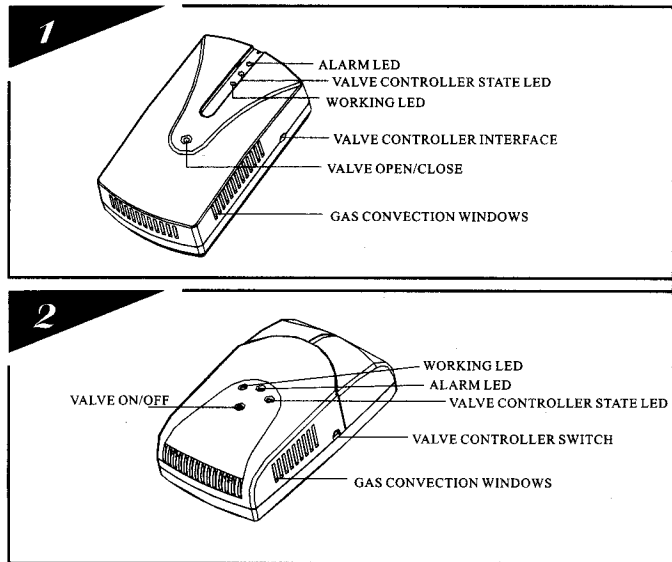


HOUSEHOLD GAS LEAKING DETECTOR

COA-88A (12V)

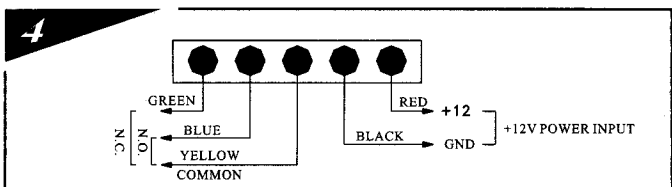
The Household Gas Leaking Detector with SCM technology and the advanced low-current gas sensitivity components, enables detecting the gas leaked in time, then send out the alarm correctly. The Detector accords with the standard of "Household Gas Detector" of CJ3057-1996.

GENERAL VIEW



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TERMINAL BLOCK FIGURE



INSTALLATION

1. Please confirm the test gas is heavier than air, or lighter than air. The gas heavier than air: LPG etc. The gas lighter than air: natural gas, carbon monoxide gas, manmade gas, marsh gas.

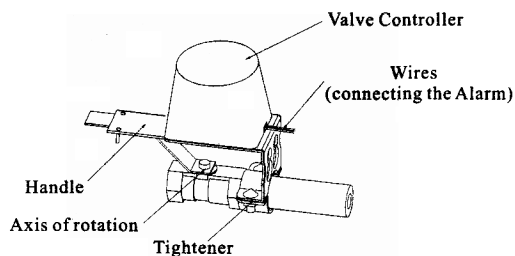
2. Choosing the suitable position to install the Detector according to the gas heavier than air or not. Detecting the gas heavier than air: Installation height from floor: 0.3-1.0m Semi-diameter to gas source: <1.5m Detecting the gas lighter than air: Installation height from ceiling: 0.3-1.0m Semi-diameter to gas source: <1.5m

3. Avoid installing the detector close to the following sources of interference: direct air flow form vents, fans, doors, windows, sources of steam, oil vapor, etc.

4. AC 220V and DC 12V optional. If you choose the AC 220V with the white cable, the detector will alarm by sound and light, and without the red/black/yellow/blue/green cables; Otherwise, the Detector without the white AC 220V cable if you choose the DC 12V power supply.

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TECHNICAL SPECIFICATIONS

Induced Gas:	Coal Gas / Natural Gas / LPG
Power Input:	AC 220V 50Hz Or DC 12V
Buzzer Level:	≥70dB/m
Alarm Density:	15% LEL
Resuming Density:	8% LEL
Operating Temperature:	-10℃ to 40℃
Operating Humidity:	≤90% RH
Stableness:	≤±5% LEL
Repetitiousness:	≤±5% LEL
Alarm Mode:	≤±5% LEL
Alarm Pattern:	Flash & sound alarm/Shut off Gas Valve/Network alarm signal
Power Consumed:	≤5W
Size:	125x70x42mm(LH-82) 120x70x44mm(LH-88)

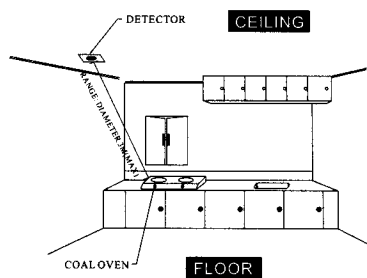
NOTE: Demarcating gas is Ch4

- 2 -

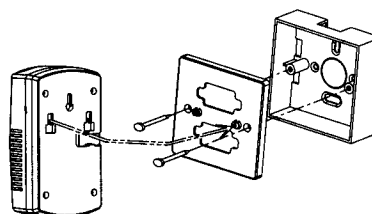
5. Installing the Valve Controller (1) Valve Controller must be installed over the Ball Valve, the handle of the Valve Controller must lock the handle of the Ball Valve. The axis of rotations of both Controller and Ball Valve must align for running normally. (2) Fixing the Valve Controller on the Gas Pipeline.

Note: The Valve Controller is additional excluded.

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WIRES INSTALLATION DIRECTIONS

All wires installation must accord with the National and Local effective laws and criteria. The wires must have the suitable size and colorful marks for avoiding connecting error. And unsuitable connection of wires will result in the alarm error while gas leaking happened.

USAGE

The Household Gas Detector can be used as a kind of alarm independently, or with network, valve controller linkage, exhaust fan function optional.

1. Independently

(1) Choosing the suitable position to install the Detector according to the INSTALLATION.

(2) With DC 12V or AC 220V power supply, the green LED flashes once a second for 3 minutes continuously, that runs the inside sensor. Then the Detector sends out a sound "Di" and the green LED lights, that means the Detector entries normal working state.

(3) The orange LED lights while the detector is used independently.

2. In Network, Valve Controller Linkage

(1) Choosing a suitable position to install the Detector according to the INSTALLATION, and fixing the Valve Controller with the Alarm. To connect the Detector and the Controller, with the N.C. or N.O. contact optional accord with the controller system.

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TEST

To test the installed Detector while using independently or in network, you can give some gas around in distance of 5cm to the gas convection windows by using un-ignition lighter. Gas testing frequently may result in reducing the sensitivity of the Detector. The alarm density of gas is set according with the criteria of CJ3057-1996. The Detector will stop alarm and resume the detecting state while the gas density reduced. The alarm output switches can connect with the defense input switches of alarm system.

NORMAL MAINTENANCE

Suggestion: the user must brush and clean the gas convection windows with a little cleanser every three months, and must retest the Detector after cleaning for preventing the cleanser into the Detector.

EMERGENCY ALARM TREATMENT

The Detector alarms while the gas density in air beyond the alarm density. The relative treatments as below:

1. Shut down the tube valve right away.
2. Open the window and make the air flow rapidly.
3. Extinguish all fire sources and anything can make fire, e.g. lighters, matches, etc.
4. Avoiding open/close all kinds of electricity.
5. Check the reason of gas leaking, and notice the relative departments and professional persons in time.

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(2) With DC 12V or AC 220V power supply, the green LED flashes once a second for 3 minutes continuously, that runs the inside sensor. Then the Detector sends out a sound "Di" and the green LED lights, that means the Detector entries normal working state. While power supply, the orange Alarm LED flashes and Valve Controller entries the normal working state. If the orange Alarm LED lights continuously, it means the Valve Controller error or unconnected.

(3) Push the Valve ON/OFF button, the Alarm sends out a sound "Di", the Valve Controller closes the valve, the orange Alarm LED off, it means the Valve has been closed. Push the Valve ON/OFF button again, the Alarm sends out a sound "Di", the Valve Controller opens the valve, the orange Alarm LED flashes, it means the Valve has been opened.

3. While detecting the gas leaking, the red LED flashes, the Buzzer sends out alarm sound "Di ... Di", and the network output signals. The Detector resumes for the detecting state after the gas taken off.

4. The buzzer long beep and the green LED OFF means the inside sensor wrong. Please cut off the power supply, and contact the After Service Center.

5. While using the Detector independently, exhaust the leaking gas out of the window via using the N.O. contact of the network signal to control the exhaust-pipe.

6. If the Detector runs disorderly, cut the power off and rerun again. If still in error, please contact the After Service Center.

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LED INFORMATION

RED LED FLASH:	gas leak
YELLOW LED FLASH:	valve controller open
YELLOW LED ON:	valve controller unconnected or error
YELLOW LED OFF:	valve controller close
GREEN LED FLASH:	running the inside sensor
GREEN LED ON:	working normally
GREEN LED OFF:	power off or sensor destroyed

NOTICE

1. The detector must be installed and connected accordingly. It can not work if without the power supply orderly.

2. Please periodically maintenance according to the directions.

3. The Detector must have a test every half a year.

4. For various reasons, including, but not limited to, changes in environmental conditions, electric or electronic disruptions and tampering, the Product may not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.

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