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MESTEK CGD05A

MESTEK CGD05A Gas Leak Detector User Manual

Model: CGD05A

1. Introduction

The MESTEK CGD05A Gas Leak Detector is a portable, high-precision device designed to quickly and accurately detect combustible gas leaks. Equipped with an 11.3-inch flexible gooseneck probe, it is ideal for pinpointing leaks in hard-to-reach areas within homes, HVAC systems, RVs, and industrial settings. This manual provides essential information for the safe and effective use of your gas leak detector.

2. Package Contents

Please verify that all items are present in your package:

- 1 × MESTEK CGD05A Gas Leak Detector (with built-in rechargeable high-capacity battery)
- 1 × USB-C Charging Cable
- 1 × Storage Bag
- 1 × User Manual

3. Product Overview

Familiarize yourself with the components and features of your MESTEK CGD05A Gas Leak Detector.



The MESTEK CGD05A Gas Leak Detector, accompanied by its USB-C charging cable and a protective storage bag.



Illustration of the detector's user-friendly design, highlighting features like low battery indication, ambient temperature display, automatic shut-down, data hold, and zero reset.



The detector features visual, audible, and vibration alarms to alert users to gas leaks.



The 11.3-inch flexible gooseneck probe allows for detection in hard-to-reach areas, with a response time of less than 2 seconds.



The large 2.75-inch HD VA reverse color screen provides clear digital and analog dual display for easy readability.



The device is rechargeable via a USB Type-C port, with indicators for charging and full battery status.



The detector is capable of identifying a wide range of combustible gases including methane, propane, butane, coal gas, ethanol, acetone, benzene, alcohol, acetylene, and hexane.



Detailed diagram labeling the probe, gooseneck, VA display, audible alarm key, power on/off, automatic shutdown on/off, temperature unit conversion, ZERO reset, PPM/%LEL unit switch, and charging port.



Examples of where the gas leak detector can be used, such as near water heaters, gas pipelines, home gas stoves, and industrial gas pipelines.

4. Setup

4.1 Initial Charging

Before first use, fully charge the device using the provided USB-C cable. Connect the USB-C cable to the charging port on the detector and plug the other end into a suitable USB power source. The charging indicator will turn green when charging is complete.

4.2 Power On and Warm-up

Press and hold the power button to turn on the device. The detector requires a 30-second warm-up period before it is ready for accurate detection. During this time, a countdown will be displayed on the screen.

4.3 Zero Reset (Calibration)

For optimal accuracy, perform a 'ZERO' reset in a clean air environment (free from any combustible gases). Press the 'ZERO' button to calibrate the sensor to zero. This ensures precise readings during detection.

5. Operating Instructions

5.1 Gas Leak Detection

Once the warm-up is complete and the device is zero-calibrated, extend the flexible gooseneck probe to the area suspected of a gas leak. Move the probe slowly (approximately 1 inch per second) to pinpoint the precise source of the leak. The device will react to combustible gas leaks within 2 seconds.

5.2 Alarm Indications

The MESTEK CGD05A provides visual, audible, and vibration alarms:

- **Visual Alarm:** The LCD screen will display a 'HIGH' alarm and the digital reading will increase when gas concentration is detected.
- **Audible Alarm:** The unit will emit an audible sound.
- **Vibration Alarm:** The device will vibrate.

When the detected gas leakage value is above 10% LEL (Lower Explosive Limit), the unit will sound, vibrate, and the screen will display a 'HIGH' alarm. When the detected value decreases to below 10% LEL, the alarm will stop.

5.3 Mute Function

To silence the audible alarm, short press the 'Mute Key'. Press it again to reactivate the audible alarm.

5.4 Unit Conversion

- **PPM/%LEL Conversion:** Press the 'PPM/%LEL' button to switch the gas concentration display between parts per million (PPM) and percentage of Lower Explosive Limit (%LEL). The detection range is 50-50000 PPM / 0-100% LEL (based on methane).
- **Temperature Unit Conversion:** Press the '°C/°F' button to switch the ambient temperature display between Celsius (°C) and Fahrenheit (°F).

5.5 Automatic Power-off (APO)

The device features a 10-minute automatic power-off function to conserve battery. Press the 'APO' button to activate or deactivate this function as needed.

5.6 Product Demonstration Video

Your browser does not support the video tag.

This video demonstrates the MESTEK CGD05A Gas Leak Detector's features, including warm-up time, flexible gooseneck usage, application scenarios, gas leak detection on a stove, USB-C charging, key functions, and package contents.

6. Maintenance

To ensure the longevity and accuracy of your MESTEK CGD05A Gas Leak Detector, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the detector in its protective storage bag when not in use. Keep it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Sensor Care:** Avoid exposing the sensor probe to liquids or harsh chemicals. Ensure the sensor head is free from dust and debris.
- **Battery:** Recharge the battery regularly, especially if the device will not be used for an extended period.

7. Troubleshooting

If you encounter issues with your gas leak detector, refer to the following common solutions:

- **No Reading or Inaccurate Reading:**
  - Ensure the device has completed its 30-second warm-up period.
  - Perform a 'ZERO' reset in a clean air environment to recalibrate the sensor.
  - Check the sensor probe for any physical obstructions or damage.
- **No Alarm (Audible/Vibration):**
  - Verify that the audible alarm is not muted by pressing the 'Mute Key'.
  - Check the battery level; low battery can affect alarm functionality.
- **Device Not Powering On:**

- Ensure the battery is fully charged. Connect the device to the USB-C charger.
- If the issue persists after charging, contact customer support.

8. Specifications

Model Number	CGD05A
Detection Range	50-50000 PPM / 0-100% LEL (based on Methane)
Response Time	< 2 seconds
Warm-up Time	30 seconds
Probe Length	11.3 inches (Flexible Gooseneck)
Display	2.75-inch HD VA Reverse Color Screen (Digital & Analog Dual Display)
Alarms	Visual, Audible, Vibration
Power Source	Rechargeable 3.7V Lithium Battery (USB Type-C Charging)
Automatic Power-off	10 minutes (toggleable)
Dimensions	20.07 x 3.81 x 9.91 cm
Weight	363 g

9. Warranty and Support

The MESTEK CGD05A Gas Leak Detector is backed by a 36-month manufacturer warranty. MESTEK also provides lifetime customer support to ensure your satisfaction. For technical assistance, warranty claims, or any inquiries, please refer to the contact information provided in the full user manual or visit the MESTEK official website.

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