimension (LxWxH)	121mmx87mmx57mm (with base)
Mounting Hole Spacing	60mm

## VIII WEEE Information



2012/19/EU (WEEE directive):  
Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points.

## IX Limited Warranty

**GST** warrants that the product will be free from defects in design, materials and workmanship during the warranty period. This warranty shall not apply to any product that is found to have been improperly installed or used in any way not in accordance with the instructions supplied with the product. Anybody, including the agents, distributors or employees, is not in the position to amend the contents of this warranty. Please contact your local distributor for products not covered by this warranty.



**Gulf Security Technology Co., Ltd.**

No. 80, Changjiang East Road, QETDZ, Qinhuangdao, Hebei,  
P. R. China 066004

Tel: +86 (0) 335 8502434

Fax: +86 (0) 335 8502532

[service.gst@fs.utc.com](mailto:service.gst@fs.utc.com)

[www.gst.com.cn](http://www.gst.com.cn)