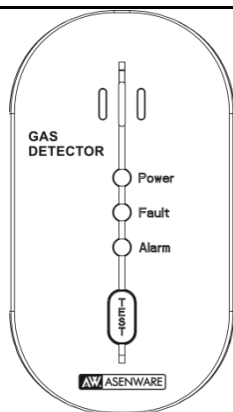


Conventional Gas Detector

EC-LPG

User's Guide



IMPORTANT ! READ ALL INSTRUCTIONS BEFORE INSTALLATION AND KEEP THIS MANUAL NEAR THE DETECTOR FOR FUTURE REFERENCE.

1. DESCRIPTION

The gas detector is designed for connecting to all kinds of fire alarm panels. Small and compact, the design and color makes it ideal for use in the home, small commercial properties and recreational vehicles. It is intended to detect CH₄ gas. The gas detector can be mounted high locations (for CH₄ gas). It is equipped with a sturdy mounting bracket for quick, easy and safe installation.

2. FEATURES

- Detect for CH₄ gas

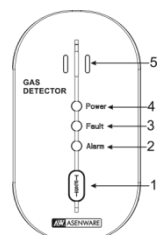
ATTENTION: Please take a few minutes to thoroughly read this manual, which should be saved for future reference and passed on to any subsequent owner.

- Easy to install, mounting bracket included.
- Loud 85 dB alarm and LED warning light.
- High quality durable sensor.
- Self diagnostic function by MCU intelligent software.
- Excellent reliability & High stability.
- Ideal for all kitchens.

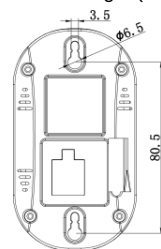
3. TECHNICAL SPECIFICATIONS

Unit Dimensions: 104.5mm (H) x 58mm (W) x 29mm (D)
Color: Ceiling White
Operating Temperature: -10°C to +50°C
Ambient Humidity: ≤95% RH
Alarm Horn: 85 dB @3m
Operating Voltage : 24VDC
Power Consumption: ≤2W (Alarm)
Value of Detection Threshold (Lower Explosive Limit):
CH₄ Gas: 3500ppm (7%LEL)
Alarm: Red LED with 85dB alarm
Warm Up Time: approximately 90 Seconds
Alarm Output:
Relay Output :0.5A@DC30V
Voltage Output :DC12V pulse

4. THE COVER AND OF YOUR ALARM



1. Test/Mute/Reset Button
2. Gas Alarm Light (Red)



3. Fault Light (Yellow)
 4. Work Light (Green)
 5. Buzzer
- #### 5. INSTALLATION OF DETECTOR

FIGURE 1 UNIT & INSTALLATION BRACKET

The gas detector can be mounted on the wall.
First find the suitable place to fix the bracket on the wall, and then plug the detector into the bracket. Please see figure 1.

6. Detector Connection terminals

- (See figure 3 output line)
1. The relay output module has a NO / COM output line. (Relay Output)
 2. DC24V Input
 3. DC24V Output
 4. NC

7. INSTALLATION INSTRUCTIONS

- The Gas detector is intended to detect CH₄ gas. It is intended for installation in the home, small commercial properties, and recreational vehicles.
- Installation shall only be undertaken by technicians holding a certificate issued by an authorized distributor.
- For detecting CH₄ gas (lighter than air), the detector should be installed within 30 centimeters below the ceiling and 50 cms above the oven and the maximum distance away from the furnace or gas appliances is 4 meters.
- The detector should not be located close to any obstacles preventing natural air circulation. It should also not be located in a draft or close to a cooker (cooking smells and other fumes can have a bad influence on gas detection).

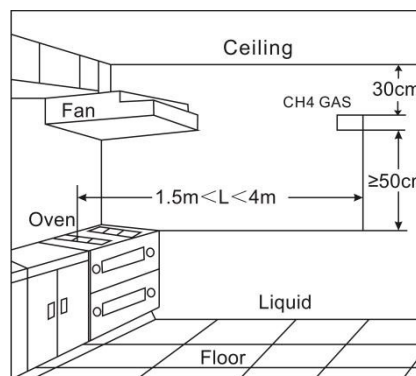


FIGURE 2 WHERE TO INSTALLATION

8. OPERATION AND TESTING

Check and test the gas detector after installation. It should be tested weekly and check after re-occupation following a holiday.

Power on :The green work light starts to flicker and the warm-up time is 2 minutes .During this process, only the button responds, and other tests do not respond. It can work normally after the warm-up is completed, and the green work light is always on before the test can be performed.

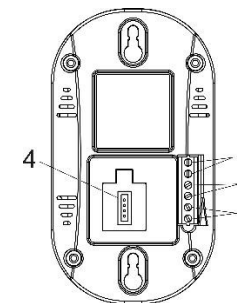


FIGURE 3 DC POWERED WIRING

Normal: When the device is in a normal state, the green light on the power supply is on, and the other lights are off

Fault: When the sensor is in a fault state, the yellow LED of the sensor flashes slowly. After troubleshooting, the device will return to normal

Alarm: When the detected gas leakage reaches the alarm level, the red alarm light will be on and the buzzer will sound. Usually the default models are relay and pulse voltage outputs.

Test: Under normal circumstances, press the test button, the unit should make a sound, the three LED indicators will light up once, the buzzer will beep twice, and there will be no signal output. In order to ensure the normal operation of the gas detector, you should test it once a week

Mute: The local mute can not be used in the alarm state, but the host can only be used to mute the sound remotely.

Reset: Local reset cannot be used in the alarm state, but the host can only be used to reset all remotely, there is no output, the alarm light is off, and it enters the preheating state

Remote test: the red light flashes when the host is testing

Remote mute: when the local alarm, the yellow fault light flashes quickly when the host mutes the sound remote