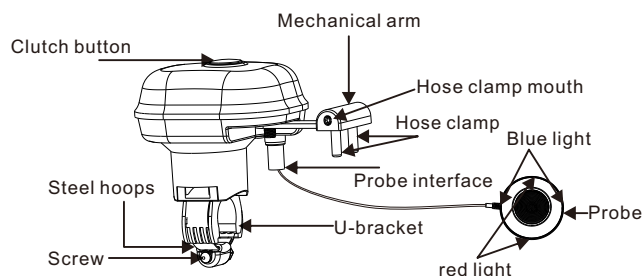


TC-U9AF-JXS/Z

Manipulator gas alarm installation instructions

1. Product introduction

TC-U9AF-JXS/Z robot is a dedicated gas detection products, it works Stable performance, easy installation, timely detection of gas leaks, when the leakage of gas, it will triggered the alarm, the robot will send a continuous "beep - beep" alarm sound and report it' s State to the host, at the same time will immediately shut down the mechanical arm, to prevent gas leakage. Manipulator suitable for any use of gas venues, including kitchen, hotel, and etc. It is the best choice for safe and smart home.



2. Technical Parameters

Working voltage: DC12V (external AC adapter)

Working current: monitoring current ≤100 mA

Alarm current ≤ 400mA

Wireless frequency: 2.4GHz

Protocol: ZigBee proprietary protocol

Network Protocol: Zigbee IEEE802. 15. 4

Detection gas: natural gas

Alarm concentration: 8% LEL

Alarm concentration error: ± 3% LEL

Long-term stability error: <5% LEL

Alarm sound: 85DB

Rotating torque:> 5KG

3. Function Description

Power connected: the correct connection of the gas probe to the valve controller, and connected to an external DC12V power supply;

Equipment: power, the valve controller issued a "beep" sound, the robot arm will be opened automatically; the same time, the gas probe alternately flashing red and blue lights, said Sensor preheat, the blue light is steady to enter the normal working condition;

Equipment alarm: When the gas leak is detected and the alarm threshold is reached, the gas sensor flashes red, and after receiving the alarm pulse, the valve controller will send a continuous "Di-Di"

Alarm sound, and report the status to the host, at the same time, it will immediately close the mechanical arm; (the user can press the clutch button to manually turn the mechanical arm to open the state; or restart the power from Move the robot arm open)

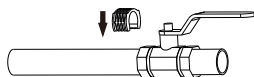
The product has the function of automatically detecting the failure of the probe. When the sensor fails or the probe is powered off, the valve controller will automatically report the status.

Gas valve controller, with the heartbeat reporting function, to avoid equipment failure.

Fault alarm: When the "probe interface" or failure of the probe failure, the robot will lose the probe and thus can not detect gas.

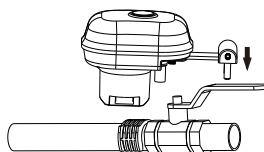
4. Installation

A. Place the U-bracket on the front of the gas valve;



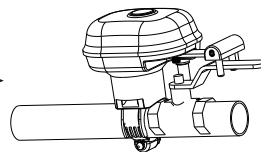
B. Mechanical arm and gas valve in the same direction and two hose clamps Placed on both ends of the valve

C. The manipulator with steel sleeve set on the gas pipe, And fixed with screws;



D. Use a hexagonal screwdriver to fix the mouth at the hose clamp Adjust the hose clamp to the valve;

E. Insert the probe into the probe Mouth and fixed with strong glue 1.5 to 2.5 meters from the ground Wall or ceiling.



Note: The mechanical arm should rotate in the same direction as the valve. If installed in anti-direction, the manipulator will not be able to close the gas gate automatically when alarming.

5. Add network settings

Screening operation:

A. The device will power on ZigBee signal request network access operation, the robot placed host within 3m, the phone APP or Zigbee host set to "add device" mode,

Click Start until the robot enters the network successfully. If the manipulator is not connected to the network 20 seconds after power-on, please operate the manipulator to re-power on and send the Zigbee signal Seeking access to the network.

B. The manipulator into the work mode, the lighter to non-ignition way, at a distance of about 3m from the probe to the release of some gas around the robot to send "equipment alarm" Wireless signal.

Quit the net operation: 10 seconds after the robot normally powered on, re-power on the robot, power on the wait for about 2 seconds, re-power again, repeat 3 times (or 3 times)

Re-power, the robot will automatically withdraw from the Zigbee host, so as to complete the network back operation.

6. product testing

Equipment alarm: After the robot is installed, the lighter can be used to ignite the way, at a distance of about 3m from the probe to the release of some gas around to test whether the robot

Alarm and alarm can automatically shut down the valve. Do not use too much gas to test, doing so will reduce the sensitivity of gas sensors.

Fault alarm: Manually pull the "probe interface" line pulled out, wait for about 10 seconds, the robot will send a "fault alarm" wireless signal to the Zigbee host. After the test is completed,

Please turn off the power of the robot and reconnect the "probe interface" cable.

7. Precautions

1, the product must be the correct power supply for any reason to lose power, the alarm will not work.

2, this product must be installed on the instructions of the regular maintenance. Detectors can not be unlimited life expectancy should be tested once every six months and found that failure must be repaired or replaced as soon as possible.

3, the product can reduce the incidence of accidents, but can not be sure foolproof. In addition to the proper use of this product for your safety, you should also be vigilant in your daily life.

Strengthen security awareness.

8. Police intelligence processing

When the concentration of combustible gas in the ambient air reaches or exceeds the set value of the alarm, the alarm will enter the alarm state, this time should:

1. Check if the pipe valve is closed.

2. Immediately open the windows to allow indoor air circulation.

3. Extinguish all sources of ignition and avoid using any items that create a spark (eg, a lighter, a match, etc.).

4. Avoid switching all kinds of electrical appliances.

5. Check the gas leak reasons, and promptly notify the relevant departments and related professionals to deal with, after checking If the alarm is false positives, the user should check the alarm installation location is No suitable.

9. Routine maintenance

Robots exposed to the air for a long time, the mechanical arm will be corroded, the gas convection window will have some oil adhesion, the sensitivity of gas sensitivity. Users are advised to press the clutch every month

Button, manually rotate the mechanical arm to check whether the mechanical arm rotates normally. Every three months (or depending on the pollution situation), mix a small amount of detergent with a brush to clean the gas convection window and cut

Do not let the cleaning fluid into the body, after cleaning to re-test the product.