Instruction Manual of JTQ-BM-925TE Combustible gas detector

------ Please read this Manual carefully before installing and using the product. -----

1. Product overview

JTQ-BM-925TE, Point type Combustible gas detector, （hereinafter referred to as the detector）,which measurement range is 0~100% LEL, is with a new type thick film metal oxide semiconductor, screen printed gas sensor, provides accurate and continuous monitoring of combustible gases in household , industrial, hotels,apartments, etc. It can also access the Sanjiang fire alarm control system.

2.Product Features

With the semiconductor gas sensor and excellent performance of MCU, The detector is stable, long-life and easy to install.

3.Technical Parameters

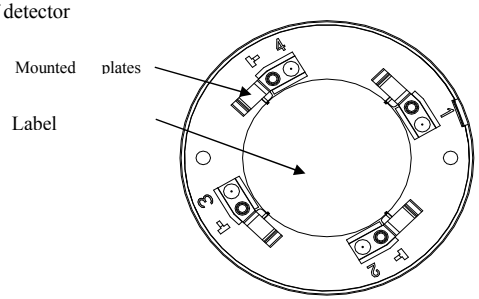
3.1 Operating Volt： DC24V，limited voltage range： 12～28V
3.2 Operating Current：Monitoring status, ≤ 35mA @DC24V； Alarm status, ≤ 40mA @DC24V.
3. 3 Two Bus system：Non polarity two-wire system, current ＜ 400μA
3.4 Operating environment: Temperature: 0℃～ 55℃; relative humidity: ≤95%, without condensation.
3.5 Alarm Level: Natural gas 10%LEL（±30％）
3.6 Response timing：≤30 Seconds, reset automatically
3.7 Working life：＞5 years（clear air condition）
3.8 Power on（or reset）：The indicator blinks twice quickly when power on or reset, then it blinks in the sequence of green, red, and yellow, along with the warning sound of buzzer.
3.9 The indicator: Warming up status, green indicator blink quickly (about twice per second);
Monitoring status, green indicator blinks once per around 12 seconds (once per minute when there's no input signal of two bus system); Alarm status, red indicator blink quickly (twice per second); Fault status of sensor, yellow indicator blink once per 3 seconds.
3.10 Buzzer: Alarm status, it sounds twice per second; Fault status,it sounds once per 3 seconds.
3.11 Self-inspection button: Press the button, the indicator blinks in the sequence of green, red, yellow in circles along with the the warning sound of buzzer.
3.12 Dimensions: Ø104mm x 48 mm. Material of enclosure: ABS (anti-flaming VO)
3.13 Installation: DZ-925T Base mounted. Surface mount or ceiling mount
3.14 Comply with standards: GB 15322.1-2003

4. Configuration and connection

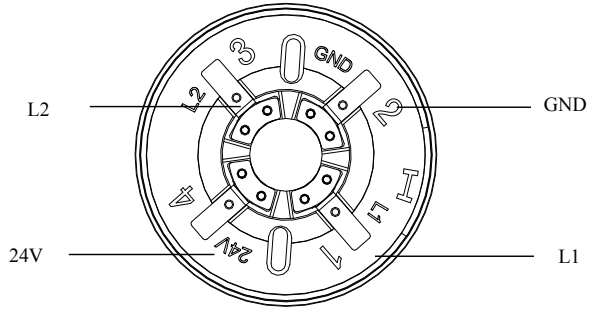
4.1 Appearance of the detector



4.2 Back side of detector



4.3 Connector of base



Note: A. Points of 1 and 3: input of bus wire (non polarity)
B. Points of 2 and 4: input of DC24V (non polarity)

5. Installation / Usage instruction

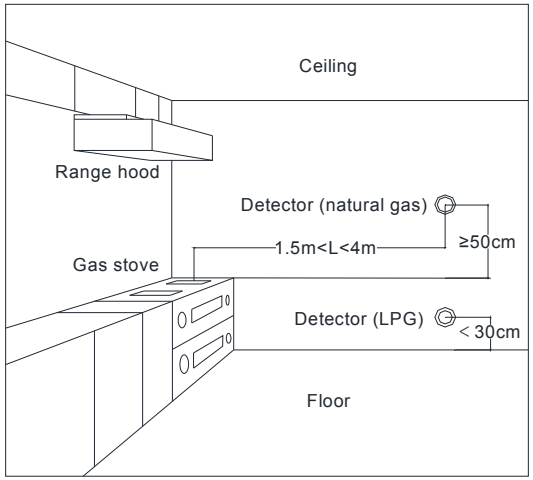
5.1 Wire with the power wire, bus wire, and the base of DZ-925T firstly, after all the decoration work in the application site is done, (Note! Don't make your detectors appealing during the decoration process, otherwise the sensor will be damaged.), then connect the base with the detector.
Power on the detector, the indicator blinks twice quickly, then it blinks in the sequence of green, red, and yellow along with the warning sound of buzzer.
Preheating, green indicator blinks quickly; After preheating, green indicator blinks slowly for around 20 seconds, then it comes to monitoring state, green indicator blinks once per around 12 seconds (once per minute when there's no connection of two bus system).
5.2 Location of mounted
Decision of location (as shown below) should follow the below instructions, and make a detail analysis according to the reality of fuel gas and cookware, to decide the location.
5.2.1 Detector should be installed in the same room with stoves or gas fires.
5.2.2 The base of detector shall be between the stove and the source of gas, horizontal distance between 1.5 and 4 meters.
5.2.3 Decide the vertical height according the type of gas

--For LPG. Detection of petroleum gas should be installed 0.3m from the ground(because of the gas is heavier than the air)

--Gas detection：should be installed above the stove or any other gas source at vertical distance

of 0.5m and 0.3m from the ceiling (because of the gas is lighter than the air)

5.2.4 Diagram of installation location.



5.2.5 Locations to avoid

a Steam, cooking fume, ventilation are present directly.

b Close to air blowing heavily like doors, windows, exhaust fan and air inlet.

c Close to shower room, plenty of steam, and power cut at night likely.

d Explosion Proof place

e Outdoor or where the temperature is below 0℃ or above 55℃

f Object separates the detector from the gas appliances.

5.3 Wiring requirements

For 24V power cable, we suggest of wires which cross-sectional area is equal to or more than 2.5mm2, bv type line;

Bus can be RVs flame-retardant copper core wires which cross-sectional area is more than or equal to 1.0 mm2.

5.4 Once combustible gas in the air reaches the set alarming level, the detector starts alarming, red indicator flashes and rings a buzzer (twice per second); When the gas concentration is restored lower than the set alarm, the detector can be reset automatically; Detectors accessing to the alarming system, in about 15 seconds alarms will be informed to the controller.If the detector alarm fails to reset in 30 seconds, please immediately cut off the gas source, open the window, it is strictly prohibited to turn on or off any electrical appliances, and ask the qualify people to come to check and solve the leakage.

5.5 If the detector is flashing yellow light and ringing a buzzer(approximately every 3 seconds),and the detector can not be returned to the normal monitoring state after the self inspection button is pressed, it indicates that the detector is faulty (sensor fault).This detector has no longer function of detecting leakage, please contact the dealer;If the detector is connected to the controller, the detector will report the fault information to the controller.

5.6 Operation buttons: Being pressed the self inspection button, the detector will be tested by itself (in the sequence of lighting green, red, yellow, and accompany with a buzzer sound),it will enter to the monitoring state after the end of the self inspection test.

6. Failure analysis and troubleshooting

	Failure	Reason analysis	Troubleshooting method	Remarks
1	Alarm once powered on.	Detector is powered for the first time or power is cut off for a long time.	Detector can be reset or powered again after operating for a while.	
2	Detector cannot be encoded	The addressable base is not properly connected to the DC24V power supply or two bus wire.	Please plug in the addressable base with workable 5 core plug, then encode it.	

7. Repair and Maintenance

In case of failure, please do not take apart the detector without permission, and notify the company or the local office, we will serve you as soon as possible.

8. Dos and Dont

8.1 Same address can't be used twice in the same loop , otherwise the system will be reported code failure.

8.2 This product shall not be stored or used in the environment containing corrosive gases (such as chlorine, etc.)

8.3 Do not allow the detector to be exposed in the decoration environment, please wait to complete the decoration of the site , then the detector can be installed.

8.4 Please do not use the non calibrated concentration of the gas to test the product, ultra-high concentration of gas will affect the lifetime of the detector, also endanger human health.

8.5 Please avoid long time for hard drinking or use heavily perfume, hair gel, moss, pesticides, gasoline, alcohol, thinner, banana oil, paint and other volatile organic compounds to affect the normal monitoring of the detector.

8.6 Do not cut off the power supply at will.

8.7 If the detector is out of power for a long time, it needs more than 5 hours to reset to normal application.

8.8 For your safety, please contact the dealer / service provider / manufacturer,it will conduct an inspection according the specified gas sample and consentration once a year.

9.Special notification

9.1 Please replace it timely when the product of the sensor exceeds the service life (5 years).

9.2 Our company does not undertake any responsibility for the warranty when one of the following circumstances occurs:

9.2.1 Failure to install or use the product in accordance with the requirements of this specification;

9.2.2 Damage due to excessive power grid voltage or opening the housing without permission;

9.2.3 Damage due to the use under drench, strong external force or in the environment which is not in conformity with the specification of environmental temperature ,humidity, or high dust;

9.2.4 Any other damages caused by improper use.

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