

indicator;

- The LED lighting red indicates the gas leaking and alarm;
- The LED lighting green indicates normal working;

Without the LED lighting indicates the detector has some trouble;

Alarm Density and Restoration

When the gas density achieves or surpasses the limit, the detector will maintain alarm; When the gas density reduces and less than the limit, the detector automatic stopping alarm.

The alarm limit as following:

Natural gas: 0.1~1.0%

Liquefied petroleum gas: 0.1~0.5%

Artificial coal gas: 0.04~0.5% (CO≤10%)

Artificial coal gas: 0.04~0.25% (Co≤20%)

Artificial coal gas: 0.025~0.15% (CO≤30%)

Sensitivity

- Adjust the sensitivity of iDo501CM and iDo501CMW through the sensitivity knob (Figure 1 and Figure 2). Gyrate anti-clockwise reduces the sensitivity, gyrate clockwise increases the sensitivity.

Installation

- Choose the appropriate installation site;
- Fix the bracket by screw;
- Opens the detector's front cover, and finish the connection (Figure 1 and Figure 2);
- Inlays the detector to the bracket (Figure 4);

Maintenance

Suggest to clean the detector every three months. When cleaning, it must be power off and be careful to harm the mainboard of the detector.

How to Do When Alarm

iDo501CMW.

- The NO,NC jumpers on the iDo501CM are used for normal close setting and normal open setting. User can choose normal close output or normal open output for alarm or utility output.

Matching for Wireless Product

- Power the detector through the power adapter (Figure 3);
- Set the wireless control panel or receiver at matching status;
- Press down the test button more than 3 seconds. The detector will send out a signal for matching;
- After finishing the matching, restores the control panel to working status;
- The detector report to the control panel every 6 hours. Otherwise the control will alarm detector trouble to the central monitor station.

LED Indicator

- Jumper S2 is used to close or open the LED

When alarm:

- Shut down all of the to cut-off gas;
- Open all of the windows and doors to make the air flow rapidly;
- Extinguish all fire sources and anything can cause fire;
- Do not turn on or off any electric appliance;
- Check the reason of gas leaking, and notice the relative departments and professional persons in time.

ROISCOK WARRANTY

The warranty is promised by ROISCOK Electronics Ltd. and all its partners to all of the users whom ROISCOK products enthusiast.

All products, within 18 months from the date leaving our plant besides the artificial damage, we take charge of the after service or replacement new one freely. After the time limit, we take charge of lifelong paid service. Regardless of the middle process or/and sale link, all of ROISCOK product has the right to enjoy the after service announced here. Any business agent, the dealer

● To install the detector according to the density:

When the gas is heavier than the air: the installation position should be lower and at the place above the ground 0.3-1.0 meter, and within 1.5 meters to the gas resource;

when the gas is lighter than the air: the installation position should be higher and at the place below the ceiling 0.3-1.0 meter, and within 1.5 meters to the gas source.

Connection

- The inappropriate connection will possibly cause the detector not work well. The connection of iDo501CM as shown in Figure 2:

-12VDC+: power input (red cable and black cable);

Alarm: alarm output, NC (yellow cable and white cable)

UO: utility output

- Only need connect power input for

or installer has no right to refuse to provide the after service.

For quickly service, we hope the user to fill in "Return Products List" in detail together with the units. The goods may return directly to our company, agent, the dealer or installer. When necessary, the users are welcome send "User Complaint Letter" to us.

The Warranty go into effect from the date of July 1, 2007.

ROISCOK Electronics Ltd. is responsible to explain.

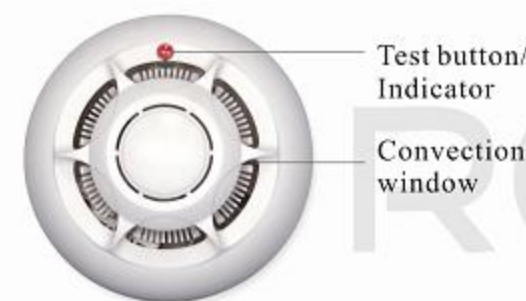


Fig3. Indicator LED and Test button

● Alarm volume: ≥70dB/m

● Alarm time: ≤10s

● Alarm restoration: ≤30s

● Working voltage: DC12V

● Operating current: 25mA (12V) static state < 100mA, warning < 100mA

● Quiescent current: <10uA (wireless product)

● Warm-up time: 2 minutes

● Wireless frequency: 433MHz/868MHz

● Dimensions: φ 140*70 mm

Installation Position

● Confirm the density of the gas:

The gas which is heavier than the air: liquefied petroleum gas and so on;

The gas which is lighter than the air: Natural gas, carbon monoxide, artificial coal gas, methane and so on.

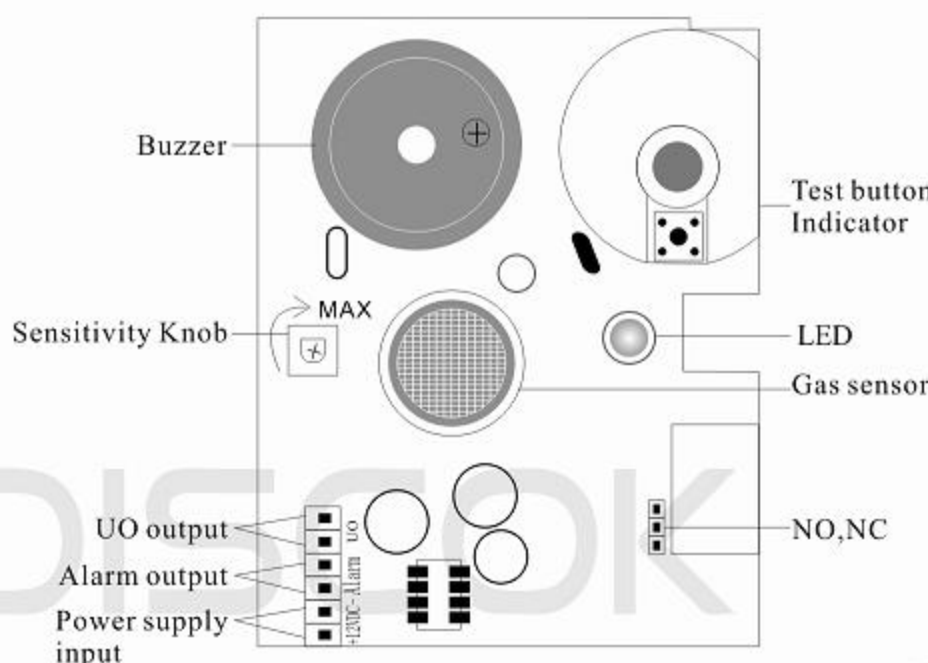


Fig1. iDo501CM Main board

● LED instructs the working status, alarm status and trouble

● Provides the double model type output

● Alarm output: NC or NO

● Provides the UO output for electromagnetic valve, the ventilating fan and so on

● Sensitivity adjustable

● Electrode protection

Technical Data

● Alarm gas: Artificial coal gas, natural gas, liquefied petroleum gas

● Working conditions: -20°C ~ +60°C

● Relative humidity: ≤90%RH

● Consumed power: ≥50W

● Stability: The long lasting work warning density error is not bigger than ±5%LEL

● Duplication: The redundant test warning density error is not bigger than ±5%LEL

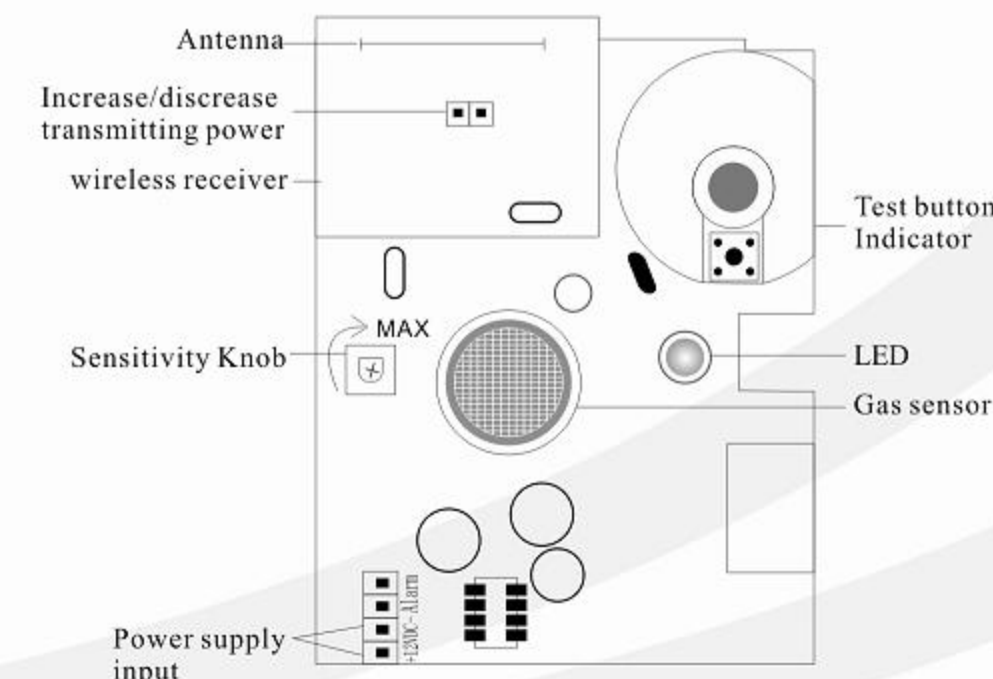


Fig2. iDo501CMW Main board

The iDo501CM and iDo501CMW are designed conforming to the standard of GJ3057-1996, EN50194-1:2009, EPA3050B:1996, EN1122B:2001, EPA3052:1996, EPA3060A:1996, EPA7196A:1992, EPA3540C:1996, EPA8270D:2007. Adopt the optoelectronic technology + micro processing technology. When the environment gas density surpasses the limit, the detector will alarm immediately, including the LED blinking, starts the buzzer, and report to the receiver or/ and control panel by wired or wireless, etc. The wired product has many kinds of options: The single channel output (NO, NC) and two channel output (No, NC). Without special statement, we supply single channel output products (NO, NC).

iDo501CM is wired gas detector

iDo501CMW is wireless gas detector, 433MHz/868MHz

Main Feature

- Can detect coal gas, the natural gas, liquefied petroleum gas;
- With high sensitivity and fast restoration.

iDo501CM/ iDo501CMW Wired/ Wireless Gas Detector



Fig4. Detector bracket