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## TOPTES PT199

# TOPTES PT199 Natural Gas Leak Detector User Manual

Model: PT199 | Brand: TOPTES

## 1. INTRODUCTION

The TOPTES PT199 is a portable combustible gas leak detector designed to identify the presence of various gases, including natural gas, methane, propane, butane, and LPG. This device helps pinpoint the source of gas leaks, contributing to household safety by reducing the risk of explosions. It features both visual and audible alarms to alert users to potential hazards.

## 2. SAFETY INFORMATION

- **Important:** If you smell gas, immediately follow all safety information provided by your gas provider. Do not rely solely on this device if you suspect a significant gas leak.
- The warm-up process for the detector should always be performed in a known 'clean' environment to ensure accurate results.
- The PT199 is specifically designed for detecting combustible gas leaks. It is not intended to detect fire-related gases such as carbon monoxide, carbon dioxide, hydrogen cyanide, or sulfur dioxide, and should not be used as a fire alarm device.
- Ensure proper ventilation when investigating a gas leak.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x PT199 Gas Leak Detector
- 1x Storage Bag
- 2x AAA Batteries
- 1x User Manual



Image: Contents of the TOPTES PT199 package, including the detector, storage bag, AAA batteries, and user manual.

#### 4. PRODUCT OVERVIEW

The TOPTES PT199 is a compact, pen-style gas leak detector designed for ease of use and portability. It features a clear LCD display, intuitive controls, and a sensitive sensor for quick detection.



Image: Front view of the TOPTES PT199 Natural Gas Leak Detector, showing its orange body, display, and control buttons.

### Key Features:

- **Combustible Gas Detection:** Detects natural gas, methane, propane, butane, LPG, and more.
- **Visual & Audible Alarm:** Provides immediate alerts with a red LCD screen and increasing alarm sound intensity based on gas concentration.
- **Quick Response:** Alarms trigger within 0.5 seconds of gas detection.
- **Dual Sensitivity Modes:** Switch between high and low sensitivity for precise leak localization.
- **Automatic Shut-off:** Powers off after 5 minutes of inactivity or no gas detection to conserve battery.
- **Low Battery Indicator:** Alerts when battery voltage drops below 2.4V.
- **Compact Design:** Pocket-sized with a non-slip grip and pocket clip for easy carrying.



## 10+ Gases

*Accurately locate combustible gases such as natural gas, propane, methane, gasoline...*

Image: Close-up view of the PT199's gas sensor, designed for accurate detection of various combustible gases.

## 5. SETUP

### 5.1 Battery Installation

1. Unscrew the battery cap at the bottom of the device.
2. Insert two (2) AAA batteries, ensuring correct polarity (+/-).
3. Securely screw the battery cap back into place.

### 5.2 Initial Warm-up

After battery installation, the device requires a warm-up period for calibration:

1. Press the power button (**U**) to turn on the detector.
2. The device will undergo a 30-second warm-up process. During this time, ensure the detector is in a clean, gas-free environment for accurate calibration.

3. The device is ready for use once the warm-up is complete and the display shows a stable reading.

Your browser does not support the video tag.

Video: Official TOPTES demonstration of PT199 battery installation, power-on, warm-up, and gas detection process.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Power On/Off

- To power on, press and hold the red power button (**U**) until the display illuminates.
- To power off, press and hold the red power button (**U**) again until the display turns off. The device also features an auto-off function after 5 minutes of no operation or gas detection.

### 6.2 Gas Detection Process

Once the device has completed its warm-up, proceed with detection:

1. Slowly move the sensor tip (the top part of the detector) towards the area where a gas leak is suspected.
2. Maintain a detection distance of approximately 1-5 cm from the potential leak source.
3. Observe the LCD screen and listen for the audible alarm.

### 6.3 Sensitivity Modes

The PT199 offers two sensitivity modes:

- **High Sensitivity Mode:** Indicated when the 'S' button light is on. This mode is ideal for detecting small leaks or for initial scanning of an area.
- **Low Sensitivity Mode:** Indicated when the 'S' button light is off. This mode can be used to narrow down the exact location of a larger leak.
- Press the green 'S' button to toggle between high and low sensitivity modes.

### 6.4 Alarm Behavior

- **Visual Alarm:** The LCD screen will turn red, and a bar graph will indicate increasing gas levels.
- **Audible Alarm:** A beeping sound will activate. The frequency and intensity of the alarm will increase with higher gas concentrations.
- The alarm will continue to sound until the combustible gas concentration drops below 5% of the lower explosive limit.

## 7. MAINTENANCE

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- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or immerse the device in water.
- **Battery Replacement:** Replace batteries when the low battery indicator activates (below 2.4V). Refer to Section 5.1 for installation instructions. Note that rechargeable batteries (1.2V) may not provide sufficient voltage for the device to operate correctly; alkaline batteries (1.5V) are recommended.
- **Sensor Care:** Keep the sensor tip clean and free from obstructions. Avoid exposing the sensor to extreme temperatures or harsh chemicals.

## 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not turn on.	Low or depleted batteries; incorrect battery installation; incompatible battery type.	Replace with fresh AAA alkaline batteries, ensuring correct polarity. Rechargeable batteries may not provide sufficient voltage.
Inaccurate or inconsistent readings.	Warm-up performed in a contaminated environment; sensor obstructed or dirty.	Perform warm-up in a clean, gas-free area. Clean the sensor tip.
Alarm sounds continuously.	Persistent gas leak detected.	The alarm will continue until gas concentration is below 5% LEL. Address the gas leak source immediately.
Cannot pinpoint small leaks.	Incorrect sensitivity mode.	Ensure the device is in high sensitivity mode (S button light on).

## 9. SPECIFICATIONS

Feature	Detail
Brand	TOPTES
Model	PT199
Power Source	2x AAA Batteries (included)
Product Dimensions	0.79"D x 0.79"W x 6.5"H
Item Weight	2.08 ounces
Alarm Type	Audible, Visual
Operating Humidity	95 percent
Upper Temperature Rating	122 Degrees Fahrenheit
Sensor Type	Gas Sensitive Semiconductor (GSS)
Detection Range	50-1,000 ppm (based on methane)
Detection Distance	1-5 cm

## 10. WARRANTY AND SUPPORT

TOPTES offers support for its products. If the sensor on your PT199 Gas Leak Detector is no longer working within three years from the date of purchase, please contact TOPTES customer support for assistance. For further inquiries or technical support, please contact: [support@toptesstools.com](mailto:support@toptesstools.com)

**USER MANUAL**

Please read these instructions before operating the product.

**CT-300**  
Carbon Monoxide Detector



TOPTES CE RoHS FCC

[TopTes CT-300 Carbon Monoxide Detector User Manual](#)

Comprehensive user manual for the TopTes CT-300 Carbon Monoxide Detector, covering specifications, operation, safety, maintenance, and information on carbon monoxide. Learn how to use and care for your CO detector.



[Calibration Certificate for TOPTES Guard-101 Gas Detector](#)

This document is a calibration certificate issued by Guangdong Jingheng Detection Technology Co., Ltd. for the TOPTES Guard-101 gas detector. It details the calibration results, standards used, and environmental conditions for various gas measurements including Hydrogen Sulfide, Combustible Gas, Carbon Monoxide, and Oxygen.

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