

# TC-U9AF-CO/Z

## ZigBee Carbon Monoxide Gas Detector Installation Instructions

### 1. Product introduction

TC-U9AF-CO/Z is very sensitive to detect the carbon monoxide concentrations. When the gas concentration to achieve a certain standard. The detector will sound and light alarm. And transmit the alarm signal to the alarm center at the same time. This detector, with voice broadcast, ZigBee report, temperature mutation alarm, LCD display concentration and other functions, and you can touch the button to set the alarm concentration.

Its stability, long lifespan, low consumption, wall-mounted installation, elegant in design, 360 degree full detection. Easy installation, safe and reliable. Commonly used in household residential, real estate and villas, hotels, apartments some of existence of combustible locations.

### 2. Specification

Parameter	Index	Remarks
Working Voltage	DC6V(3pcsCR2450 battery)	
Working Current	Monitor current: $\leq 20\mu\text{A}$ Alarm current: $\leq 180\text{mA}@_{\text{max}}$	
Test Gas	Carbon monoxide( CO )	{ 50,75,100,150,200,300}ppm options
Alarm Concentration	150ppm(default)	{30,35,40,45,50,55,60} $^{\circ}\text{C}$ options
Alarm Temperature	50 $^{\circ}\text{C}$ (default)	{0,40,45,50,55,60,65,70,75,80,85,90}%RH options
Alarm Humidity	0%RH(default off)	
Concentration Display Range	0~999ppm	
Temperature Display Range	0~60 $^{\circ}\text{C}$	
Humidity Display Range	30%RH~100%RH	
Network Protocol	ZigbeeIEEE802.15.4	
Wireless Emitting Frequency	2.4GHZ	
Working Environment	temperature:- 10 $^{\circ}\text{C}$ ~50 $^{\circ}\text{C}$ humidity:15%-95%RH (No condensation)	



### 3. Function Description

1. LCD display concentration: 0PPM is displayed when CO concentration is less than 30PPM.
2. By touching the button to set the CO alarm concentration, alarm temperature and alarm humidity: Open the display, trigger the button again to the relevant function.
3. Sudden temperature alarm: normal standby, when detecting that room temperature continuously changes more than 3 $^{\circ}\text{C}$ , it will trigger the detector alarm.
4. Alarm LCD screen after 30s no operation, automatically shut down.

### 4. Network Settings

1. Adjust the gateway to the access mode.
2. Press the key KEY3 briefly, the detector indicator light will flash, when the network is successful, the indicator light will be on for 2 seconds;
3. If network can not be normal, long press on the code key for 10 seconds, the indicator light will be on for 2 seconds, then release the key and press the code key again.

### 5. Key Function Description

Key	Operation Status	Function	Parameter settings	Remarks
KEY1(Down key)	Press once or release for one second	Manually test alarm		Voice prompt "It is about to proceed alarm test, do not panic"
	Step 1: Press and hold for 3 seconds	Set the alarm concentration	{50,75,100,150,200,300}	Increase: Release KEY1 once Reduce: Release KEY2 once
	Step 2: Press and hold for 3 seconds	Set the alarm temperature	{ 30,35,40,45,50,55,60}	
	Step 3: Press and hold for 3 seconds	Set the alarm humidity	{0(OFF),40,45,50,55,60,65,70,75,80,85,90}	
	Step 4: Press and hold for 3 seconds	Settings saved successfully		You must have this action to save the settings.
KEY1+KEY2	long press 5 seconds at the meantime	The system is about to reset		
KEY3(Key on the left side of the hole)	The code key	ZigBee only		Enroll/Delete

Note: ① Under standby mode, long press KEY1 or KEY2 and light display;

② After entering the menu, no operation for 15 seconds, which will exit the menu setting.

## 6. LED and Voice Message

LCD backlight	Often off	A key is triggered, or the alarm is automatically turned on.
Voice broadcast	Power-on	Welcome to use the carbon monoxide gas detector.
	Alarm	Check the carbon monoxide leak, please review.
	Fault	System self-test do not pass!
	Test	It is about to proceed alarm test, do not panic
LCD display "E00"	Power-on	The product is not calibrated
LCD display "E01"	Power-on	Sensor failure
The red LED flashes	Alarm	
The blue LED flashes	Enroll/Delete	

## 7. Installation

1. Select the appropriate installation location:  
Because the proportion of CO is lighter than air, the installation location should be 0.3-1.0 meters below the ceiling.
2. Installation:  
Install the product on the wall with the accessory screws (or on the desktop).

*Note: Do not install the alarm device in the place of larger fumes and steam.  
And do not install in the place of the exhaust fan, door and window side  
and larger bathroom water vapor .*



## 8. Alarm Treatment

When the combustible gas concentration in the air over to or exceed to the alarm preset concentration, detector continue to alarm. You should make below treatment.

1. Closed the pipeline valve.
2. Open the window to make indoor air circulation.
3. Blank off all the fire source, cut off all the commodities can produce sparks.
4. Do not use the switch or power source.
5. Check the gas leak and notify related department and specialized people.

## 9. Maintenance

Use the carbon monoxide gas detector for a long time, and the gas convection window will have some oil adhesion, which affects the sensitivity of air. It is recommended that the user clean the gas convection window with brush mixed a small amount of detergent every three months (or depending on the pollution situation). Do not allow the clean out fluid to enter the machine body. After cleaning, test the product again.

## 10. Notice

1. It will occur false alarm when the circuit is instability.
2. Please make the product maintenance according to the manual indicated.
3. It must make the test working every half year. Please maintain or change if it do not work.
4. It can not make everything highly secure, only can reduce the accident occurs. Please use this product in proper way, raise vigilance in daily life and enforce the safety precaution consciousness.