

Read the instructions carefully before using this device



## Ozone detector



### User manual

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## This product comply with the following national standards:

- GB3836.1- -2010 "Explosive Environment Part 1: General Requirements for Equipment"
- GB3836.4--2010 "Explosive environment Part 4: Equipment protected by intrinsically safe" I "JJG1077-2012 "Ozone Gas Analyzer Verification Regulations"

## Technical index


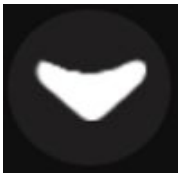
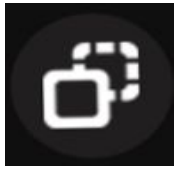

Detect gas	ozone (O3)
Detection range	0~10.00ppm
Duplicate value	≤2%
Zero drift	≤±1ppm
Range drift	≤±2ppm
Alarm action value	3/6ppm
Response time	Diffusion ≤60S
Insulation resistance	≥20MΩ
Alarm function	Sound, light, vibration
working environment:	Temperature -10 °C -50 °C; humidity <95% RH without condensation
Operating Voltage:	DC3.7V (Lithium battery capacity 3000mAh)
Explosion-proof mark:	Ex ib IIB T3 Gb
Charging time:	6h-8h
Standby time:	Continuous for more than 8h

## Inside the box

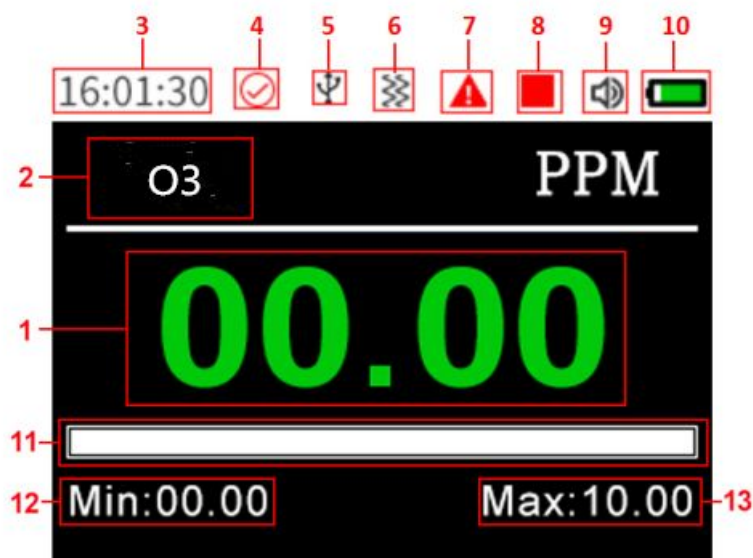
- One suitcase (contains detector equipment, USB data cable, standard gas hood, certificate)

## Function and operation instructions

### Key Description:

Button	name	Explanation
	Increase build	Main interface: long press to turn on the buzzer alarm; Menu bar interface: short press, the cursor moves to the previous icon; Input value interface: short press to increase the current value; long press to quickly increase the current value.
	Decrease key	Main interface: long press to turn off the buzzer alarm; Menu bar interface: short press, the cursor moves to the next icon; Input value interface: short press to decrease the current value; long press to quickly decrease the current value.
	Cycle key	Password, time setting interface: the cursor moves to the next number; Menu interface: short press, the cursor moves to the next icon, Main interface: short press to quickly check the range and alarm limit; Long press to quickly turn on or off the data storage function. Any interface: Long press to return to the main interface
	Enter	Power off state: Long press 2S, the device enters the power on state; Main interface status: long press 4S, the device shuts down, short press to enter the password interface Menu, input value interface: After the cursor determines the option, short press to confirm the current option.

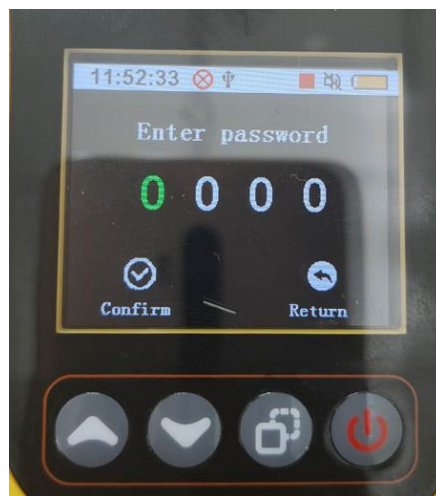
## Introduction to the main interface



number	name	Explanation
1	Real-time value	Display the current actual gas concentration value
2	Gas name	Display gas name
3	time	Display the current time (manual adjustment)
4	Call the police	As shown in the figure, the total alarm sound, light and vibration are turned on (the buzzer alarm can be turned off separately). When displayed, it means that the total alarm is turned off
5	USB socket	After plugging in the USB, this logo is displayed
6	shock	This symbol appears to indicate that the device is in a vibration state
7	An alarm occurred	This sign appears to indicate that the equipment is in alarm state
8	Storage status	Display ■ indicates that the device is not in the state of storing data. When ► is displayed, it indicates that the device is in the state of storing data
9	buzzer	As shown in the figure, the buzzer is normally enabled. When the buzzer is disabled, it displays: When the alarm is turned off, the buzzer cannot be activated
10	Power	Display the remaining battery power
11	Proportion	The proportion of current gas concentration to the range of this sensor
12	Minimum value	Minimum range
13	Maximum	Maximum range

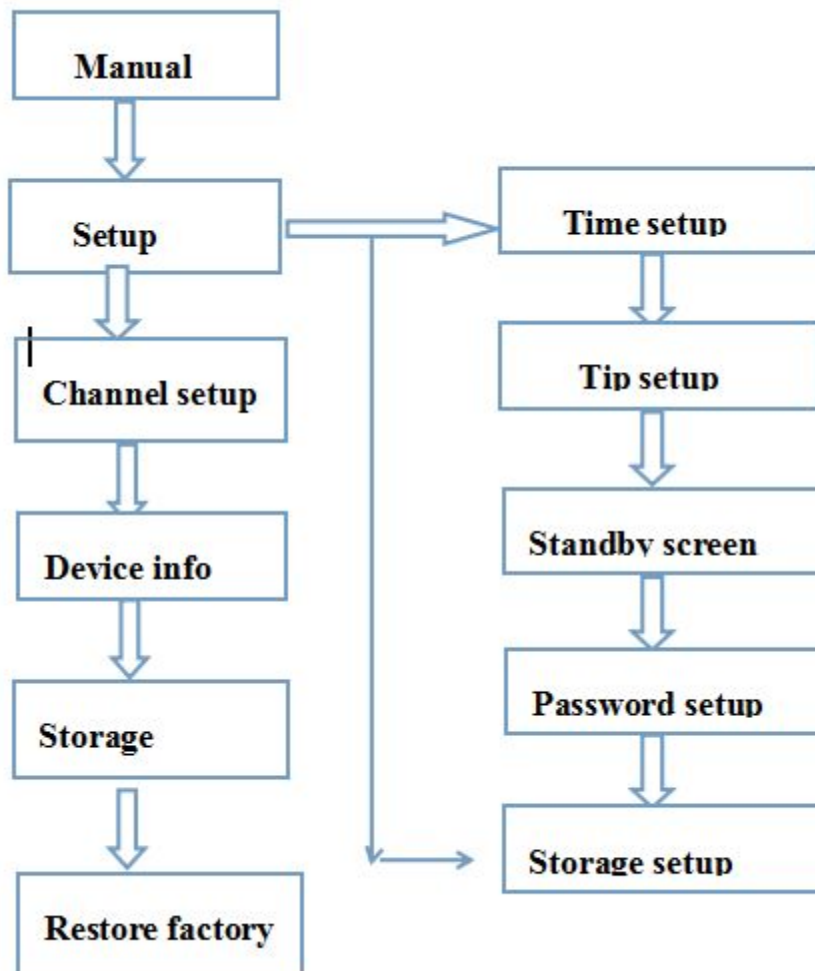
## Instructions

1. In the shutdown state, long press the 2S confirmation key, the device detects whether the buzzer, flash, vibration is normal, and the device enters the main interface
2. Short press the confirmation key on the main page to enter the password interface, the password defaults to 0000, press the cycle key to move the cursor to confirmation, and click the confirmation key to enter the menu interface. As shown.



## System Settings

- Scroll to the desired icon and confirm to enter the corresponding menu

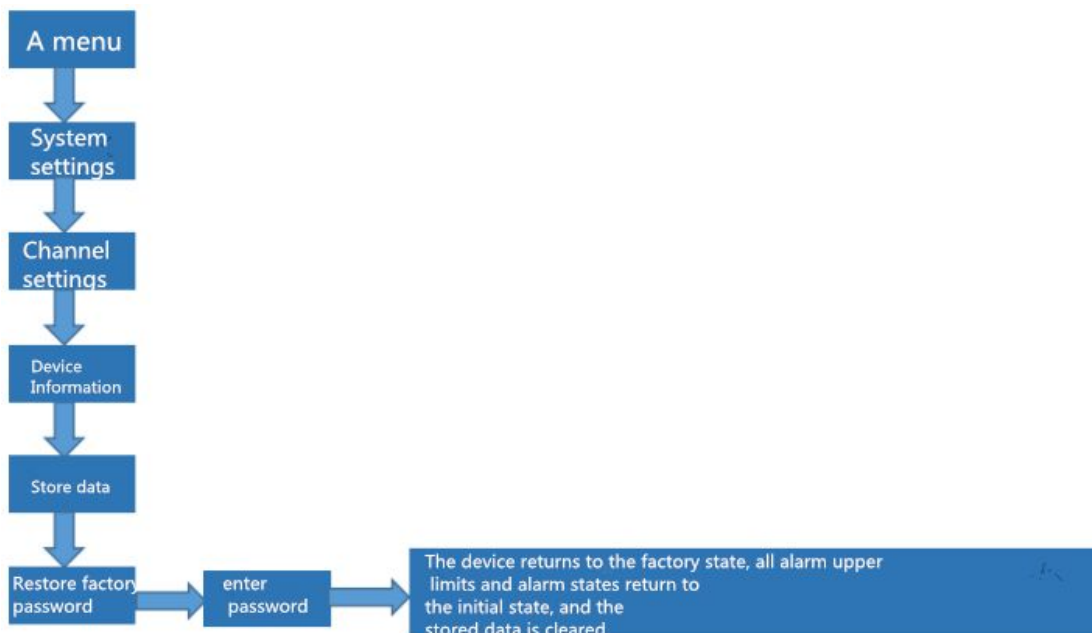


## Data storing

- Note: The storage settings need to be enabled in the system settings. The specific historical data cannot be viewed in the device, you need to use the configuration software to read the data. The device can be viewed: gas type, current value, range, maximum value, minimum value, start storage time, end storage time and the number of storage.

Store data	
O3 PPM <b>0.03</b>	Range : 0.00-10.00 maximum : 9.78 Minimal : 0.00
Start : 2020/04/11 16:10:11	
<b>Total entry : 000181</b>	
Start : 2020/04/11 16:20:55	

## Factory settings reset



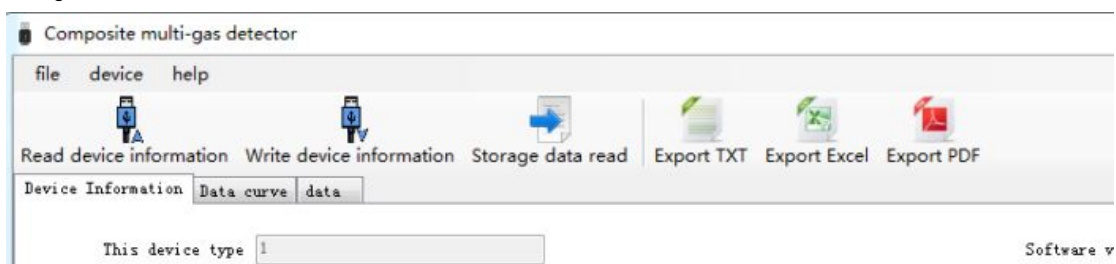
## Instructions for configuring the software

- After the software is installed, it will be generated on the desktop“”Icon, double click to open the software.

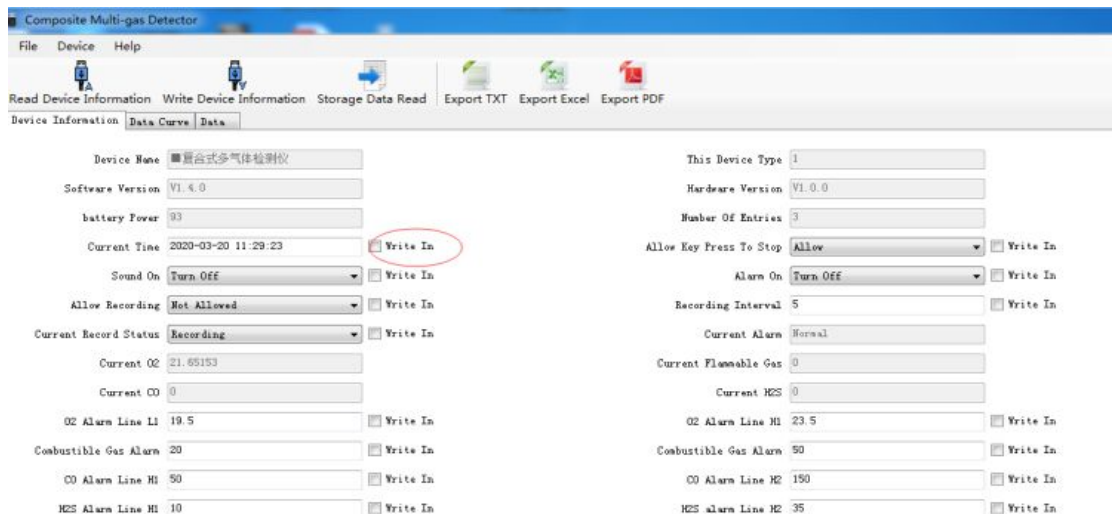


## Set detection parameters

- Connect the device to the computer via a USB data cable, click "Read Device Information" on the toolbar, and click "Write Device Information" after editing the device parameters to write the parameters to the device.



- It should be noted that after the modified parameters, check the modified parameters, and then click to write the device information, the parameter will be written to the device. This function is to facilitate the modification of other parameters by mistake when modifying individual parameters. Set.



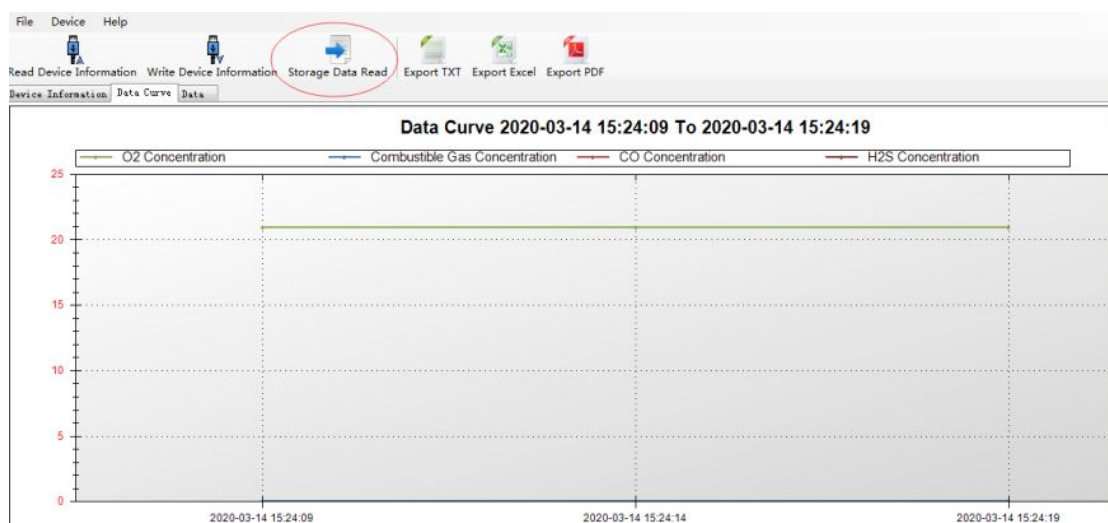
- **Device name:** factory default, which can be checked and cannot be modified.
- **Equipment type:** refers to the gas combination type of the detector.
- **Battery level:** the current remaining capacity of the detector.
- **Number of stored items:** the number of records currently stored in the detector (total number of records for four gases).
- **Device time:** You can check the clock time indicated by the detector to determine whether you need to adjust the time.



- **Allow button to stop the report:** if you choose to allow, you can long press the decrease button to quickly turn off the alarm sound when the detector generates an alarm, if you choose not to allow, you can not quickly turn off the alarm sound.
- **Sound On:** Set the alarm sound of the detector to be turned on or off.
- **Alarm on:** Set the sound, light and vibration alarm of the detector to be turned on or off.
- **Allow recording:** Set the storage function of the detector to be turned on or off.
- **Recording interval:** Set the recording interval time of the detector (default 5 seconds).
- **Current recording status:** whether the device is in recording status.
- **Current alarm information:** whether it is currently in the alarm state.
- **Current ozone concentration:** the current concentration of ozone gas.
- 
- **Ozone alarm line L1:** Set the ozone alarm low limit.
- **Ozone alarm line H1:** Set the ozone alarm high limit.

## Import Data

- Open the configuration software of the multi-gas detector, and then connect the recorder to the computer via a USB cable. Click "Save Data Read" to import the data stored in the detector into the configuration software.
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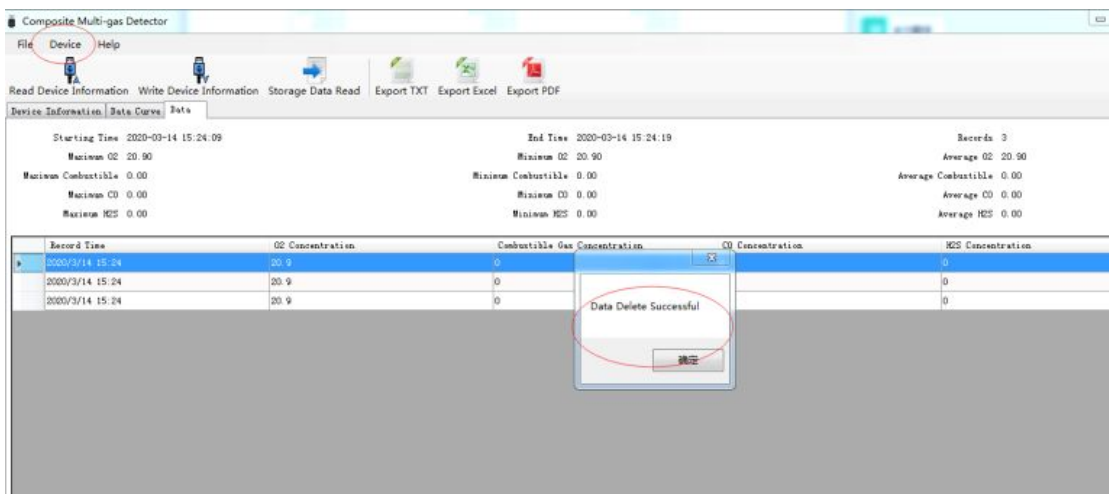
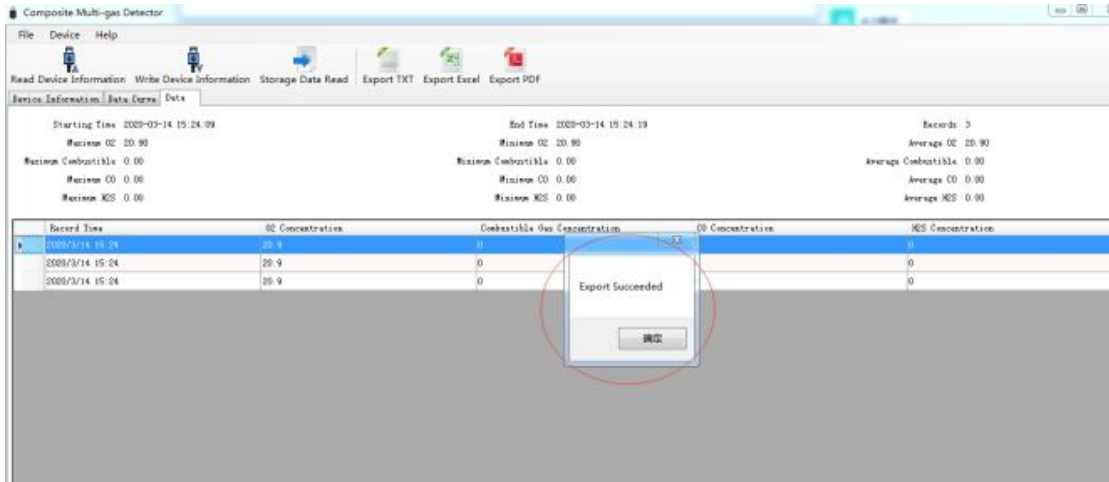


- Click the data to view the stored historical data in time.

Record Time	O2 Concentration	Combustible Gas Concentration	CO Concentration	H2S Concentration
2020/3/14 15:24	20.9	0	0	0
2020/3/14 15:24	20.9	0	0	0
2020/3/14 15:24	20.9	0	0	0

## Export data

- Select the export format (TXT / XLS / PDF) on the toolbar to save the data to the specified path (take PDF as an example), indicating that the export is successful.



## Clear device data

- Click "Device" on the toolbar, and click "Clear Device Storage Data" in the drop-down menu to clear the device data. After the removal, the software prompts "Data Clear Successful".

## Charging function description

- When the power is less than 10%, the device will give an alarm (acoustic and light vibration) every two minutes until the device is turned off.
- When the device is off, connect the charger to the portable detector and the other end to the AC220V AC power supply. After the detector is fully charged, the power display is full and can be used normally.

## Precautions

1. Prevent the machine from falling from a high place or subject to severe vibration
2. In a high-concentration gas environment, the machine may not be used normally
3. Please use the detector strictly in accordance with the instructions, otherwise it may lead to inaccurate test results or damage to the product
4. This product cannot be used or stored in an environment containing corrosive gas
5. If you have not used the device for a long time, please warm it up and aging for 10 minutes before starting it again.
6. In order to ensure the detection accuracy, the machine should be calibrated regularly, the verification period should not exceed one year
7. In an explosive gas environment, the battery pack cannot be disassembled or replaced, nor can the battery pack be charged.

## Common faults and solutions

Common faults and solutions	Possible cause of failure	Processing method
Can not boot	Low voltage	Please charge in time
	Crash	Please contact dealer or manufacturer for repair
	circuit failure	Please contact dealer or manufacturer for repair
No gas detection	circuit failure	Please contact dealer or manufacturer for repair
Inaccurate display	Sensor overdue	Please contact dealer or manufacturer
	Long-term uncalibrated	Replace the sensor
Wrong time display	The battery is completely exhausted	Please calibrate in time
	Strong electromagnetic interference	Replace the RTC battery and reset the time
Zero calibration function is not available	Excessive sensor drift	Reset time
Instrument normal detection interface Non-zero (except oxygen)	Sensor drift	Calibrate or replace the sensor in time
When the instrument is tested normally The interface displays full scale	Sensor failure	Perform zero calibration

CTC

CERTIFICATE

CTC

## Certificate of Registration

Certificate No.:446Q19090925324

Awarded to  
Shandong Renke Measurement & Control Technology Co., Ltd.

Organization Code No./Unified Social Code:91370102307247120J

Registered address: 2-301, Building 1, Gaoxin Business Port, 67-1 Huayang Road, Lixia District, Jinan.

Audit address: 1806A, West Block, Building 8, No. 2000, Shuntai Square, No. 2000 Shunhua Road, High-tech Industrial Development Zone, Jinan City, Shandong Province; Unit 401, Unit 1, Building 15, Strategic New Industrial Base, No. 2966 Chunhui Road, High-tech Industrial Development Zone, Jinan, Shandong.

Qingdao CTC Inspection & Certification CO.,LTD.(CTC) certify that the Quality Management System of the above organization has been assessed and found to be in accordance with the requirements of the standard:

**GB/T19001-2016/ISO 9001:2015**

### SCOPE OF CERTIFICATION/REGISTRATION

Development of computer software, electronic product technology, development and sales of temperature and humidity transmitter, temperature and humidity sensor, temperature and humidity recorder, water immersion sensor, carbon dioxide transmitter, illumination transmitter technology.  
(Qualifications-based operations requiring qualification permits)

This certificate is made valid when used with certification scopes and the requirements of applicable laws and regulations. These requirements include, but are not limited to, administrative permits, scopes of qualifications and CCC requirements.

Subject to operation conditions in requirements conformity with Quality Management System,  
This Certificate is valid for a period of three years only,

**Date from: Sept.25th,2019 To: Sept.24th,2022**

The effectiveness of this Certificate shall be Validated by periodic surveillance audit of CTC for maintenance.

**The time limit of the certificate is to Sept.20th,2020, please conducting the surveillance or re-certification assessment before Sept.20th,2020.  
If the assessment is overdue, the certificate is invalid.**

Signed for and on behalf of:



CNCA-R-2018-446



The certificate information is validity on: Our company Web: [www.guoyanworld.com](http://www.guoyanworld.com) ; CNCA official web: [cx.cnca.cn](http://cx.cnca.cn)  
QINGDAO CTC INSPECTION & CERTIFICATION CO.,LTD.  
E-mail: [GUOYANGROUP@163.COM](mailto:GUOYANGROUP@163.COM)



SHENZHEN HTT TECHNOLOGY CO., LTD.

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WWW.HTTPRC.COM

## Certificate of Compliance

Certificate No. : HTT181011143E  
Applicant : Shandong Renke Control Technology Co., Ltd.  
Applicant Address : 1806B, 8th Building, Shuntai Plaza, No. 2000, Shunhua Road, Licheng District  
Manufacturer : Shandong Renke Control Technology Co., Ltd.  
Manufacturer Address : 1806B, 8th Building, Shuntai Plaza, No. 2000, Shunhua Road, Licheng District  
Product : Portable ozone detector  
Model No. : RS-MG41-O3-  
Trademark : N/A

The following products have been tested by us with listed standards and found in compliance with the council EMC 2014/30/EU. It is possible to use CE marking to demonstrate the compliance with this EMC.

Test standards:	Report(s) Number	Issued By	Issued Date
EN 55032: 2015+A1:2016 EN 55024: 2010+A1:2015 EN 61000-3-2: 2014 EN 61000-3-3: 2013	HTT181011143ER	HTT	Oct.22,2018

This certificate of conformity is not transferable and based on an evaluation of a sample of the above mentioned product.



Authorized Signer:

*Kevin Yang*  
Kevin Yang/Senior Manager  
SHENZHEN HTT TECHNOLOGY CO., LTD.

Date: Oct.22,2018

TEL: 0755-23595200 FAX: 0755-23595201  
7F, A BUILDING, SMART VALLEY SCIENCE AND TECHNOLOGY INNOVATION PARK,  
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