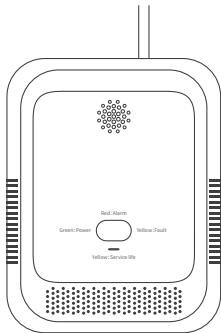


# ***SECAIR***

## **User Manual**





## Household Standalone Combustible Gas Detector

JT-ZL2010

Thanks for choosing JT-ZL2010 household standalone combustible gas detector. In order to ensure your personal and system safety and realize the best product performance, please read this manual carefully and completely before installing, using or repairing this device, and the Warnings and Notes in this manual should be paid special attention to.

### Warnings:

- Please read this User Manual carefully before using this device!
- Please keep the circuit open before installing and connecting wires to prevent electric shock!
- Non-professionals should not connect electric wires!

## 1. Product Description

The JT-ZL2010 household standalone combustible gas detector (detector) adopts high quality gas sensor; It is made with high performance MCU and advanced electronic elements as well as sophisticated technologies; Its software and hardware technologies enable it to monitor sensor failure simultaneously when detecting gas leak concentration, which, at the same time, brings high degree of safety and reliability.

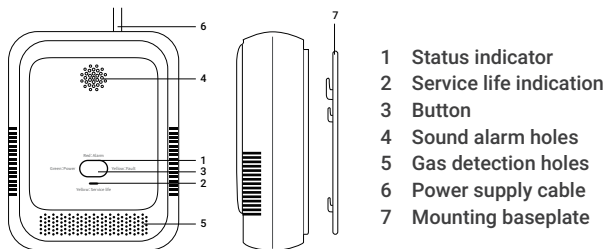
This detector is suitable for installing in residential houses with potential gas leakage, it can consecutively monitor indoor combustible gas concentration, when the gas concentration reaches its alarming value, it will send out sound and light alarm and could automatically close the solenoid valve to shut off the gas supply, it could also start the exhaust fan to remove the gas out from the room. It will help you to take immediate action to prevent fire, blast and injury accidents from happening. Standard implemented: EN 50194-1:2009

## 2. Technical Parameters

|                       |                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------|
| Model                 | JT-ZL2010                                                                                       |
| Operating Voltage     | AC 100V~220V 50Hz~60Hz                                                                          |
| Operating Environment | Temp.: 0°C~55°C<br>Relative Humidity: <95% (non-condensation)<br>Ambient Pressure: 86kPa~106kPa |
| Storage Temperature   | -25°C~55°C                                                                                      |

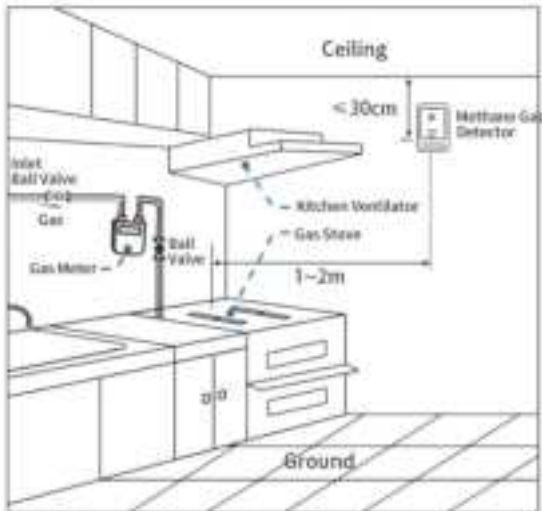
|                      |                            |
|----------------------|----------------------------|
| Response Time        | ≤30s                       |
| Sampling Method      | Free diffusion             |
| Applicable for       | Methane (CH <sub>4</sub> ) |
| Sensor Type          | Semi-conductor             |
| Sensor Life          | 5 years (typical value)    |
| Alarming Value       | 7%LEL ± 3%LEL              |
| Alarming Mode        | Sound + light              |
| Alarming Sound Level | ≥85dB (1 meter ahead)      |
| Installation         | Wall-mounted               |
| Size (L*W*H)         | 112mm*86mm*33.5mm          |
| Standard             | EN 50194-1:2009            |

### 3. Structure and Function Indication



## 4. Installation Instruction

4.1 This detector is suitable for indoor environment only, please install it at places with potential gas leakage or gathering, and it should be installed horizontally 1m~4m from the gas appliance and vertically  $>0.3\text{m}$  from the ceiling. Users could choose install the detector according to below diagram based on actual situation.



## 4.2 Avoid areas as below

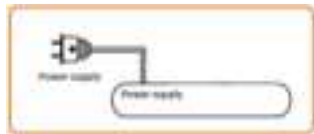
- Areas of ventilation inlet/outlet, exhaust fan, doors/windows with strong air flow.
- Areas with moisture and water drops.
- Areas right above heat source or water steam.
- Areas above gas appliances.
- Areas easy to be polluted.
- Areas covered by obstacles.

If the room is to be painted or refurbished, please install the detector after the refurbishment or painting work.

## 4.3 Installation Method

- 1) Choose a place on the wall suitable for installing the detector.
- 2) Slide the mounting plate down.
- 3) Use expansion screws to fix the installation baseplate.
- 4) Power on the detector and check to ensure it works normally; If external devices such as solenoid valve, please connect the wires correctly.
- 5) Install the detector by hanging it onto the baseplate.

## 4.4 Wiring Diagram



### Notes:

The power supply cable is with a plug, please directly connect to a correct socket.

## 5. Operating Instruction

- 1) Connect the detector to the power source, green power source indicator will flash, then the detector will enter preheat status and lasts for 3 minutes, during preheating, the detector could not detect gas leakage; 3 minutes later, the detector will enter normal detection mode, its green power source indicator will be normally on.
- 2) When the gas concentration value in the air reaches the set alarming point, the detector will enter alarming mode, its red indicator will flash, at the same time, it sends out beeping alarm;  
Then, please shut off the gas supply immediately and open the window, and do not turn on any electrical appliances (including cellphone), if necessary, please ask for gas experts to eliminate the gas leakage failure.
- 3) In the alarm state, when the gas concentration value is below the safe value, the detector will disarm the alarm automatically, if the detector sends out sound-light alarm, it means the gas concentration exceed standard.
- 4) If the ring light show yellow, on all the time, and beep all the time, it means detector faults, cannot detect correctly, please contact distributor for repairing.
- 5) For daily check, please short-press the button once, the detector will enter simulate alarming mode and it will send out sound-light alarm signal, red indicator light flash and beep, return the normal detect state later, if the detector does not alarm normally, please contact distributor or manufacturer for repairing.
- 6) If the service life indicator is on, that means the sensor life is due,

please contact the distributor or manufacturer for repair or buying a new one.

## 7) Indicator light status

| Mode             | LED Ring Indicator           | Service Life Indicator | Buzzer                 |
|------------------|------------------------------|------------------------|------------------------|
| Preheating mode  | Green light flash            | —                      | —                      |
| Normal mode      | Green light on all the time  | —                      | —                      |
| Testing state    | Red light flash              | —                      | Beep 4 times           |
| Failure mode     | Yellow light on all the time | —                      | Beep all the time      |
| Alarming mode    | Red light flash              | —                      | Beep 4 times and cycle |
| Service life due | —                            | flash                  | Beep 3 times and cycle |

## 6. Troubleshooting

| Failure                                    | Possible Reason(s)                                | Measure(s)                                         |
|--------------------------------------------|---------------------------------------------------|----------------------------------------------------|
| Green power source indicator not on        | Power source cable not connected correctly        | Check and connect the power source cable correctly |
|                                            | Power source indicator damaged or circuit failure | Contact distributor or manufacturer for repair     |
| No sound and light alarm during self-check | Circuit failure                                   | Contact distributor or manufacturer for repair     |



|                                                      |                                                                                                                                           |                                                |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| No response to detected gas                          | Still under preheating                                                                                                                    | Wait till preheating ends                      |
| No response to detected gas                          | Circuit failure                                                                                                                           | Contact distributor or manufacturer for repair |
| Continuously alarming after turned on and time-lapse | The environment is with large number of cigarette smoke, alcohol or volatile organic compounds like petrol, perfume, banana oil or paints | Move to clean air spaces and try it again      |
|                                                      | Over-long storage time                                                                                                                    | Power on and wait for 2 hours or more          |
|                                                      | Circuit failure                                                                                                                           | Contact distributor or manufacturer for repair |

#### **Notes:**

For any failures cannot be resolved by yourself, do not disassemble the detector, please contact the distributor or manufacturer for guidance.

### **7. Notes**

- 1) The large number of cigarette smoke, alcohol or volatile organic compounds like petrol, perfume, banana oil or paints inside the room may cause the detector to alarm;
- 2) Do not use gas sample without clear concentration value to test this detector, ultra-high concentration gas will not only damage shorten the detector sensor service life but also harm human health;
- 3) Please contact your distributor or manufacturer for help and use correct gas sample with correct concentration value to test the detector once a year;

- 4) This product cannot be used nor stored in any environment with corrosive gases (like chlorine gas);
- 5) Please routinely clean the dust or oil contamination on the detector surface with brush or dry soft rag;
- 6) After long-term storage or long-time transportation, please power the detector on and wait for 24 hours or more to realize optimal performance.
- 7) Under normal operating environment, the semiconductor sensor could work for 5 years.

## **8. Product Maintenance**

- 1) Please clean the detector at least one time a year, make sure its gas inlet is free of dust or oil contamination;
- 2) After cleaning, install the detector back to its baseplate and conduct function check;
- 3) Conduct an analog alarming test each half year to make sure it works normally;
- 4) Do not expose the detector to high concentration gas sample for long time or frequently, or it will lower its sensor sensitivity or shorten its sensor life or even damage the sensor;
- 5) The detector should be connected to stable power source;
- 6) When detector is found in failure status, please contact the distributor or manufacturer for repair or buy a new one.

# MAKE FIRE

## SAFETY A PRIORITY

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