

PRODUCT PROFILE



Electrovalve (optional accessory)

PRODUCT INTRODUCTION

The product is an independent Combustible gas detector with built-in high stability Catalytic sensor and is used for detecting the leakage of combustible gases, including LPG, Natural gas and etc.. The gas concentration will be showed in the digital LED display. It is able to work under a wide range of voltage between 110 and 230V AC. A 9V rechargeable backup Ni-MH battery (optional) is recommended. And it is optional to be designed to work with electromagnetic valve or exhaust fan. It is a reliable protection to reduce your health and life risk.

TECHNICAL SPECIFICATION

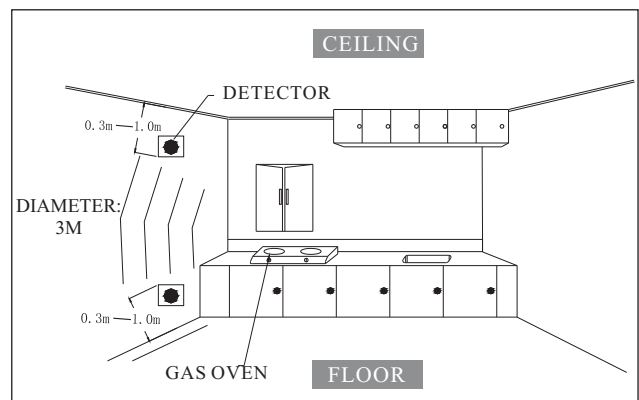
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|-------------------|------------------------------------------------------------------------------------------------------------|
| Operating Voltage | AC110~230V,50~60Hz,optional 9V rechargeable Ni-MH battery backup |
| Temperature Range | 0 °C ~ +50 °C |
| Humidity Range | 10% to 95% relative humidity (RH) |
| Alarm Level | Gas : 0.5% (5000PPM±1500PPM) |
| Alarm Reset | Auto reset when detected gas disperses |
| Sensor | Catalytic combustion sensor |
| LED Display | Displays battery level Displays Gas concentration, beginning to show when gas level higher than 2000ppm |
| Display range | 2000ppm-9900ppm |
| Indicator Lights | AC Power: Constant green light Alarm: red light rapidly flashing Sensor fault: constant yellow light |
| Audio Alarm | 85dB at 10 feet Gas Alarm :continuous beeps |
| Execute criterion | En50194 ;UL1484 |
| Dimension | 118.5*82*43mm |

PRODUCT FEATURE

- LED DISPLAY SHOWS GAS LEVEL
- LOW BATTERY ALARM (IF WITH BATTERY)
- 110~230V AC WIDE RANGE OF OPERATING VOLTAGE
- HIGH STABILITY CATALYTIC COMBUSTION SENSOR
- 9V BACKUP RECHARGEABLE NI-MH BATTERY OPTIONAL
- AUTOMATIC FAULT DETECTION
- CONVENIENT TEST BUTTON DESIGN
- SMT MANUFACTURE TECHNOLOGY
- EASY INSTALLATION AND MAINTENANCE
- COMPLYING TO UL-1484 AND EN50194

INSTALLATION

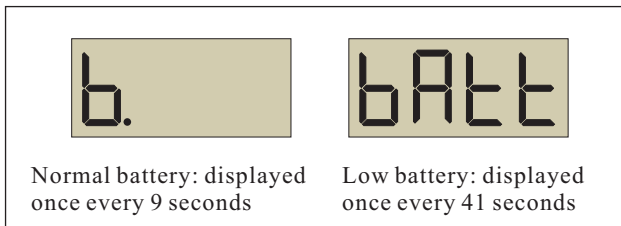
1. Please confirm if the detected gas is heavier or lighter than air. The heavier gases: LPG, etc; The lighter gases: Natural gas, Manual Coal gas, Marsh gas, etc.
2. Choose a suitable position to install the detector according to the gas specific gravity. To detect gases heavier than air, the installation height range: 0.3-1.0m from floor, semi-diameter to gas source <1.5m; To detect gases lighter than air, the installation height range: 0.3-1.0m from ceiling, semi-diameter to gas source <1.5m. Please refer to the following figure.



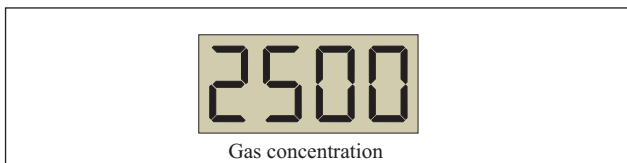
3. Fix screws into wall firmly and hang up the detector .
4. It should be noticed when installed at home, keep the detector away from gas cooker. Do not install the detector in places with heavy smoke and oil which will block the ventilation of the gas convection hole and affect the sensor sensitivity and increase the possibility of false alarm. Also do not install the detector in places near to exhaust fan, windows or doors or places with heavy vapour such as bathroom.
5. All wires installation must conform to the National and Local related regulations and criteria. The wires must have the suitable size and colorful marks for avoiding connecting error. Moreover, unsuitable connection of wires will result in the alarm error while gas leaking happened.

OPERATING INSTRUCTION

1. Connecting AC power, the power indicator will light and the LED display will show characters in cycle. Then the detector goes into self-test state for about 3-5 minutes. After the self-test, the LED display will go off which indicates the product enters into standby state. If the detector is AC powered, the power indicator will be constant on at standby and the LED display will go off showing nothing. If the product is powered by backup battery, the power indicator will go off and the LED display show "b." once every 9 seconds. When the voltage of the backup battery is low, the LED display will show "batt" once every 41 seconds and the buzzer will give out a Di sound.
2. When battery powered, the LED display shows as follows:



3. When the Gas concentration exceeds 2000ppm, the LED display will show the corresponding gas level. E.g.:



4. Press the test button; the alarm indicator flashes in red; the buzzer makes alarm sound and the LED display shows:



5. The detector will check inside sensors when working. If there is any malfunction with the sensor, the fault indicator will light in Yellow and the buzzer will long-buzz.
6. Valve connection (optional function). Connect the valve anode to the anode of the detector's signal output wire (red) and connect the valve cathode to the cathode of detector's signal output wire (black). Pulling up the manual pole of a valve to activate the valve to work. Then when pressing the test button, the valve will shut off the gas line.

EMERGENCY ALARM TREATMENT

The Detector alarms while the gas density in air exceeds the alarm level. The underside solutions are suggested :

1. Shut off the gas tube right away.
2. Open the window to make good air ventilation.
3. Extinguish all fire sources and do not use anything that can make fire, e.g. lighters, matches, etc.
4. Do not turn on/off the power of any electrical equipments.
5. Check out the cause of gas leaking and notify the relative departments and professionals in time. If it's false alarm, please check if the installation position is improper.

PRODUCTS TESTING

1. Make sure the detector connect AC power correctly. Under normal operation, the power indicator light will light constantly in green. If it does not light, please recheck connections. If the connections are correct and the Green power indicator still does not light, the detector should be replaced .
2. Press and hold the test button until the alarm sounds. When testing the Alarm, please check if the Alarm can be heard easily from the sleeping areas.
3. Never use an open flame of any kind to test this unit. You might accidentally damage or set fire to the detector or to your home. NEVER use vehicle exhaust! Exhaust may cause permanent damage and voids your warranty.
4. Do not stand close to the Alarm when the buzzer is sounding. Close exposure may be harmful to your hearing. When testing, step away when buzzer starts sounding.

WARNING!

1. The detector must be powered by a 24-hour circuit. Be sure the circuit cannot be turned off by a switch, dimmer, or ground fault circuit interrupter. Failure to connect this unit to a 24-hour circuit may prevent it from providing constant protection.
2. The detector must have AC or battery power to operate. If AC power fails and the battery is dead or missing, the alarm cannot operate.
3. Do not press the test button frequently when powered by the back-up battery. Explosive gas could present during the period between checks without going into alarm, especially during a condition that results in a rapid buildup of explosive gas.
4. Test the detector once a week. If the detector ever fails to test correctly, please have it replaced immediately! If the Alarm is not working properly, it cannot alert you in time.
5. This Explosive Gas Alarm is intended for residential use and is not suitable for use in hazardous locations as defined in the National Electrical Code.
6. Do not paint the unit. Paint may clog the openings to the sensing chambers and prevent the unit from normal operation.