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- › [H HOLDPEAK](#) /
- › [HOLDPEAK HP-5800G Ammonia Gas Detector User Manual](#)

## H HOLDPEAK HP 5800G

# HOLDPEAK HP-5800G Ammonia Gas Detector

User Manual

[Setup](#)

[Operation](#)

[Maintenance](#)

[Troubleshooting](#)

[Specifications](#)

[Warranty & Support](#)

## INTRODUCTION

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The HOLDPEAK HP-5800G is a portable ammonia gas detector designed for continuous monitoring of NH<sub>3</sub> in various environments. It features a high-quality electrochemical sensor, a wide measuring range, and user-friendly alarm settings. This manual provides essential information for the safe and effective use of your device.



Image: The HOLDPEAK HP-5800G Ammonia Gas Detector, highlighting its multifunctional capabilities, dimensions (173mm/6.81in height, 73mm/2.87in width, 20mm/0.78in thickness), and key features like ammonia detection, buzzer alarm, backlight, auto-off, color LCD screen, and rechargeable battery.

## 1. SETUP

### 1.1 Unboxing and Initial Inspection

Carefully remove the ammonia gas detector and all accessories from the packaging. Inspect the device for any signs of damage. The package typically includes the ammonia gas detector, a charging cable, and this instruction manual.

# PACKAGE CONTENT



HP-5800G



USB Cable



Manual



Packing box



Packaging bag

Image: The package contents, including the HP-5800G ammonia gas detector, a USB charging cable, the user manual, and a carrying case, all neatly arranged in their box.

## 1.2 Charging the Device

The device is equipped with a built-in 1600mAh rechargeable battery, providing up to 30 hours of operation. To charge, connect the included USB cable to the charging interface on the device and a suitable USB power source. A green light indicates charging, and a red light indicates a full charge.

# Electrochemical Sensors

The ammonia detector using imported high precision electrochemical principle ammonia sensor, fast response speed, high precision, excellent stability, good repeatability.

**0 ~ 100 PPM**

Measurement Range

**0.1 PPM**

The Resolution of Ammonia

**±2 %**

Accuracy



Image: A detailed view of the device's top section, showing the electrochemical sensor (probe) and the DC 5V charging interface. Text indicates that a red light signifies a full charge, and a green light indicates active charging.

## 1.3 Sensor Protection

Before use, ensure the protective cap is removed from the sensor. When the product is not in use, always replace the sealing rubber sleeve around the probe to protect it from dirt and damage.

## 2. OPERATION

### 2.1 Power On/Off

Press and hold the power button (labeled with a power symbol) to turn the device on or off. The display will illuminate upon activation, showing current ammonia levels, temperature, and humidity.



Image: A detailed diagram labeling the components of the HP-5800G, including the sensor, charging indicator light, display, alarm indicator light, °C/°F temperature button, alarm setting button, increment button, MODE button, decrement button, and power on/off button.

## 2.2 Temperature Unit Conversion

Press the '°C/°F' button to switch between Celsius and Fahrenheit temperature units on the display.

## 2.3 Alarm Setting

The device allows setting two alarm values (AL1 and AL2). To set an alarm:

1. Press the **ALARM** button to enter the setting state. The display will show "AL1" for the first alarm setting mode.
2. Use the **Increment** (up arrow) and **Decrement** (down arrow) buttons to adjust the alarm value. A short press changes the value by 0.1, while a long press changes it by 1.
3. Press the **ALARM** button again to enter "AL2" second alarm setting mode. Adjust as needed.
4. Press the **MODE** button to exit the alarm setting mode.

## 2.4 Auto Power Off (APO)

The device features an Auto Power Off function. To toggle this feature:

1. Press the **MODE** button. The display will show "APO ON" or "APO OFF".
2. Use the **Increment** or **Decrement** buttons to switch between "APO ON" (auto power off enabled) and "APO OFF" (auto power off disabled).
3. Press the **MODE** button again to confirm your selection and exit.

Your browser does not support the video tag.

Video: This video demonstrates the basic operation of the HOLDPEAK HP-5800G Ammonia Gas Detector, including powering on, converting temperature units, setting alarm thresholds (AL1 and AL2), and enabling or disabling the auto power-off function.

## 3. MAINTENANCE

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### 3.1 General Care

The HP-5800G is an accurate measuring device. To ensure its longevity and performance, avoid exposing it to water or objects exceeding 50 °C. Keep the device clean and free from dust.

### 3.2 Battery Management

When the battery level indicator on the display shows low charge, connect the device to a power source using the USB cable to recharge the lithium battery. Ensure the battery is fully charged before continued use to maintain optimal performance.

### 3.3 Sensor Care

The electrochemical sensor is a consumable component. Protect it from dirt and physical damage. The sensor cannot be repaired and is not covered under warranty if damaged due to misuse. Always replace the sealing rubber sleeve over the probe when the device is not in use.

## 4. TROUBLESHOOTING

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If you encounter any issues with your HOLDPEAK HP-5800G Ammonia Gas Detector, please refer to the following general advice:

- **Device not powering on:** Ensure the battery is charged. Connect the device to a power source and allow it to charge for at least 30 minutes before attempting to power on again.
- **Inaccurate readings:** Ensure the sensor is clean and free from obstructions. Verify that the device is operating within its specified environmental conditions (temperature, humidity).
- **Alarm not sounding:** Check the alarm settings (AL1, AL2) to ensure they are configured correctly. Verify that the volume is not set to minimum or muted if applicable.
- **Device unresponsive:** Try performing a soft reset by turning the device off and then on again. If the issue persists, contact customer support.

For more complex issues, please refer to the detailed technical parameters and precautions section in the manual or contact customer support.

## 5. SPECIFICATIONS

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The HOLDPEAK HP-5800G Ammonia Gas Detector is designed with the following technical specifications:



## TECHNICAL PARAMETERS:

Detection of gas:	Ammonia ( NH <sub>3</sub> )
Measuring range:	0-100ppm
Resolution:	0.1ppm
Basic error:	Less than $\pm 5\%$ ( F.S )
Response time:	Less than 60 seconds
Recovery time:	Less than 60 seconds
Repeatability:	Less than $\pm 1\%$
The principle of sensor:	Electrochemical principle, life for two years
Battery:	Nickel metal hydride battery
Display:	Large screen liquid crystal display
To alarm:	Acoustic, optical double alarm, can set the alarm value, an alarm sound is divided into 80 dB
Working temperature:	-20 ~ 50 °C
Working humidity:	0-95% RH ( Non Gel)

## PRECAUTIONS:

- \* This product is an accurate measuring device. Avoid damage to the product and keep away from water and hot objects (50 ° C);
- \* When the battery level shows  space, please charge the lithium battery in time, and then continue to use the product after it is full;
- \* When the instrument alarms, it indicates that the measured value is at the alarm value you set, so take appropriate measures to protect the safety of yourself and others' lives and property;
- \* If you do not use this product for a long time, please remove the battery;
- \* The sensor (probe) of this product belongs to the consumable device. Users should be careful to protect it from dirt and damage. The sensor (probe) cannot be repaired and is not covered by the warranty;
- \* When the product is not in use, please put the sealing rubber sleeve around the probe.

**Recovery time:  $\leq 120$  seconds**

Image: A display of the technical parameters for the HP-5800G, including detection gas (Ammonia NH<sub>3</sub>), measuring range (0-100ppm), resolution (0.1ppm), basic error (less than  $\pm 5\%$  F.S.), response time (less than 60 seconds), recovery time (less than 60 seconds), repeatability (less than  $\pm 1\%$ ), principle of sensor (Electrochemical principle, life for two years), battery (Nickel metal hydride battery), display (Large screen liquid crystal display), alarm (Acoustic, optical double alarm, can set the alarm value, an alarm sound is divided into 80 dB), working temperature (-20 ~ 50 °C), and working humidity (0-95% RH (Non Gel)). Precautions are also listed.

### 5.1 Key Features

- **Measuring Range:** 0-100 PPM with 0.1 PPM resolution.
- **Accuracy:**  $\pm 2\%$ .
- **Sensor Type:** High-quality electrochemical sensor with an extended lifespan of over two years.
- **Alarm System:** User-friendly alarm with adjustable high and low thresholds, featuring both audible (80 dB) and visual alerts.
- **Battery:** Built-in 1600mAh rechargeable battery, offering up to 30 hours of continuous use. USB rechargeable.
- **Additional Measurements:** Measures temperature and humidity.
- **Convenience:** Features a tripod hole for hands-free operation.

## 5.2 General Specifications

- **Brand:** H HOLDPEAK
- **Model Number:** HP 5800G
- **Power Source:** Battery Powered
- **Item Weight:** 1 Pound
- **Product Dimensions:** 3 x 1 x 2 inches
- **Operating Humidity:** 0-95% RH (Non Gel)
- **Operating Temperature:** -20 °C to 50 °C

## 6. WARRANTY AND SUPPORT

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### 6.1 Warranty Information

The HOLDPEAK HP-5800G Ammonia Gas Detector comes with a 1-year warranty from the date of purchase. This warranty covers manufacturing defects under normal use. It does not cover damage resulting from misuse, accidents, unauthorized modifications, or consumable parts like the sensor if damaged due to user negligence.

### 6.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your HOLDPEAK HP-5800G, please contact HOLDPEAK customer service. Refer to the contact information provided with your product packaging or visit the official HOLDPEAK website for support details.