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1. Product Description
The SL-DC03 household WiFi carbon monoxide Alarm (detector) can detect carbon monoxide gas leakage, prevent the damage caused by the leakage, it adopts high-stability electrochemical gas sensor, with characteristics of stability, minor sensitivity drift etc. The detector flashes red with alarm sound when the alarm detects a carbon monoxide gas leakage and reaches the alarm condition set by the alarm. This detector is suitable for installing in residential houses with potential CO gas occurrence.

- 2. Products Characteristics**
- Electrochemical Sensor
 - Temperature Compensation
 - Battery Low Voltage Alarming
 - Automatic Detection of Sensor Faults
 - Anti-reverse and anti-leakage function of battery, more safe

3. Technical Parameter

Power Supply	DC3V (CR123A)
Standard	EN 50291-1:2018+AC:2021

Sensor Life	10 years
Battery Life	5 years (typical value)
Wireless Protocol	WiFi
Frequency Range	2412 - 2472 GHz
Versions	802.11 b/g/n
RF Conducted Power	11b: 16 dBm 11g: 15 dBm 11n: 14 dBm
Sensor Type	Electrochemical
Standby Current	< 20uA
Alarm Sound	≥85dB@3m
Alarming Status	when CO concentration is 30ppm, no alarm before 120 minutes elapse when CO concentration is 50 ppm, alarm within 60-90 minutes. when CO concentration is 100 ppm, alarm within 10-40 minutes. when CO concentration is 300 ppm, alarm within 3 minutes.
Operating Temperature	-10°C - +40 °C
Operating Humidity	≤ 95%

Installation Mode	fastened by screw or 3M glue
Size	86.5 mm * 86.5 mm * 30.5 mm

4. Operating Instruction
4.1 Mode Declaration

LCD Display content	meaning	Phenomenon description
	Product preheating	LCD will display countdown for 120 seconds, the green indicator light flashes per 2 seconds
	Normal mode	green indicator light flashes once per 40 seconds
	Alarm mode	the buzzer sounds 4 times continuously. Red lights flashes. At the same time, the LCD screen displays the real-time concentration

	Overrange	Carbon monoxide levels are out of range
	Test mode	LCD display "000ppm", the indicator blinks red, green, yellow and red, the buzzer buzzes
	Sensor fault	The yellow indicator light flashes twice per 40 seconds with buzzer buzzes twice when there is fault, LCD displays "Err". Press the test button and a fault prompt will appear immediately
	Battery low voltage	The yellow indicator light flashes once per 40 seconds with buzzer buzzes once when low battery voltage, LCD displays blank battery level, need to replace the battery at once

	End-of-life product	LCD displays "End", yellow indicator light is on all the time, buzzer buzzes 3 times per 60 seconds, that means the device reach the end of the service life and cannot operate normally
	WiFi wireless matching mode	Press long press the test button for more than 5 seconds to enter this mode, and the red indicator blinks
	WiFi wireless matching successful	The product WiFi wireless network connection is successful

1) When detect the carbon monoxide concentration exceed 30 PPM, LCD display real-time concentration.
When the carbon monoxide concentration reaches 50ppm, the alarm will alarm within 60-90 minutes.
When the carbon monoxide concentration reaches 100ppm, the alarm will alarm within 10-40 minutes.

When the carbon monoxide concentration reaches 300ppm, the alarm will alarm within 3 minutes.
Once the product alarms, the alarm can only stop when the carbon monoxide concentration is below 30 PPM.
When detect the carbon monoxide concentration exceed 999 PPM, the LCD can only display 999 PPM.
2) You can self-test the product by pressing the test button, press the button and enter the test mode normally, indicating that the product is normal and the product needs to self-test once a week.
3) This product does not have mute function, including concentration alarm mute function, fault alarm mute function, low voltage alarm mute function, etc.

4.2 Wireless Connection Instruction
1) After successful power-on (beep once after powered successfully), enter the preheating mode (120 seconds countdown). After the countdown, enter the standby mode and long press the test button for more than 5 seconds, and the red LED indicator quickly flashes (EZ Mode) consecutively, then it means the alarm is under WiFi wireless matching mode; If you want to enter the "AP" mode, just press and hold the test button again. When the red LED indicator flashes slowly, it indicates entry.

2) Open Tuya Smart or Smart Life app, click on the "+" icon under "My Home" menu or directly click on the "Add Device" to add your first device.
3) Please choose Security Sensor- Alarm apparatus- Alarm apparatus (WiFi) to enter WiFi networking interface.
4) Input WiFi account name and password, select "EZ mode" when the indicator flashes quickly, select "AP mode" when the indicator flashes slowly, and then click "next".
5) When networking is completed, the indicator will stop quick flashing, the device will appear on "My Home" interface. Meanwhile, the alarm can be paired with phone by bluetooth, just need to open the bluetooth on the phone. After the alarm get into pairing mode, the APP will automatically scan the device for easy pairing. The bluetooth can only be used for pairing.

Note:
Under networking mode, the red indicator flashes continuously and last for max 1 minute. If networking failed, users need to enter networking mode again and repeat above steps.
After powered successfully, the device can only get into pairing mode within 2 hours. It needs to be powered again for operation if the time exceeds 2 hours. It is recommended to press the test button after

removing the battery and then powering on the battery, A beep sound after successful powered again, so as to ensure that the product can be get into the pairing mode.

If the wireless pairing fails:

- 1) Please first confirm whether the wireless network is 2.4g and working properly, and ensure that the product is covered by the wireless network, and then start the wireless pairing operation.
- 2) If the wireless pairing continues to fail, please find the "Me- FAQ & Feedback" in the APP to see the solution.
- 3) If the problem still cannot be solved, please contact the distributor or our company.

5. Installation Instruction

5.1 Installation Process

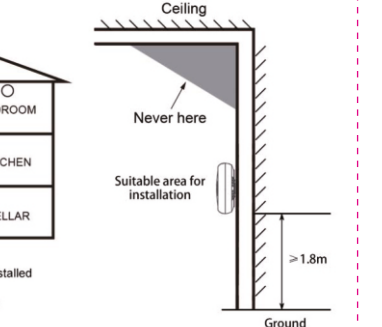
- 1) Slide the mounting plate down. Then remove the transparent plastic film on the battery, and insert the batteries, observing polarity.
- 2) Drill two 4mm diameter holes in the wall with a spacing of 46mm, Then insert two plastic plugs into the holes, Align the hanging plate hole in the package with the plastic plug hole, Finally fix it with screws until the screw heads fit snugly against the siding.



- 3) Press the Self-test button, guarantee the device can alarm with sound and light.
- 4) Align the holes on the back of the device to the mounting plate, and install it.

5.2 Recommended Installation Location

- 1) The apparatus should be installed by a competent person, and it can only be mounted on walls.
- 2) Please guarantee that all the sleeping area can hear the alarming sound, if there is only 1 piece of carbon monoxide detector, please install closely to the bedroom, not in the basement. Installation height is at least 1.8m above the ground.
- 3) Please install the position that out of reach of the children. The children operate the carbon monoxide detector is NOT allowed in any cases.



- 4) Recommend to install 1 piece of detector each floor in multi-storey residential buildings. Do not install in the places with poor ventilation, such as vaulted ceiling or the top of mountain type proof. Meanwhile, do not install in the places with strong wind, close to the ventilator scoop or opened door/window.
- 5) Keep 1-3m away from all the fuel, combustion appliances, put on the eye level to better monitor the red, green, yellow indicator lights.

- 6) Keep carbon monoxide detector away from the dusty, dirty or greasy areas, such as kitchen, garage and furnace chamber, the dust, grease and household chemicals will affect the sensor. Substances that may affect the equipment are generally as follows: Methane, propane, isobutene, isopropanol, ethylene, benzene, toluene, ethyl acetate, hydrogen sulfide, sulfur dioxides, alcohol-based products, paints, thinner, solvents, adhesives, hair sprays, aftershaves, perfumes, and some cleaning agents.
- 7) Keep away from humid areas, such as bathroom. Avoid spraying aerosols near carbon monoxide detector. Do not install in the space where the temperature is lower than -10°C or higher than 40°C. Do not install at the back of the curtain or furniture. The carbon monoxide gas must be able to reach the sensor, to guarantee detect correctly.
- 8) The installation of the CO alarm device should not be used as a substitute for proper installation, use and maintenance of fuel burning appliances including appropriate ventilation and exhaust systems.

6. Safety Knowledge about Carbon Monoxide

6.1 Carbon Monoxide Description

- 1) After carbon monoxide gas enters the body, it will combine with the

hemoglobin cannot combine with oxygen, resulting in tissue hypoxia, death by suffocation. Carbon monoxide is toxic, colorless, odorless, tasteless gas, so it is easy to ignore and cause poisoning.

2) Carbon monoxide toxic symptom

Mild: mild headache, weakness, chest tightness

Serious: severe headache, nausea, impaired limb movement, irritability, confusion, impaired visual acuity, muscle weakness, dizziness.

Extremely Serious: convulsions, unconsciousness, coma, collapse, death.

6.2 Carbon Monoxide Safety Protection

- 1) Open the window often, maintain indoor ventilation, install the carbon monoxide detector in proper position to real-time detect the carbon monoxide concentration, remind people to leave the dangerous space when alarming, to prevent carbon monoxide poisoning.
- 2) Places where carbon monoxide easy exist. Fuel Combustion appliance, such as: portable heater, gas or wood burning fireplace, gas stove, gas dryer. Damaged or inadequately ventilated area, such as corrode or disconnect water heater ducts, leakage tube chimney or flue or broken heat exchanger, or blocked chimney opening. Appliance with wrong usage, such as BBQ in enclosed areas.

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6.3 Carbon Monoxide Damage

Carbon monoxide has an anesthetic effect on the human central nervous system, severe cases cause suffocation or death. Carbon monoxide inhalation concentration, time and symptom as follows:

50ppm	maximum concentration for healthy adult can tolerate in 8 hours
200ppm	Mild headache, weak in 2-3 hours
400ppm	Forehead pain within 1-2 hours, threaten life after 3 hours.
800ppm	dizziness, nausea, cramps within 45 minutes, loss feeling within 2 hours, die in 2-3 hours
1600ppm	headache, dizziness, nausea within 20 minutes, die in 1 hour
3200ppm	headache, dizziness, nausea within 5-10 minutes, die in 25-30 minutes
6400ppm	headache, dizziness, nausea within 1-2 minutes, die in 10-15 minutes
12800ppm	die in 1-3 minutes

When the carbon monoxide gas concentration exceed alarming value, the detector will automatically enter continuous alarm status, we should do by below steps:

- 1) Close the pipe valve immediately
- 2) Open the window immediately, maintain indoor ventilation.
- 3) Inform relevant departments and professionals to deal in time, if it is false alarming after checking, the user need to check whether the detector is installed in proper position.
- 4) Never ignore any alarm. If there is any question as to the cause of an alarm it should be assumed that the alarm is due to dangerous levels of carbon monoxide and the dwelling should be evacuated. See section 4 Operating Instruction for more information on section 6.4 Alarming Processing IF respond to an alarm. Failure to respond can result in injury or death .

6.5 Warning

- 1) Do not use heavy objects to suppress the alarm, do not drop the alarm at high altitude.
- 2) This detector can not be used as smoke alarm.
- 3) Do not put in humid places.
- 4) Put in the places out of children's reach.
- 5) Do not put in the places of high voltage and strong magnetic field.

6) It's forbidden for the user to disassemble the CO alarm privately which may cause damage to the CO alarm.

7) This apparatus is designed to protect individuals from the acute effects of carbon monoxide exposure. It will not fully safeguard individuals with specific medical conditions. If in doubt consult a medical practitioner.

7. Troubleshooting

- 1) The yellow LED light flash once per 40 seconds with buzzer buzzes once when low battery voltage, need to replace the battery at once.
- 2) The yellow life indicator light is always on, and the buzzer beeps three times every 60s. At this time, the equipment can no longer operate normally, and the product life is terminated. Please replace the alarm with a new one.
- 3) The yellow indicator light flash twice per 40 seconds with buzzer buzzes twice, means sensor fault, please contact dealer or our company.
- 4) The yellow indicator light flash four per 40 seconds with buzzer buzzes four, means network malfunction, please Check whether the router work properly, Check whether the WiFi signal is stable at the location of the device, If you still have problems, please contact the distributor or our company.
- 5) Press testing button, no signs for the detector, please confirm whether the battery install correctly, if the battery install correctly and no signs for the detector, please contact dealer or our company.

8. Contact Us

Thanks for choosing our products, we provide the warranty according to the national laws and regulations, if the products break down within the warranty period, or you have any questions during the products installation and usage, please contact us in time, we will provide timely and extremely service for you.

Hereby Spacetronek Sp. z o.o. declares under its sole responsibility that the product SL-DC03 is in conformity with following directives: RED (2014/53/EU), RoHS (2011/65/EU + 2015/863/EU). Full document (declaration of conformity) is available for download from the website www.spacetronek.store.

The WEEE symbol (the crossed-out wheeled bin) using indicates that this product is not home waste. Appropriate waste management aids in avoiding consequences which are harmful for people and environment and result from dangerous materials used in the device, as well as improper storage and processing. Segregated household waste collection aids recycle materials and components of which the device was made. In order to get detailed information about recycling this product please contact your retailer or a local authority.

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