

# GAS LEAKAGE DETECTOR GA-2S

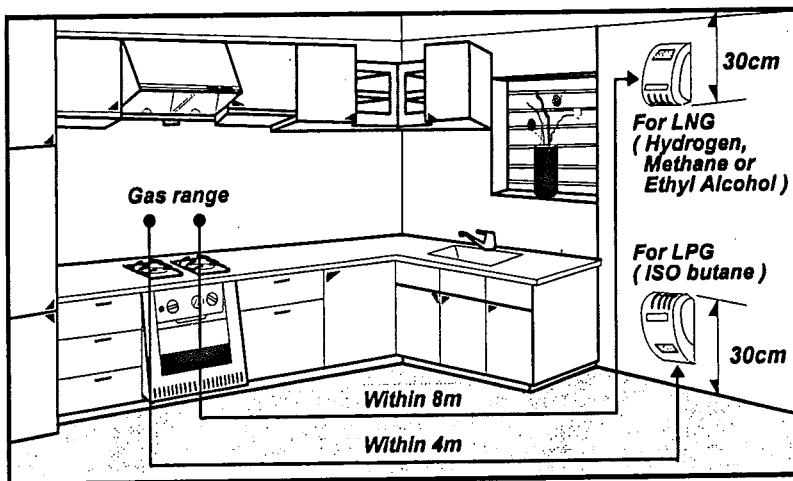
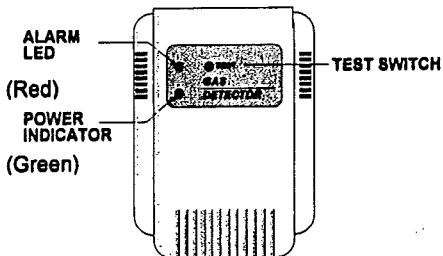
## INTRODUCTION

The GA-2S is a gas detector, it uses electrochemical sensor to detect LNG(Liquefied natural gas) and LPG (Liquefied petroleum gas).

The GA-2S is built in a radio transmitter, it sends check-in signal to LS-30 base unit regularly, and sends alarm signal when it's triggered by LNG or LPG.

## INSTALLATION

1. Put the GA-2S close to LS-30 Base Unit, and plug in the power cord of the GA-2S.
2. Select "Installer Mode" on the LS-30 Base Unit, and enter Installer Password to gain access authority. Then select \Set Device\Enroll Device\Fire Sensor\Enter Zone No. to enroll the ID of GA-2S by pressing its TEST button. You may change its various attributes under \Set Device\Change Device Setting\Fire Sensor Change, to fulfill different requirements. For initial installation, this can be done through computer with supplied software too, it's easier.
3. To detect leakage of natural gas, the detector should be placed at a higher position near the ceiling, because Natural Gas is lighter than air. For LPG, a proper location for detection is about 30cm above the floor, since LPG is heavier than air. Refer to the figure below.



4. After the power of the GA-2S is plugged in, the red LED lights up for 1 minute or so, and then the green LED lights up while the red LED extinguishes. To test the GA-2S, you can put a gas lighter closely to the bottom of the detector, and then leak its gas for about 3 seconds. The GA-2S would beep with the red LED light up. It would trigger "FIRE" alarm of the LS-30 system at the same time.

*Important notice: The GA-2S uses an electrochemical sensor whose life is about 5 years, the user should replace a new GA-2S before its life time expires.*

#### **SPECIFICATIONS:**

Detection: LNG (Liquefied Natural Gas) and LPG (Liquefied Petroleum Gas)

Alarm Sensitivity: 8,000ppm for LNG, 3,300ppm for LPG

Power: 120V or 230V AC as requested.

Power Consumption: max. 2W

Buzzer: built in

Size: 88 x 45 x 123.5 mm

Weight: about 309g



## WARRANTY

The Manufacturer warrants its products (hereinafter referred to as the Product) to be in conformance with its own plans and specifications and to be free of defects in materials and workmanship under normal use and service for a period of twelve months from the date of shipment by the Manufacturer. The Manufacturer's obligations shall be limited within the warranty period. At its option, to repair or replace the Product or and part thereof. To exercise the warranty the Product must be returned to the Manufacturer freight prepaid and insured.

This warranty does not apply in the following cases: improper installation, misuse, failure to follow installation and operating instructions, alteration, abuse, accident or tampering, and repair by anyone other than the manufacturer.

This warranty is exclusive and expressly in lieu of all other warranties, obligations or liabilities, whether written, oral, express or implied, including any warranty of merchantability or fitness for a particular purpose, or otherwise. In no case shall the Manufacturer be liable to anyone for any consequential or incidental damages for breach of this warranty or any other warranties whatsoever, as aforesaid.

This warranty shall apply to the Product only. All Products, accessories or attachments of others used in conjunction with the Products, including batteries, shall be covered solely by their own warranty, if any. The Manufacturer shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, caused by the malfunction of the Product due to Products, accessories, or attachments of others, including batteries, used in conjunction with the Products.

The Manufacturer shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function.

NOTE: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating to conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

