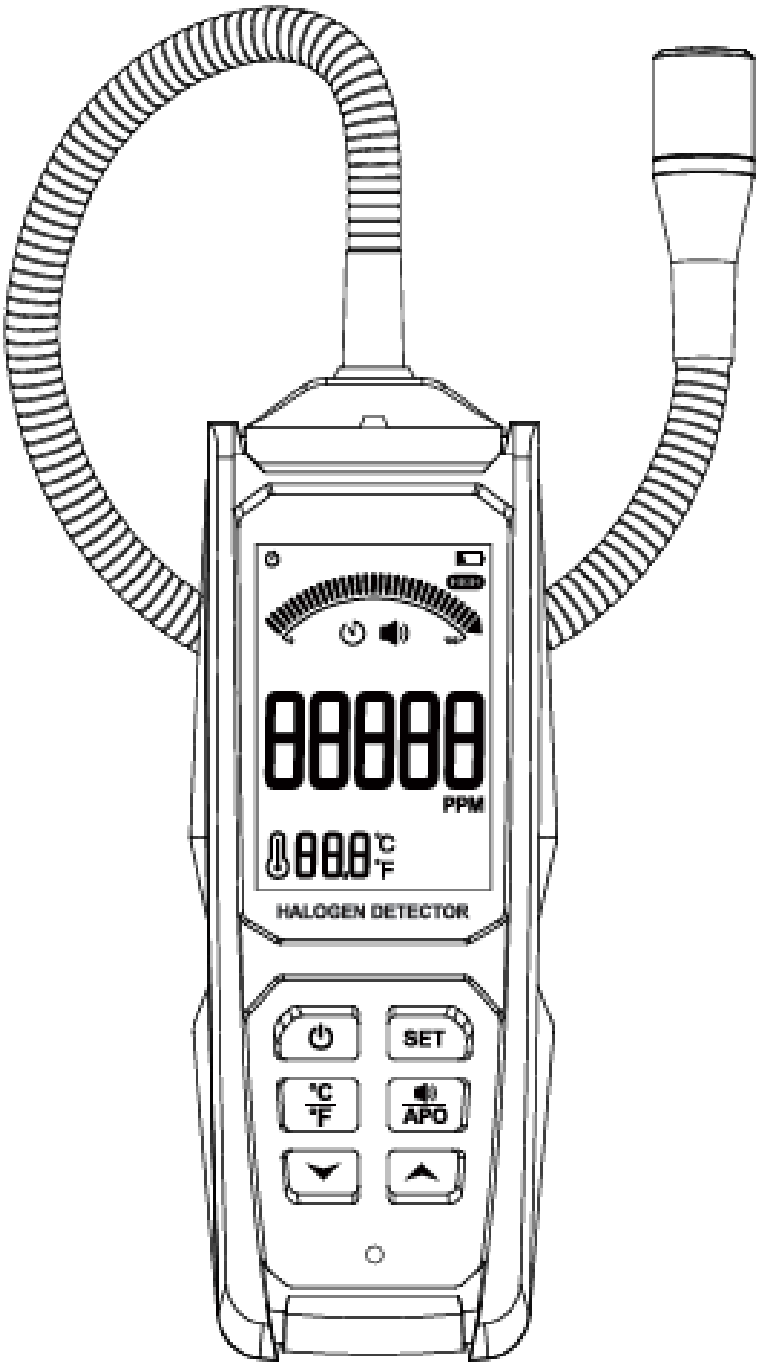
USER'S MANUAL

Halogen detector



⚠ Please refer to the manual before using the product

Safety Precautions

- 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 address your concerns promptly.

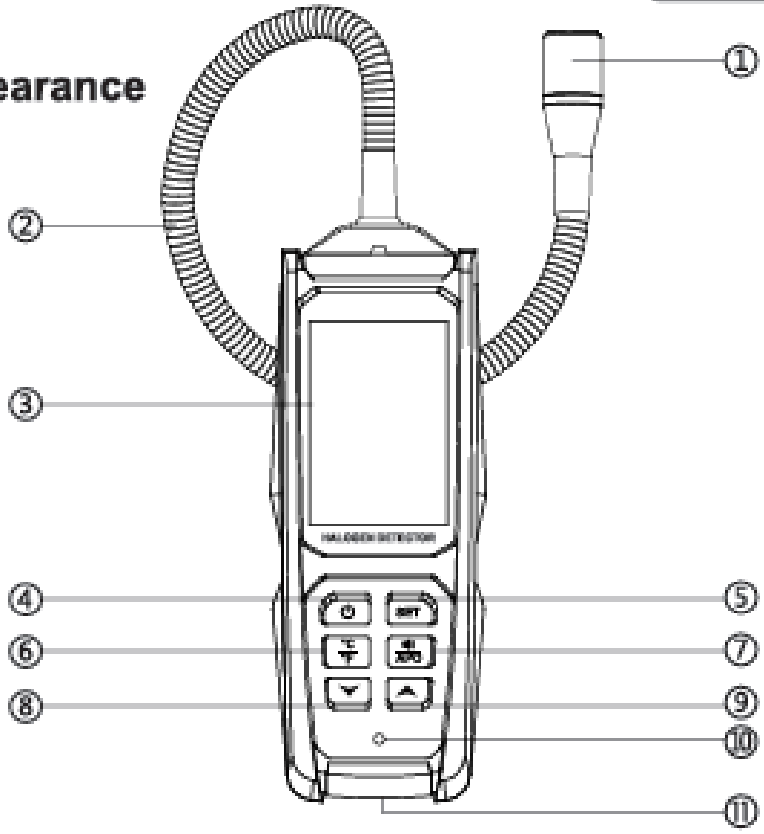
1.Product Overview

The halogen detector is an instrument designed to measure the concentration of halogen gases in the environment. It utilizes an electrochemical sensor that reacts 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

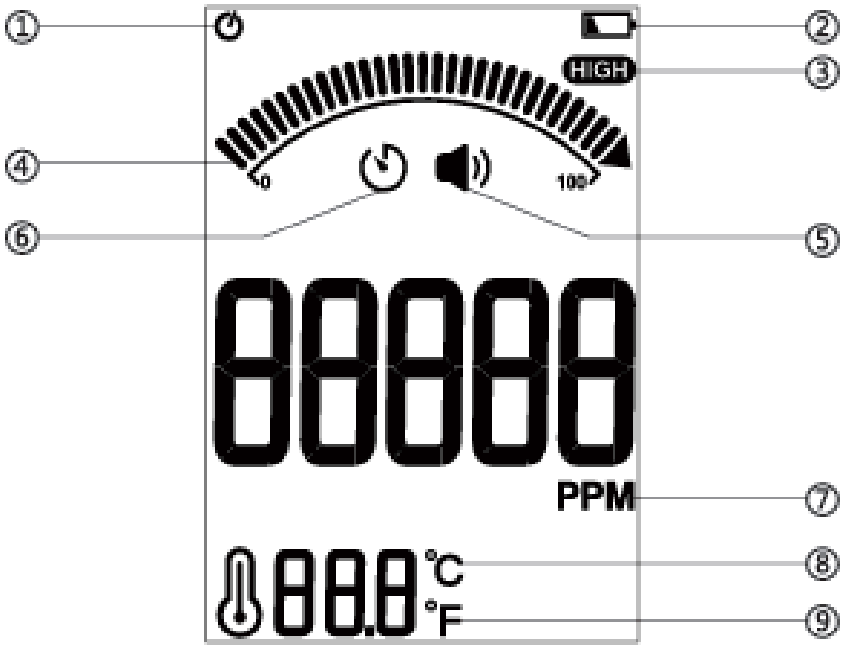
1. This is a gas detector, not a measuring device.
2. Ensure that the sensor grille is free of dirt, debris, and obstructions.
3. Calibrate or perform a gas test on the detector in normal ambient air (20.9% oxygen) without harmful gases.
4. When not in use for an extended period, remove the batteries 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	Describe
①	Sensor
②	Universal tube
③	Display
④	Power button
⑤	Alarm value setting
⑥	Temperature unit conversion
⑦	Sound switch/disable automatic shutdown
⑧	Alarm value decrease
⑨	Alarm value increase
⑩	Charging indicator
⑪	Type-C charging port

4.Display Introduction



Symbol	Describe
①	Automatic shutdown
②	Low battery
③	High alarm
④	Analog display
⑤	speaker
⑥	Warm-up countdown
⑦	Unit
⑧	Celsius
⑨	Fahrenheit

5.Technical parameters

Product name	Halogen detector
Detected gas	R22.R32.R134a
Display	Color screen
Sampling method	Diffusion
Range	0 ~ 1000PPM
Resolution	1PPM
Maximum sensitivity	R22/R134A@0.5 oz/year (14 g/year)
Warm-up calibration time	Countdown 30 seconds
Response time	<10 seconds
Default alarm value	600ppm
Alarm method	Buzzer alarm + analog display + vibration alarm
Automatic shutdown	10 minutes
Working current	About 140mA
Operating temperature	0-60℃
Operating humidity	≤ 90%RH
Storage environment	- 10 ~ 60 ℃ / ≤ 85 %RH
Universal tube length	270mm
Size	160 × 63 × 32mm
USB charging port	Type-C/5V/1A
Powered by	Built-in/18650 lithium battery/2000mAh/3.7v
Weight	About 276g

6. How to use the buttons

1. (⏻) Power button, press and hold for 2 seconds to turn on, short press to turn off .
2. Short press (SET) to enter the alarm value setting, and short press again to save the set value.
3. (℃/℉) Short press to switch ℃/℉.
4. (▼) In the SET alarm setting state, short press to decrease the value.
5. (▲) Briefly press the number increase key when in the SET alarm setting mode.
6. (APO) Press and hold for 2 seconds to disable the automatic shutdown, and the "⏻" symbol on the screen disappears. Press and hold again or restart the instrument to restore the automatic shutdown function. Short press to turn the alarm sound on or off.

7. Instrument calibration

After the instrument is turned on, it enters the 30-second countdown preheating self-calibration mode. During self-calibration, the instrument should be kept away from a gas leakage environment to prevent the leaked gas from affecting the calibration and causing measurement errors. Normal measurement can be performed after the calibration is completed.

8. Concentration alarm value setting

After the 30-second countdown for the instrument preheating calibration is completed, short press the "SET" key to enter the concentration alarm value setting mode; the default alarm value is 600PPM, short press (▲ plus / ▼ minus) to set the required alarm value, short press the "SET" key again to save the setting, and long press the SET key for 2 seconds to restore the default alarm value of 600PPM.

9. Alarm conditions and operation modes

When the instrument is turned on and enters the normal measurement state, the probe slowly approaches the measured environment. If there is halogen gas in the measured environment, the instrument can quickly detect the leaked gas and display the leakage concentration value on the screen. At the same time, when the gas concentration gradually increases and reaches the preset alarm value, the instrument will emit a rapid buzzer alarm.

10. Charging

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.

11. Packing List

Tester	× 1
manual	× 1
Cloth bag	× 1
USB Type-C charging cable	× 1

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CE RoHS

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