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TOPTES PT-830S

TOPTES PT-830S Rechargeable Gas Leak Detector User Manual

Model: PT-830S

Brand: TOPTES

1. INTRODUCTION

The TOPTES PT-830S is a high-precision rechargeable gas leak detector designed for both home and industrial use. It is equipped with a sensitive Figaro sensor capable of detecting gas concentrations from 0 to 10,000 ppm, making it ideal for identifying leaks of methane, propane, butane, and other combustible gases.

Key features include a 14.5-inch flexible probe for hard-to-reach areas, three distinct alarm modes (audible, visual, and vibration), a large TFT color display for real-time data, and advanced functions such as zero calibration and data storage. This manual provides essential information for safe and effective operation of your PT-830S gas leak detector.

2. SAFETY INFORMATION

Please read and understand all safety warnings and operating instructions before using the TOPTES PT-830S gas leak detector. Failure to follow these instructions may result in property damage, injury, or death.

- **Explosion Hazard:** This device is designed to detect combustible gases. Do not use it in environments with extremely high gas concentrations that could lead to an explosion. Ensure proper ventilation before and during use.
- **Battery Safety:** The device contains a non-removable Lithium-ion battery. Do not attempt to open the battery cover or replace the battery. Use only the provided charging cable.
- **Environmental Conditions:** Avoid exposing the device to extreme temperatures (outside -10°C to 55°C) or humidity (above 95% RH).
- **Maintenance:** Do not attempt to repair or modify the device. Refer all servicing to qualified personnel.
- **Accuracy:** While highly accurate, this detector is a tool for identifying potential gas leaks and should not replace professional inspection or safety protocols.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x TOPTES PT-830S Gas Leak Detector

- 1 x USB-C Charging Cable
- 1 x Storage Box
- 1 x User Manual

WIDE APPLICATION



Figure 3.1: The complete package contents of the TOPTES PT-830S Gas Leak Detector.

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your PT-830S detector:



Figure 4.1: TOPTES PT-830S Gas Leak Detector.

Flexible Probe: The 14.5-inch (approximately 37 cm) gooseneck probe allows for precise positioning of the sensor in confined or hard-to-reach areas.

14.5 inch

Flexible Probe for hard-to-reach spots

0 -
10,000
ppm

High Precision for safety Sensivity Adjustable

*Please allow $\pm 5\%$ display error

Figure 4.2: Flexible Probe and Figaro Sensor.

TFT Color Display: A large, vibrant screen provides real-time PPM values, alarm status, battery level, and other critical information. It supports two display modes: Donut PPM Graph and Curve Chart.



Figure 4.3: TFT Color Display with Multiple Views.

Control Buttons: Intuitive buttons for navigation, function selection, and power.

USB-C Port: Located at the bottom for convenient recharging.

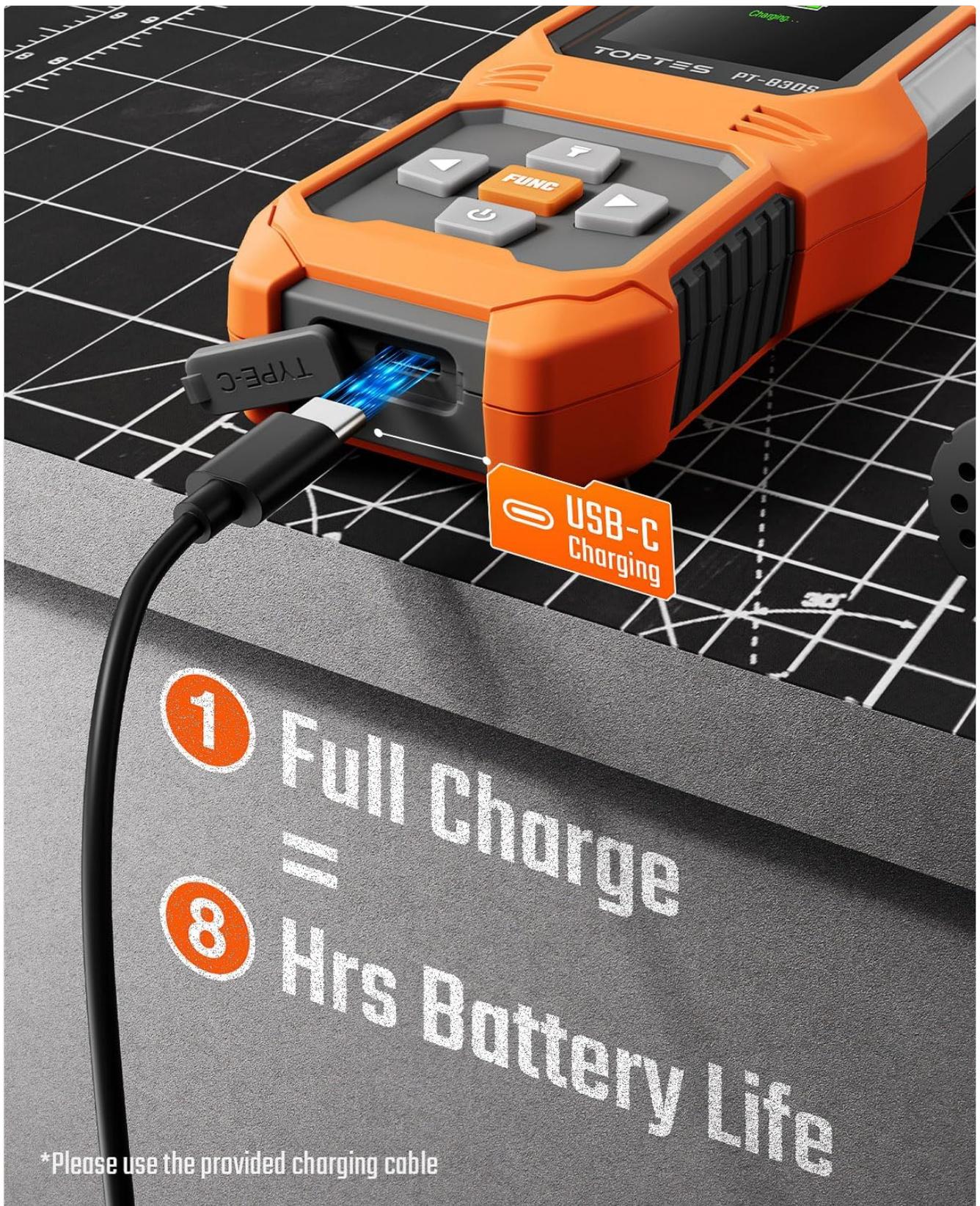


Figure 4.4: USB-C Charging Port.

LED Indicators: Visual alerts for gas detection and device status.

Built-in Flashlight: Assists in low-light conditions.

5. SETUP

5.1 Initial Charging

Before first use, fully charge the PT-830S using the provided USB-C cable. A full charge provides up to 8 hours of battery

life. The battery status is displayed on the TFT screen.

5.2 Power On and Self-Test

1. Press and hold the Power button () to turn on the device.
 2. The device will perform a self-test, checking the LCD, lights, buzzer, vibrator, and storage. Follow the on-screen prompts.
 3. After the self-test, the sensor will warm up. This process ensures accurate readings. The display will show "Sensor is warming up" and a progress bar.
 4. Once warmed up, the device will display "Ready" and show 0 PPM, indicating it is ready for use.
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6. OPERATING INSTRUCTIONS

6.1 Basic Operation

- **Power On/Off:** Press and hold the Power button () to turn the device on or off.
- **Display Modes:** Use the navigation buttons to switch between the Donut PPM Graph and Curve Chart display modes for real-time gas concentration visualization.
- **Flashlight:** Press the Flashlight button () to turn the built-in flashlight on or off.

6.2 Alarm Modes

The PT-830S features three types of alarms to alert you to gas leaks:

- **Visual Alarm:** LED indicators on the device will light up.
- **Audible Alarm:** A 90dB buzzer will sound.
- **Vibration Alarm:** The device will vibrate.

Each alarm mode can be independently enabled or disabled through the device's menu settings. A quick mute function is available to silence audible alerts during operation.

10+ Gases

Propane, Methane,
Gasoline, LPG etc



3

Types of Alarms

Visual, Audible & Vibration



Visual

+



Audible

+



Vibration

*Features One-click Mute Function

Figure 6.1: Three Types of Alarms.

6.3 Advanced Functions

- **Zero Calibration:** Ensures precise measurements by calibrating the sensor to a zero gas concentration in a clean air environment. This is crucial for professional accuracy.
- **Custom Alarm Thresholds:** Set specific high and low alarm thresholds based on your environment or industry standards to prevent unnecessary alerts.
- **Data Storage:** The device automatically saves operation and detection data, allowing for comprehensive record-keeping and review of past events.

What's In The Box



Figure 6.2: Automatic Data Records.

7. APPLICATIONS

The TOPTES PT-830S is versatile and suitable for a wide range of applications where combustible gas detection is critical:

- **Residential Use:** Detecting leaks from natural gas lines, propane tanks, and gas appliances in homes.
- **Industrial Settings:** Monitoring gas levels in oil drilling operations, chemical plants, gas transmission pipelines, and coal mines.
- **HVAC and Plumbing:** Identifying leaks in heating, ventilation, air conditioning, and plumbing systems.



Figure 7.1: Wide Application Areas.

8. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the sensor head is free from dust and debris.
- **Battery Care:** Recharge the device regularly, even if not in frequent use, to maintain battery health. Avoid fully discharging the battery for extended periods.
- **Storage:** Store the detector in its provided storage box in a cool, dry place away from direct sunlight and extreme

temperatures.

- **Sensor Longevity:** The Figaro sensor is designed for durability, but prolonged exposure to high concentrations of gas or harsh chemicals may reduce its lifespan.

9. TROUBLESHOOTING

If you encounter issues with your PT-830S detector, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Low or no battery charge.	Charge the device using the provided USB-C cable.
Inaccurate readings / Sensor not ready.	Sensor still warming up or needs calibration.	Allow sufficient warm-up time (as indicated on screen). Perform a zero calibration in fresh air.
Alarm sounds continuously in clean air.	False alarm due to residual gas or sensor drift.	Move to a well-ventilated area and perform a zero calibration.
No audible/vibration alarm.	Alarm modes disabled in settings.	Check "Alarm Settings" in the menu and enable desired modes.

For further assistance, please refer to the detailed troubleshooting section in the full user manual or contact TOPTES customer support.

10. SPECIFICATIONS

Feature	Specification
Brand	TOPTES
Model	PT-830S
Detection Range	0-10,000 ppm
Sensor Type	Figaro
Probe Length	14.5 inches (flexible gooseneck)
Alarm Modes	Visual, Audible (90dB), Vibration
Display	TFT Color Screen
Power Source	Rechargeable Lithium Polymer Battery
Battery Life	Up to 8 hours (typical)
Charging Port	USB-C
Operating Temperature	-10°C to 55°C
Operating Humidity	< 95% RH (non-condensing)

Feature	Specification
Item Weight	8.8 ounces (0.25 kg)
Product Dimensions	1.22 x 2.72 x 20.91 inches

11. WARRANTY AND SUPPORT

TOPTES products are designed and manufactured to the highest quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. For detailed warranty information, product support, or technical assistance, please visit the official TOPTES website or contact their customer service team.

TOPTES Official Website: www.toptestools.com

Email Support: support@toptestools.com