

Buzzer 1

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.... 2 LCD display

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Indicator light

····· 4 Test button

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1. Product Description The SA-DC03 household standalone carbon monoxide detector (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

- Battery Low Voltage Alarming

## 3. Technical Parameter

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

### Battery Life 10 years (typical value) Sensor Type Electrochemical Standby Current < 20 uA Alarm Current Alarm Sound > 85 dB@3m when CO concentration is 30ppm.

10 years

no alarm before 120 minutes elapse

when CO concentration is 50ppm.

when CO concentration is 100ppm.

when CO concentration is 300ppm.

alarm within 60-90minutes.

alarm within 10-40minutes.

fastened by screw or 3M glue

86.5 mm \* 86.5 mm \* 30.5 mm

alarm within 3 minutes.

-10 °C - +40 °C

Sensor Life

Alarming Status

Operating Temperature

Operating Humidity

Installation Mode

Electrochemical Sensor

Temperature Compensation

Automatic Detection of Sensor Faults

Anti-reverse and anti-leakage function of battery, more safe

Power Supply	DC3V ( CR123A )
Standard	EN 50291-1:2018+AC:20

# 4. Operating Instruction

LCD Display content	meaning	Phenomenon description
150 co	Product preheating	LCD will display countdown for 120seconds, the green indicator light flashes per 2 seconds
CO	Normal mode	green indicator light flashes once per 40 seconds
CO IOO ppm	Alarm mode	the buzzer sounds 4 times continuously. Red light flashes. At the same time, the LCD screen displays the real-time concentration
co 999	Overrange	Carbon monoxide level is out of range

LCD display "000ppm",the indicator blinks red green ve 000 Test mode low and red, the buzzer The vellow indicator light flashes twice per 40 seconds with buzzer buzzes twice when CO there is fault, LCD display "Err" Sensor fault Press the self-check button and a fault prompt will appear The vellow indicator light flashes once per 40 seconds with buzzer buzzes once when Battery low voltage low battery voltage, LCD to replace the battery at once LCD display "End", yellow indicator light is on all the time buzzer buzzes 3 times per 60 seconds, that means the End-of-life produc device reaches the end of the service life and cannot operate

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1) When the carbon monoxide concentration exceeds 30 PPM, LCD displays 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 the carbon monoxide concentration exceeds 999 PPM, the

LCD can only display 999 PPM.

2) You can self-test the product by pressing the test button.

Pressing the button and entering the test mode normally indicates that the product is normal. The product needs to be tested once a

This product does not have mute function, including concentration

mute function, etc.

with sound and light. alarm mute function, fault alarm mute function, low voltage alarm

5.1 Installation Process

5. Installation Instruction

snugly against the siding.

1) Slide the mounting plate down,remove the

transparent plastic film on the battery, and then insert the batteries while observing polarity. 2) Drill two 4 mm diameter holes in the wall with

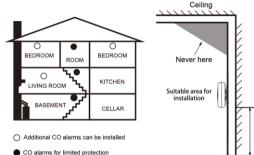
a spacing of 46 mm, Then insert two plastic plugs into the holes, Align the hanging plate hole in the package with the plastic plug hole, Finally fix it with screws until the screw heads fit



3) Press the Self-test button, guarantee the device can alarm

4) Align the holes on the back of the device to the mounting plate, and

### 5.2 Recommended Installation Location



1) The apparatus should be installed by a competent person,

Installation height is at least 1.8m above the ground.

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.

- 3) Please install in the place out of reach of the children. Children is not allowed to operate the carbon monoxide detector 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, closed to the ventilator scoop or opened door/window.
- 5) Keep the detector 1-3m away from all the fuel, combustion appliances, put it on the eye level for better monitoring the red, green vellow indicator lights.
- 1) After carbon monoxide gas enters the body, it will combine with the 6) Keep carbon monoxide detector away from the dusty, dirty or greasy hemoglobin in the blood to produce carboxyhemoglobin, which leads areas, such as kitchen, garage and furnace chamber, the dust, grease that the hemoglobin cannot combine with oxygen, resulting in tissue and household chemicals will affect the sensor. Substances that may hypoxia, death by suffocation. Carbon monoxide is toxic, colorless, affect the equipment are general as follows:

odorless, tasteless gas, so it is easy to ignore and cause poisoning Methane, propane, isobutene, isopropanol, ethylene, benzene, 2) Carbon monoxide toxic symptom toluene, ethyl acetate, hydrogen sulfide, sulfur dioxides, alcohol-base Mild: mild headache, weakness, chest tightness products, paints, thinner, solvents, adhesives, hair sprays, aftershaves Serious: severe headache, nausea, impaired limb movement.

perfumes, and some cleaning agents.

irritability, confusion, impaired visual acuity, muscle weakness. 7) Keep the detector away from humid areas, such as bathroom. Avoid spraying aerosols near carbon monoxide detector. Do not install in the

Extremely Serious: convulsions, unconsciousness, coma, collapse,

6.2 Carbon Monoxide Safety Protection

1) Open the window often, maintain indoor ventilation, install the carbon monoxide detector in proper position for real-time monitoring of the carbon monoxide concentration, remind people to leave the dangerous space when alarming to prevent them from carbon monoxide poisoning. 2) Places where carbon monoxide easily 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 disconnected water heater ducts, leaked tube chimney or flue ,broken heat exchanger, blocked chimney , or opening Appliance with wrong usage, such as BBQ in enclosed areas.

## 6.3 Carbon Monoxide Damage

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

> maximum concentration for healthy adult can tolerate in 8 hours Mild headache, weak in 2-3 hours

2) Open the window immediately, maintain indoor ventilation. 3) Inform relevant departments and professionals to deal in time, if it is

When the carbon monoxide gas concentration exceeds alarming value,

the detector will automatically enter continuous alarming status, we

Forehead pain within 1-2 hours, threaten life after

dizziness, nausea, cramps within 45 minutes, loss

headache, dizziness, nausea within 20 minutes.

headache dizziness nausea within 5-10 minutes

headache, dizziness, nausea within 1-2 minutes.

feeling within 2 hours, die in 2-3 hours

die in 1 hour

die in 25-30 minutes

die in 10-15 minutes

die in 1-3 minutes

6.4 Alarming Processing

should do by below steps:

1) Close the pipe valve immediately.

false alarming after checking, the user needs 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 triggered by dangerou 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 from high altitude.
- ) This detector can not be used as smoke alarm.
- 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
- 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, please consult a medical practitioner.

## 1) When the yellow LED light flashes once per 40 seconds with

7. Troubleshooting

- buzzer Buzzing once when low battery voltage, the battery needs to be replaced at once. 2) The yellow life indicator light is always on, and the buzzerbeeps
- 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 flashes twice per 40 seconds with buzzer buzzing twice. It means sensor fault .Please contact dealer or our company.
- 4) Press testing button, no signs for the detector, please confirm whether the battery was installed correctly, if the battery was installed correctly and no signs for the detector, please contact dealer or our company.

8. Contact Us

Made in P.R.C. for:

Spacetronik sp. z o.o.

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 Spacetronik Sp. z o.o. declares under its sole responsibility that the product SA-DC03 is in conformity with following directives: EMC (2014/30/UE), RoHS (2011/65/UE + 2015/863/UE). Full document (declaration of conformity) is available for download from the website www.spacetronik.eu.

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

C RoHS







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

detection can be done correctly.

6.1 Carbon Monoxide Description

monoxide gas must be able to reach the sensor for guaranteeing

8) The installation of the CO alarm device should not be used as a

appliances including appropriate ventilation and exhaust systems.

6. Safety Knowledge about Carbon Monoxide

substitute for proper installation, use and maintenance of fuel burning

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