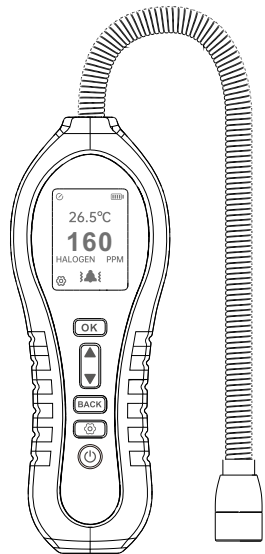
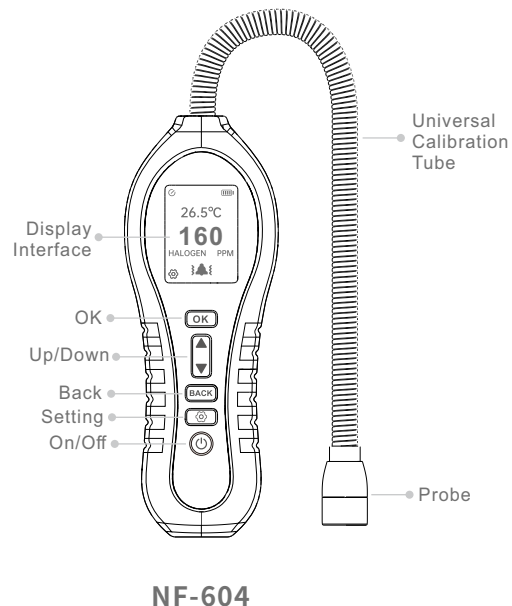


# Halogen Gas Detector

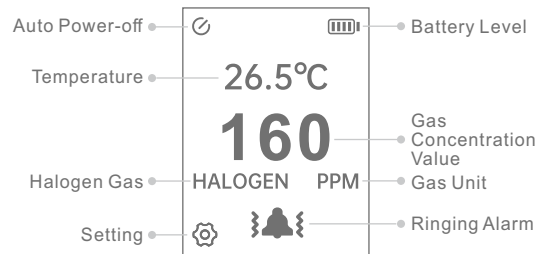
## NF-604



### Instructions for Product Buttons and Interfaces




### Display Interface



### Description of Product Functions

#### 1. On/Off

**On/Off:** Long press the power button "  " for 2s to turn off.

The device will start sensor self-checking (with a beep sound and motor flacker) onced turned on. Once all goes well in self-checking, the device will start count-down for warming up; if something wrong with self-checking, there will be a notice showing "Sensor Error", customers need to return it to the factory for repairing.

The warming up time is 180s, customers can exsist from the warming up countdown menu.

**Remarks:** Customers were suggested to warm up the device for 3 times continuously for a full activate to the device after long storage without use

#### 2. Gas Detection

##### Detectable Gases:

Detection of halogen gases (including chlorine and fluorine);  
 Detection of the medical ethylene oxide, ethanol gas, etc.  
 Detection of the halon gas in fire extinguishing systems;  
 Detection of the air conditioner, refrigeration systems, refrigerant recovery units, etc.

- ① CFCS (Chlorofluorocarbons): R11, R12, R13, R113, R114, R502, R500, R503, R170, R600a, R1270, etc.
- ② HCFC (Hydrochlorofluorocarbons) R22, R32, R123, R124, R141b, R142b, R402A, R402B, R403A, R409A, etc.
- ③ HFCS (Hydrofluorocarbons): R410a, R134a, R404a, R125, R407C, R417A, R507, R23, R1343, etc.

##### Overrun Alarm:

- ① Gas concentration value < Low-limit alarm, displayed in white font, no alarm.

- ② Low-limit alarm < Gas concentration value < High-limit alarm, displayed in white font, intermittent vibration, soft beeping.
- ③ Gas concentration value > High-limit alarm, displayed in red font, continuous vibration, rapid beeping.

### Operation Skills:

- ① In open areas with good ventilation, it may be difficult to detect even larger leaks because the leaked refrigerant dissipates quickly. In such cases, it is recommended to cover the areas where leaks may occur.
- ② When there are multiple leakage points, it is recommended to first identify the more severe ones. Once the major leakage points are located, it will be easier to find the minor ones.
- ③ If the probe comes into contact with methane or other volatile gases, it may trigger an alarm. Therefore, this situation should be avoided during inspection.

### Notes:

- ① The device uses thermistor temperature measurement method (°C/°F).
- ② The instrument can be tested after being turned on. The test will be more accurate if the instrument is placed in the environment for more than 30 minutes.


- ③ In a refrigeration system, detection should be carried out along a continuous path. When conducting leak detection, the probe should be moved around the component being inspected at a rate not exceeding 25-50mm/s and kept at a distance from the surface not exceeding 5mm. It is essential to fully encircle the component during movement to achieve optimal results. An alarm indicates that a leak has been found.
- ④ Please do not expose the instrument to high concentrations of corrosive gases (such as alcohol, smoke, formaldehyde, toluene, benzene, acetone, lighter gas and paint), as it may cause corrosion or damage to heating materials and sensor wires, and lead to irreversible degradation of the sensitive material's performance.


## 3. Temperature Monitoring


This product utilizes temperature measurement using a thermistor (°C/°F).

When testing the ambient temperature, the instrument needs to be placed in the environment for at least half an hour.

## 4. Setting

After powering on, short press Setting "  " to enter the setting interface.

In the setting interface, press Up/Down "  " to switch between language setting, alarm setting, unit setting, auto power-off setting, and information about this instrument.

- ① **Language setting:** Switch between simplified Chinese and English.
- ② **Alarm setting:** The high-limit alarm value and the low-limit alarm value can be set (Note: The high-limit alarm value must be greater than the low-limit alarm value).
- ③ **Unit setting:** Switch the temperature unit (°C/°F); The refrigerant gas unit is defaulted to be in PPM.
- ④ **Auto power-off setting:** The auto power-off time can be set (15min, 30min, 60min, never). When the auto power-off time is set, an auto power-off icon "  " will be displayed in the top left corner of the main interface.
- ⑤ **About this instrument:** You can view information about this instrument.

## Packing List

Halogen Gas Detector	1 set	Color Box	1 pc
Tool Bag	1 pc	User Manual	1 copy
Conformity Certificate/Warranty Card	1 copy		

**Notes:** The manual is for reference only. Changes may be made without notice. The actual product shall prevail.

## Product Specification

Model	NF-604
Display Screen	Color screen
Gas Detection	CFCS (Chlorofluorocarbons): R11, R12, R13, R113, R114, R502, R500, R503, R170, R600a, R1270, etc.
	HCFC (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
Resolution	1PPM
Preheating Time	180S
Temperature Monitoring	-10~50°C/14~122°F
Alarm Setting	High-limit alarm/low-limit alarm
Alarm Types	Beep sound, vibration, display
Language Setting	Simplified Chinese and English
Refrigerant Gas Unit	PPM
Auto Power-off	15min, 30min, 60min, never
Working Hours	>6h
Low Battery Alert	4.5+-0.1V
Low Battery Power-off	4.2+-0.1V
Power Supply	4*1.5V AAA
Size	173×63×31mm