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## TOPTES PT205

# TOPTES PT205 Natural Gas Detector User Manual

Model: PT205 | Brand: TOPTES

## 1. INTRODUCTION

The TOPTES PT205 is an advanced natural gas detector designed to enhance safety in your home and recreational vehicles (RVs). This device provides rapid detection of various combustible gases, offering both visual and audible alarms to alert you to potential gas leaks. Its compact and portable design makes it a convenient tool for monitoring gas appliances and pipelines.

The PT205 is compatible with a wide range of combustible gases, including LPG, methane, ethane, propane, butane, natural gas, coal gas, gas fuel, and liquefied natural gas. It features an innovative %LEL (Lower Explosive Limit) concentration percentage detection, providing precise readings within a range of 1%LEL to 10%LEL (equivalent to 100ppm-5,000ppm, based on Methane).

## 2. IMPORTANT SAFETY INFORMATION

**WARNING: Read all instructions before use. Failure to follow these instructions may result in property damage, injury, or death.**

- This device is intended for detecting combustible gases and should not be used as a substitute for professional gas leak detection services or proper ventilation.
- Always ensure adequate ventilation when working with gas appliances or in areas where gas leaks are suspected.
- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Keep the device out of reach of children.
- Do not attempt to modify or repair the device. Refer all servicing to qualified personnel.
- Replace batteries promptly when the low battery indicator appears to ensure continuous and accurate operation.

## 3. PACKAGE CONTENTS

Verify that all items are present upon opening the package:

- 1x TOPTES PT205 Gas Leak Detector
- 1x Storage Bag
- 2x AAA Alkaline Batteries
- 1x User Manual (this document)



Figure 1: Contents of the TOPTES PT205 package.

## 4. PRODUCT OVERVIEW

The TOPTES PT205 is designed for ease of use and portability. It features a clear LCD display, intuitive controls, and a sensitive sensor head for accurate gas detection.



Figure 2: Front view of the TOPTES PT205 Gas Leak Detector.

## Key Components:

- **Sensor Head:** Located at the tip of the device, responsible for detecting gas concentrations.
- **LCD Display:** Shows %LEL readings, warm-up countdown, battery status, and alarm indicators.
- **Power Button:** Used to turn the device on and off.
- **Sensitivity Button (S):** Allows adjustment of detection sensitivity.
- **Pocket Clip:** For convenient carrying and attachment.
- **Battery Compartment:** Located at the base, houses two AAA batteries.



Figure 3: Detailed view of the LCD display with %LEL reading.

## 5. SETUP

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### 5.1 Battery Installation

1. Unscrew the end cap of the device to access the battery compartment.
2. Insert the two included AAA Alkaline batteries, ensuring correct polarity (+/-).
3. Securely screw the end cap back onto the device.

### 5.2 Power On and Warm-up

1. Press and hold the Power Button ( ) for a few seconds until the display illuminates.
2. The device will initiate a 30-second warm-up sequence, indicated by a countdown timer on the LCD screen. During this time, ensure the device is in a fresh air environment for accurate self-calibration.
3. Once the warm-up is complete, the device will beep, and the display will show '0%LEL' or a stable low reading, indicating it is ready for use.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Gas Detection

1. With the device powered on and warmed up, slowly move the sensor head near the area where a gas leak is suspected.
2. Pay close attention to gas pipelines, connections, valves, and gas appliance areas (e.g., gas stoves, water heaters, furnaces, RV connections).

# Alert

## Visual & Audible



9 Bar Graph visual Alert



75 dB Audible Alert

Figure 4: Using the PT205 to detect gas near a stove burner.

### 6.2 Alarm Indicators

- **Visual Alarm:** The bar graph on the LCD display will increase as the gas concentration rises. For high gas concentrations, the LCD screen will turn red.
- **Audible Alarm:** A distinct beeping sound will accompany the visual alert. The frequency of the beep will increase with higher gas levels.
- **%LEL Value:** The display will show the real-time percentage of the Lower Explosive Limit (%LEL) for the detected gas.

### 6.3 Sensitivity Adjustment

The PT205 features an 'S' button (Sensitivity) which allows you to adjust the detection sensitivity to suit different environments or specific detection needs. Refer to the detailed instructions in the included user manual for specific sensitivity level settings.

### 6.4 Gases Detected

The TOPTES PT205 is capable of detecting a variety of combustible gases, including:

- Methane (CH<sub>4</sub>)
- Propane (C<sub>3</sub>H<sub>8</sub>)
- Butane (C<sub>4</sub>H<sub>10</sub>)
- Natural Gas
- LPG (Liquefied Petroleum Gas)
- Ethane (C<sub>2</sub>H<sub>6</sub>)
- Ethylene (C<sub>2</sub>H<sub>4</sub>)
- Coal Gas
- Gas Fuel
- Liquefied Natural Gas
- Hydrogen (H<sub>2</sub>)
- Acetylene (C<sub>2</sub>H<sub>2</sub>)
- Gasoline Vapors

# 10+



# 10+ Gases



Butane



Methane



Ethylene



Propane



Natural gas



Hydrogen



Acetylene



Gasoline

Natural Gas, Methane, Propane, Methane, Acetylene, LPG, Gasoline.....

Figure 5: Examples of gases detectable by the PT205.

## 7. MAINTENANCE

### 7.1 Battery Replacement

The device features a low battery indicator on the LCD screen. When this indicator appears, replace both AAA Alkaline batteries promptly to ensure optimal performance and accuracy.

### 7.2 Cleaning and Storage

- Wipe the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water.
- Store the PT205 in its included storage bag in a cool, dry place away from direct sunlight and extreme temperatures when not in use.

## 8. TROUBLESHOOTING

### Device Not Turning On:

- Check if the batteries are correctly installed with the proper polarity.
- Ensure the batteries are fresh AAA Alkaline type. Rechargeable batteries may not provide sufficient voltage for proper operation.

### No Alarm Despite Suspected Leak:

- Verify that the 30-second warm-up period has completed.
- Ensure the sensor head is positioned directly in the suspected leak area.
- Check the sensitivity setting and adjust if necessary.

### False Alarms:

- Ensure the device was calibrated in a fresh air environment during warm-up.
- Avoid using the detector near strong fumes, aerosols, or other non-gas vapors that might trigger a false positive.

## 9. SPECIFICATIONS

Feature	Specification
Brand	TOPTES
Model	PT205
Style	Compact
Power Source	Battery Powered (2x AAA Alkaline, included)
Color	Orange
Item Weight	0.13 Kilograms (approx. 4.6 ounces)
Alarm Type	Audible, Visual
Operating Humidity	Up to 80%
Detection Range (%LEL)	1%LEL to 10%LEL (100ppm-5,000ppm based on Methane)
Warm-up Time	30 seconds
Automatic Power-Off	Yes (after 5 minutes of inactivity)
Certifications	CE, FCC, RoHS, UKCA

## 10. WARRANTY AND SUPPORT

### **Warranty Information:**

The TOPTES PT205 Natural Gas Detector comes with a manufacturer's warranty for 36 months from the date of purchase. Please retain your proof of purchase for warranty claims.

### **Customer Support:**

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please visit the official TOPTES website or contact their customer service department. Contact details can typically be found on the product packaging or the manufacturer's website.

