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## INFURIDER YF-5800G

# INFURIDER YF-5800G Portable Ammonia Gas Detector User Manual

Model: YF-5800G

## 1. INTRODUCTION

The INFURIDER YF-5800G is a portable ammonia gas detector designed for accurate measurement of NH<sub>3</sub> gas concentration, as well as ambient temperature and humidity. This device features a high-sensitivity sensor, a large LCD color screen for clear readings, and adjustable visual and audible alarms to ensure safety in various environments. It is equipped with a USB rechargeable lithium battery and a tripod mount for continuous monitoring.

## 2. PRODUCT OVERVIEW

Familiarize yourself with the components of your INFURIDER YF-5800G detector:



**Figure 2.1: Device Components**

This image displays the INFURIDER YF-5800G detector with key parts labeled for easy identification. These include the sensor, screen, charging port, charging indicator light, alarm indicator light, temperature unit button (°C/°F), alarm setting button, alarm value increase/decrease buttons, mode button, and power button.

- **Sensor:** Located at the top, detects ammonia gas.
- **Screen:** Large LCD display showing NH<sub>3</sub> concentration, temperature, and humidity.
- **Charging Port:** USB port for recharging the device.
- **Charging Indicator Light:** Indicates charging status.
- **Alarm Indicator Light:** Flashes when an alarm threshold is exceeded.
- **°C/°F Button:** Toggles between Celsius and Fahrenheit temperature units.
- **ALARM Button:** Used to access and adjust alarm settings.
- **MODE Button:** Used to cycle through display modes and access settings like auto power-off.
- **Up/Down Buttons:** Used to adjust alarm values or navigate menus.
- **Power Button:** Turns the device on/off.

### 3. SETUP

#### 3.1. Charging the Device

Before first use, fully charge the detector. Use the provided USB cable to connect the device to a compatible USB power source.



**Figure 3.1: USB Charging Port and Indicators**

The image shows the USB charging port and the indicator lights. A green light illuminates during charging, and a red light indicates that the device is fully charged.

- Connect the USB cable to the charging port on the device.
- During charging, a green indicator light will be visible.
- Once fully charged, the indicator light will turn red.

#### 3.2. Powering On/Off

To power on the device, press and hold the Power button until the screen illuminates. To power off, press and hold the

Power button again until the screen turns off.

## 4. OPERATING INSTRUCTIONS

### 4.1. Basic Measurement

Upon powering on, the device will automatically begin measuring and displaying the current NH<sub>3</sub> concentration, temperature, and humidity on the LCD screen.



**Figure 4.1: Measurement Range and Accuracy**

The display shows the ammonia concentration in ppm, along with temperature and humidity. The measurement range for NH<sub>3</sub> is 0-100 ppm, with a resolution of 0.1 ppm and an accuracy of +/-2%.

### 4.2. Adjusting Alarm Settings

The device features adjustable visual and audible alarms (AL1 and AL2) for ammonia concentration. When the measured value exceeds the set alarm threshold, the device will flash and emit a beeping sound.

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#### Video 4.2.1: Ammonia Measurement and Alarm Setting Demonstration

This video demonstrates the ammonia measurement function and how to adjust the alarm settings on a similar gas detector model. It shows the process of setting AL1 and AL2 thresholds.

- Press the **ALARM** button to enter the alarm setting mode.
- Use the **Up/Down** buttons to adjust the AL1 (low alarm) and AL2 (high alarm) values.
- Press the **ALARM** button again to confirm and save the settings.

### 4.3. Temperature Unit Switching

To switch between Celsius (°C) and Fahrenheit (°F) temperature units, press the °C/°F button.

### 4.4. Auto Power-Off Function

The device includes an auto power-off function to conserve battery life. This can be enabled or disabled via the **MODE** button settings.

Your browser does not support the video tag.

#### Video 4.4.1: BT-5800G Ammonia Gas Detector Features

This video showcases the features of the BT-5800G, including its ammonia gas detection, temperature, and humidity measurement capabilities. It also demonstrates basic operation and settings.

- Press the **MODE** button to access the auto power-off setting.
- Use the **Up/Down** buttons to select ON or OFF for the auto power-off function.
- Confirm your selection to save the setting.

## 5. SAFETY GUIDELINES: UNDERSTANDING AMMONIA LEVELS

It is crucial to understand the potential health risks associated with different ammonia gas concentrations. The following index provides general guidance:



**Figure 5.1: Ammonia Gas Human Risk Index**

This chart illustrates the potential health effects of various ammonia gas concentrations on humans.

- **100 ppm:** Most people feel uncomfortable but generally harmless.
- **250 ppm:** Irritates nose, throat, eyes, and other senses.
- **400 ppm:** Eye pain and tearing can last for 30 minutes.
- **700 ppm:** The limit the human body can tolerate; prolonged exposure is not recommended.
- **2500 ppm:** Severe cough, throat, and nose inflammation; possible death within 15 minutes.

Always take appropriate safety measures when ammonia levels are elevated.

## 6. WIDE APPLICATIONS

The INFURIDER YF-5800G ammonia gas detector is suitable for a variety of environments where ammonia monitoring is essential:



**Figure 6.1: Common Application Areas**

The image displays several environments where the YF-5800G detector can be effectively used, including construction sites, poultry farms, offices, homes, and industrial settings.

- **Agricultural Settings:** Pig farms, chicken farms, livestock facilities, horse stables.
- **Industrial Environments:** Workspaces, factories, and other industrial areas where ammonia may be present.
- **Residential and Commercial:** Homes, offices, and other indoor spaces for air quality monitoring.
- **Waste Management:** Landfills and areas with potential ammonia emissions.

## 7. SPECIFICATIONS

Technical specifications for the INFURIDER YF-5800G Ammonia Gas Detector:

Feature	Specification
Brand	INFURIDER

<b>Feature</b>	<b>Specification</b>
Model Number	YF-5800G
Measurement Range (NH3)	0 - 100 ppm
Resolution (NH3)	0.1 ppm
Accuracy (NH3)	+/-2%
Temperature Range	14°F - 122°F (-10°C - 50°C)
Humidity Range	0 - 95% RH
Operating Humidity	95% (non-condensing)
Power Source	USB Rechargeable Lithium Battery
Alarm Type	Visual and Audible
Item Weight	Approximately 1.1 pounds
UPC	734136036557



**Figure 7.1: Device Dimensions**

This image provides a visual representation of the detector's dimensions, showing its height, width, and depth.

## 8. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your ammonia gas detector.

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the detector in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Battery Care:** Recharge the battery regularly, even if the device is not frequently used, to maintain battery health. Avoid fully discharging the battery for extended periods.
- **Sensor Protection:** Keep the sensor area clean and free from obstructions. Avoid exposing the sensor to harsh chemicals or liquids.

## 9. TROUBLESHOOTING

If you encounter issues with your INFURIDER YF-5800G, refer to the following common problems and solutions:

- **Device not turning on:** Ensure the battery is charged. Connect the device to a USB power source and try again.
- **Inaccurate readings:** Ensure the sensor is clean and unobstructed. Avoid using the device in environments with extreme temperature or humidity fluctuations immediately after moving it from a different environment. Allow it to stabilize.
- **Alarm not sounding:** Check alarm settings (AL1, AL2) to ensure they are configured correctly. Verify that the audible alarm is enabled in the device settings.
- **Screen display issues:** If the screen is dim or flickering, ensure the battery is charged. If the issue persists, contact customer support.

For problems not listed here, please contact customer support.

## 10. WARRANTY AND SUPPORT

INFURIDER provides a warranty for this product against defects in materials and workmanship under normal use. The specific warranty period may vary by region and retailer. Please retain your purchase receipt as proof of purchase. For technical assistance, warranty claims, or any questions regarding your INFURIDER YF-5800G Portable Ammonia Gas Detector, please contact INFURIDER customer support through the retailer where you purchased the product or visit the official INFURIDER website for contact information.

**Customer Support:** Refer to your product packaging or the INFURIDER official website for the most up-to-date contact information.