HALOGEN GAS DETECTOR

USER MANUAL



VER：25-618-EN

Note:

This product is a precision instrument. Before use, please read the "User Manual" carefully to avoid damage to the instrument due to misoperation. Thank you.

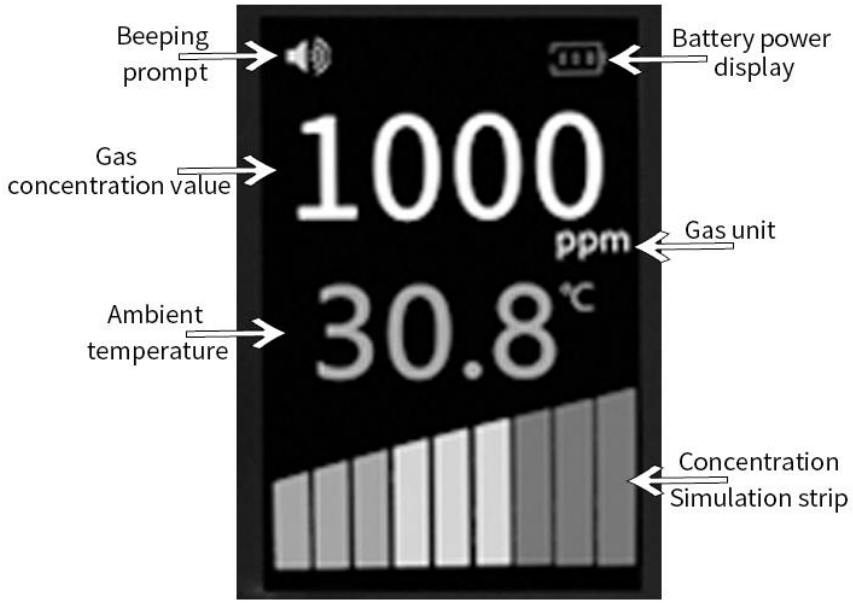
Product button illustration:



1、1 Packaging List:

Product mainframe	1 Pcs
User Manual	1 pcs
AAA Battery	4 pcs
Packaging box	1 pcs

2、Show explanation：



3、Function Description：

3.1：To turn on or off, simply press the power button briefly to activate the device.

Note: After startup, the instrument automatically preheats for approximately 30 seconds. The instrument screen then starts a 30-second countdown. Once the countdown ends, the sensor is fully preheated, and the instrument enters the measurement reading mode, allowing detection to begin.

3.2：Data zeroing function: The gas sensor used in this instrument has a relatively high sensitivity. If there are similar or approximate gases in the environment, the gas concentration value may be displayed on the instrument screen after startup. Please long press the 

button to enter the CAL zeroing mode. The instrument will count down for 10 seconds. Once the instrument zeros, it can be used.

3.3：Gas detection range：

Detection of halogen gases (including chlorine and fluorine); Detect medical ethylene oxide, ethanol gas, etc

Detect Harling gas in the fire extinguishing system; Inspect air conditioners, refrigeration systems, refrigerant recovery devices, etc.

3、4 Product parameters：

Gas detection (Based on the Characteristics of the gas sensor)	CFCS Chlorofluorocarbons： R11\R12\R13\R113\R114\R502\R500\R503\R170\R600a\R1270
	HCFCS Hydrochlorofluorocarbons: R22\R32\R123\R124\R141b\R142b\R402A\R402B\R403A\R409A etc
	HFCS Hydrofluorocarbons： R410a\R134a\R404a\R125\R407C\R417A\R507\R23\R1343 etc...
Range	0~1000ppm
Accuracy	± 5%FS
Resolution	1ppm Sensitivity：R22@0.5oz/year
Preheating time	30 seconds
Ambient temperature	-10~50℃/14~122°F（±1℃/2°F）
Lighting function	The front-end probe is equipped with an LED light
Alarm prompt setting	Lower limit prompt alarm/upper limit prompt alarm
Alarm mode	Beeping prompt
Power supply battery	AAA battery 4pcs
Net weight	≈160g
Detection tube length	≈215mm

4、Precautions before use：

4.1：Air conditioners or refrigeration equipment should be charged with sufficient refrigerant.

4.2： In the refrigeration system, the detection is carried out along the path of the refrigerant supply and transportation pipeline. During the detection, the probe should move along the pipeline path or component. The recommended detection movement speed is ≤25-50mm/s, and the recommended measurement distance is ≤5mm from the pipeline path or component being measured. It is recommended to conduct a comprehensive and multi-faceted mobile inspection of the pipeline path or components as much as possible, and locate the source of gas leakage based on other concentration values detected by the instrument.

4.3：Please do not expose the instrument to a high concentration of corrosive volatile gases (such as alcohol, smoke, formaldehyde, toluene, benzene, acetone, lighter gas, paint, etc.), otherwise it will cause corrosion and damage to the heating material and sensor, and will also cause irreversible damage to the performance of the sensor's sensitive material.

5、Usage skills：

5.1：In well-ventilated and open environments, since the leaked refrigerant will dissipate quickly, even large leaks are difficult to detect. In such cases, it is recommended to cover the area where the pipeline or equipment under test is leaking

5.2：When there are multiple leakage points, the ones with severe leakage should be identified and dealt with first. After the severe leakage points have been dealt with, the detection of other leakage points should be continued.

5.3：If the probe comes into contact with biogas or other volatile gases, its concentration value will be detected and an alarm will be triggered. Therefore, during the detection process, such environments should be avoided, or the data should be reset to zero before conducting the detection.

6、Introduction to function keys and Settings：

6.1：Power on/off: Press the  key to turn on the instrument. After turning on, the instrument will count down for 30 seconds (sensor preheating). Once the countdown ends, it can be used.

6.2：Temperature unit switching: instrument is equipped with an ambient temperature display function. Press the 

key to switch between the temperature measurement units "°C" and "°F".

6.3：Lighting and buzzer prompt Settings: Press the  key briefly to turn on the LED light at the front of the probe (this

function shortens the standby time), and press and hold the  key for a long time to turn on the instrument buzzer alarm function.

6.4: Automatic power ON/OFF: Press the  key to enter the Settings interface. The instrument will display APO. Press the  key to enter the Settings. Press the  key or the  key. On is to turn on the automatic shutdown, and OFF is to turn off the automatic shutdown. After setting, press the  key to exit, and then press the  key to return to the standby interface. The Settings are complete.

6.5: Upper limit alarm prompt: Press the  key to enter the Settings interface. The instrument will display APO. Press the  key or the  key to switch to HAL mode. Then press the  key to enter the Settings interface. Press the  key or the  key (long press for continuous adjustment) to adjust the upper limit gas concentration alarm value inside. After the Settings are completed, press the  key to confirm. Press the  key to exit and enter the standby interface. The Settings are complete.

6.6：Lower limit alarm prompt: Press the 

key to enter the Settings interface. The instrument will display APO. Press the  key or the 

key to switch to HAL mode. Then press the 

key to enter the Settings interface. Press the  key or the 

key (long press for continuous adjustment) to adjust the upper limit gas concentration alarm value inside. After the Settings are completed, press the 

key to confirm. Press the  key to exit and enter the standby interface. The Settings are complete.

7、Other precautions：

7.1：After the instrument is powered on and turned on, it preheats the gas sensor. Once the gas sensor is preheated and enters the working state, it will consume electricity. It is recommended to turn off the machine immediately when not in use to reduce battery consumption.

7.2：The gas sensor of the instrument is a precision core electronic component. It does not have waterproof or anti-corrosion functions and must not come into contact with liquids during use!