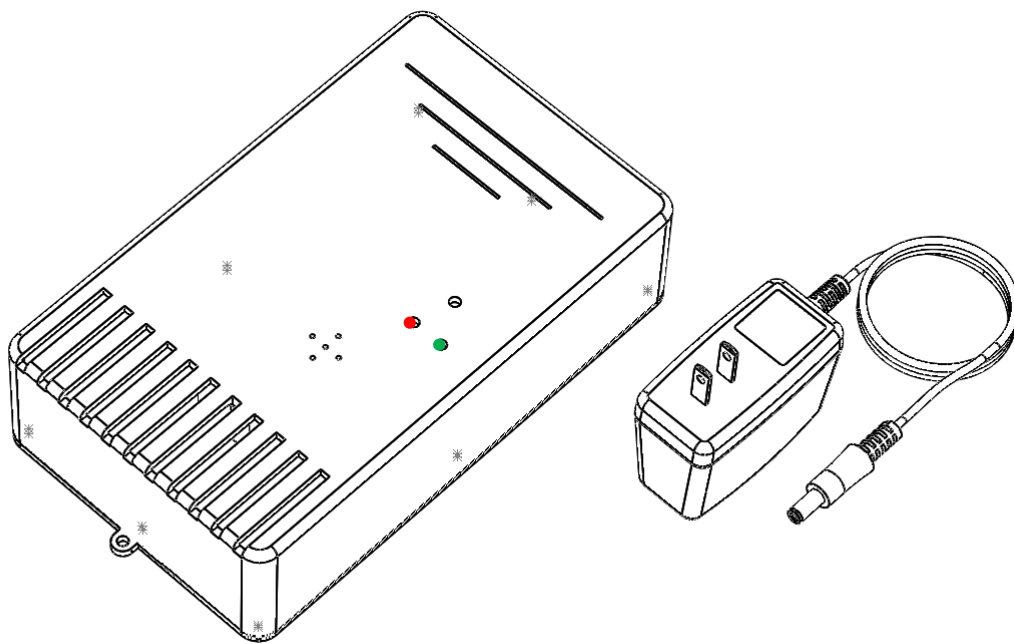


# LPG LEAKAGE DETECTOR

## Instruction Manual



## OVERVIEW

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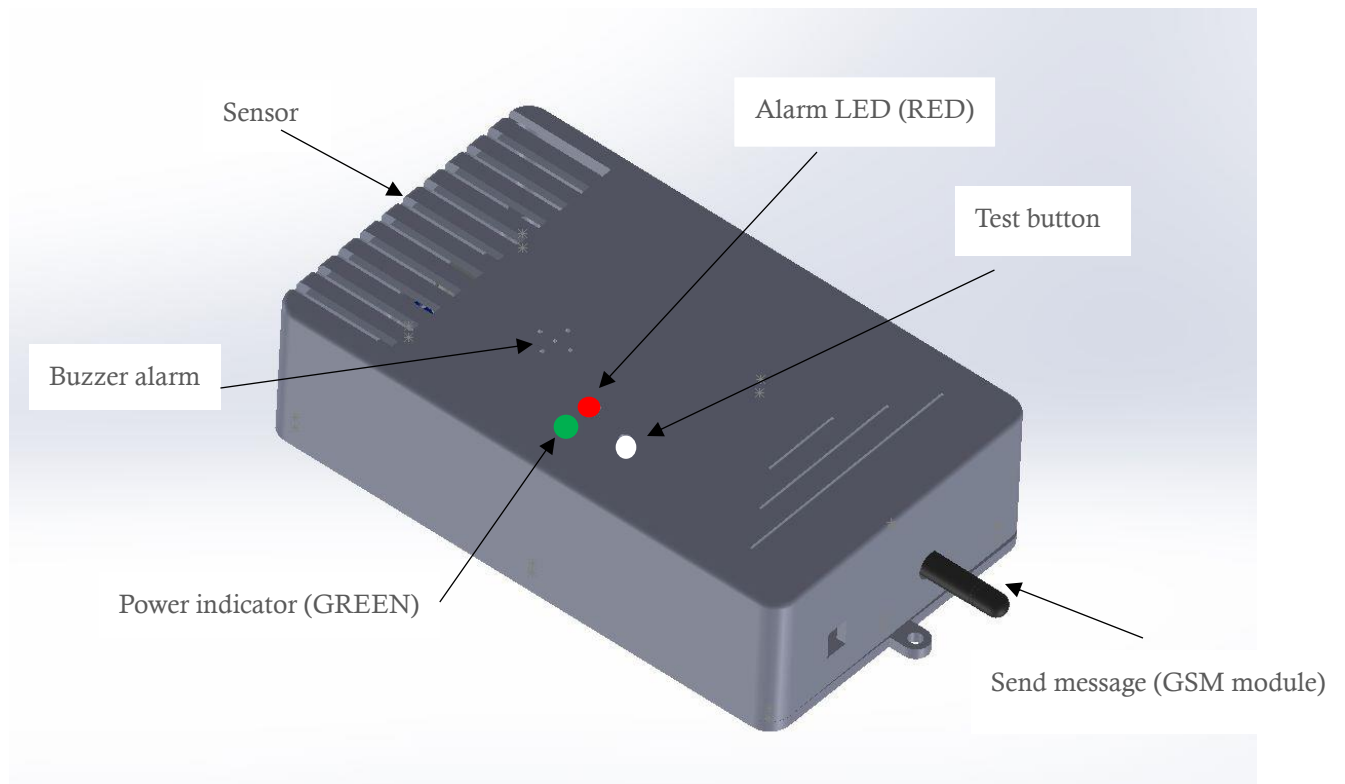
LPG is a primary fuel source, especially in urban areas since it is clean and easy to use compared to firewood. But gas leakage is a severe problem nowadays and it is observed in many places like residences and industries. Many accidents have been reported in Sri Lanka due to gas leakages. In recent days, house fires have occurred frequently, threatening human lives and properties more and more. Domestic gas leaks are commonly caused by badly fitted or repaired regulators, as well as gas tubes that are not replaced on time or are destroyed by pests, and if the user leaves the stove on without turning it on, or by malfunctioning equipment.

Some people can notice the leaks using their sense of smell. However, some people who have a reduced sense of smell may not be able to rely upon this inherent safety mechanism. We should have a proper method to detect gas leaks. A gas leakage detector is very important and helps protect people from the risk of gas leaks.

This device detects LPG gas leakage in households and indicating it to the household by an alarm system and a message. So, whenever there is no one around there, you can notify it through your mobile phone and take the required actions to prevent it.

## PRODUCT ELEMENT

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## TECHNICAL SPESIFICATION

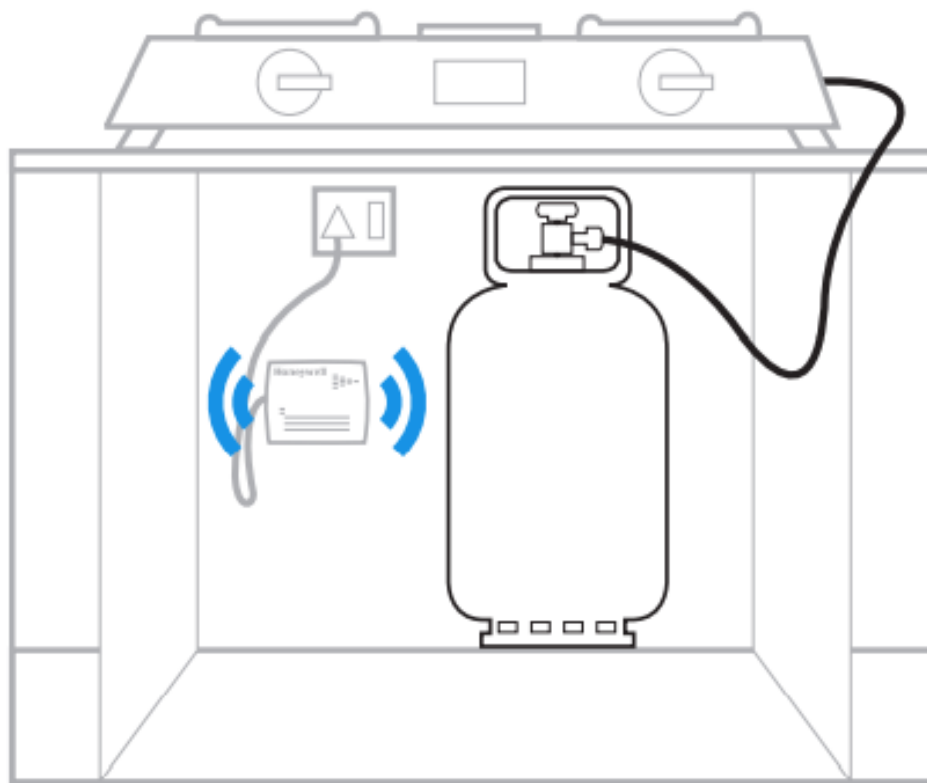
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Power supply	230V
LED indication	Power : Green LED Leakage : Red LED
Alarm type	Audible buzzer alarm
Output	LED indicator Buzzer alarm SMS alert
Dimensions	20x12x5 cm
Operating temperature	-10°C to 70°C

## INSTALLATION PROCEDURE

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### Identifying Place for Gas Leak Detector in the premises



Note: LPG is heavier than air. It has the tendency to settle down. Hence, when you are using LPG cylinder, the Gas Leak Detector must be installed at 30cm height above floor level.

### **Locations to be avoided for installing Gas Leak Detector**

1. Very near to exhaust fan
2. By the side of a door or window
3. Directly above the gas stove
4. Places where water can splash on to the unit
5. In an enclosed space: Many times, the LPG detector is mounted on the wall, behind the LPG cylinder, under the kitchen platform with the door without a grill. This creates a confined space around the detector, and cylinder, regulator and tube connecting it. In such cases, detector effectively detects LPG leaks occurring only in this confined space.

## OPERATION

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### **Sense mode:**

Power on the device. If there is a gas leakage, MQ-6 gas sensor detect the leakage. Then turn on red LED, activate buzzer and send a message to householder.

### **Check for LPG Detector:**

To ensure that the device is working, press the test button. Then the device will react as sense mode.

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