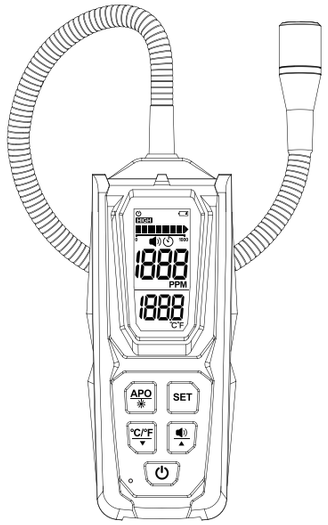
USER'S MANUAL

Halogen detector



⚠ Please refer to the manual before using the product

User Notice

- Please read this manual carefully before using the instrument to ensure optimal performance.
- Do not use the instrument in flammable or explosive environments.
- If you encounter any quality issues with the instrument or have any questions regarding its use. please contact your local distributor or the manufacturer immediately. we will resolve your issues as soon as possible.

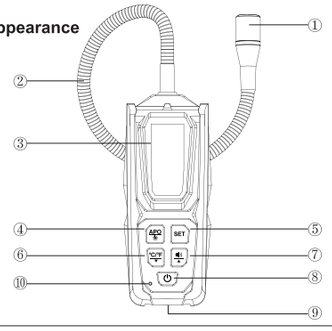
1.Product Overview

The halogen detector is an instrument designed to measure the concentration of halogen gases in the environment. It utilizes an electrochemical sensor that reacts chemically with halogen gases to generate an electrical signal. the intensity of this signal is directly proportional to the concentration of halogen gases. enabling the detection of their concentration. this device is widely used in industrial production. refrigeration equipment installation and maintenance. environmental monitoring. and scientific research experiments.

2.Important Notes

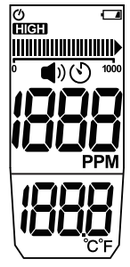
1. This is a gas detector. not a measuring device.
2. Ensure that the sensor grille is free of dirt. debris. and obstructions.
3. Calibrate or perform a gas test on the detector in normal ambient air (20.9% oxygen) without harmful gases.
4. When not in use for an extended period. remove the batteries to prevent corrosion of the instrument due to battery leakage.
5. Do not store or use the instrument in environments with high temperatures. high humidity. flammability. explosivity. acidity. alkalinity. or strong oxidizing gases.
6. Clean and maintain the instrument using a soft cloth and a neutral cleaning agent. avoid using abrasive agents and solvents to prevent corrosion or damage to the instrument.

3.Product Appearance



Symbol	Description
①	Sensor
②	Flexible Probe
③	Display Screen
④	Backlight/Cancel Auto-Off
⑤	Alarm Value Setting
⑥	Temperature Unit Selection/Alarm Value -
⑦	Sound On/Off/Alarm Value +
⑧	Power button
⑨	Type-C charging interface (lithium battery version)
⑩	Charging indicator light (lithium battery version)

4.Display Introduction



Symbol	Description
	Auto-Off
	Low Battery
0 1000	Analog Display
	Speaker
	Preheat Countdown
HIGH	High Alarm
PPM	Concentration Unit
℃	Celsius
℉	Fahrenheit

5.Technical Specifications

Product Name	Halogen detector	
Type	Battery Model	Lithium battery
Detection gas	R22.R32.R134a	√
Show	Ordinary screen	Color screen
Sampling method	Diffusion	√
Range	0 ~ 1000PPM	√
Resolution	1PPM	√
Maximum sensitivity	R22/T134A@0.5oz/year (14g/year)	√
Warm-up calibration time	Countdown 30 seconds	√
Response time	<10 seconds	√
Default alarm value	600ppm	√
Alarm method	Buzzer alarm + screen display + red backlight alarm	√
Automatic shutdown	10 minutes	√
Backlight automatically turns off	3 minutes	None
Working current	About 120mA	√
Operating temperature	0-50℃	√
Operating humidity	≤90%RH	√
Storage environment	- 1 0 ~ 60 ℃ / ≤ 85 %RH	√
Universal tube length	270mm	√
SIze	135× 57 x 29 mm	√
Charging port USB	None	Type-C/5V/1A
Powered by	1.5V × 2 AAA	Built-in lithium battery/ 1000mAh/3.7v
Weight	About 180g (without battery)	About 215 g

6.Button Operation

1.（ ）Power Button: Long press for 2 seconds to turn on the device. short press to turn it off.
2.（°C/°F）Short press to switch between °C and °F. when in the “SET” alarm value setting mode. short press to decrease the value.
3.（APO）Long press for 2 seconds to cancel the auto-off function. the “ ” symbol on the screen will disappear. Press again or restart the device to restore the auto-off function. short press to turn on the backlight. which will automatically turn off after 3 minutes to save power.
4.（ ）Short press to turn the alarm sound on or off. when in the “SET” alarm value setting mode. short press to increase the value.
5.（SET）Short press to enter the alarm value setting mode. press again to save the setting.

7.Calibration

After the device is turned on. it will enter a 30-second countdown for preheating and self-calibration. during self-calibration. keep the device away from gas leakage environments to prevent the leakage gas from affecting the calibration and causing measurement errors. once the calibration is complete. the device is ready for normal measurement.

8.Alarm Value Setting

After the device has completed the 30-second preheat calibration countdown. short press the “SET” button to enter the alarm value setting mode. the default alarm value is 600PPM. Short press the “▲” button to increase the value or the “▼” button to decrease it. press the “SET” button again to save the setting. long press the “SET” button for 2 seconds to restore the default alarm value of 600PPM.

9.Alarm Conditions and Operation Mode

When the device is turned on and enters the normal measurement state. slowly bring the probe close to the environment to be measured. If halogen gases are present in the measured environment. the device will quickly detect the leakage and display the concentration value on the screen. when the gas concentration gradually increases and reaches the preset alarm threshold. the device will emit a rapid buzzer alarm sound and light up the red backlight alarm.

10.Battery Replacement

⚠ When the battery capacity is low. the low battery symbol “ ” will appear on the screen. indicating the need for replacement for batteries.

① Turn off the device.
② Open the battery cover by pressing the latch.
③ Remove the battery cover.
④ Take out the old batteries.
⑤ Insert two new 1.5V AAA batteries.
⑥ Replace the battery cover and secure the latch.

11. Charging (lithium battery)

1. Please charge in a well-ventilated environment. use an adapter that meets relevant safety certification requirements. and pay attention to electricity safety regulations.
2. When ( ) appears on the instrument screen. it means that the battery is low. please charge the instrument as soon as possible. the charging time is about 4 hours. the actual time will vary due to various factors.
3. When the instrument is charging. the indicator light turns red. and turns green after charging is completed. indicating that the battery is fully charged. please unplug the charging plug in time and do not charge for a long time.

12.Packing List

Tester	× 1
1.5V x 2 AAA batteries	× 2
Manual	× 1
Cloth bag	× 1
USB Type-C charging cable (lithium battery type)	× 1

USER'S MANUAL

Made in china

CE RoHS M101040107

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要求：折页120g铜版纸

尺寸：360x120mm