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› YPMart SKZ2054C Ethylene Gas Detector User Manual

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Model: SKZ2054C

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of the YPMart SKZ2054C Infrared Ethylene Gas Detector. Please read this manual thoroughly before using the device to ensure proper function and safety.

T H E C H O I C E O F A N E W G E N E R A T I O N

SKZ2054C

PORTABLE GAS DETECTOR



- ✓ Can detect 1-5 gases.
- ✓ Real time value, TWA, STEL multiple display.
- ✓ ATEX explosion-proof, Protection level IP67.
- ✓ Multi-safety alarm, man down alarm warning.

VIEW MORE



The SKZ2054C portable gas detector is shown with its LCD screen, illustrating its compact design and highlighting its ability to detect 1-5 gases, real-time value display, ATEX explosion-proof rating, IP67 protection, and multi-safety alarm functions.

2. PRODUCT FEATURES

- **Reliable Gas Meter:** Complies with EU regulations 2004/108/EC (EMC), 1995/5/EC (Radio), and 94/9/EC (ATEX), ensuring high safety and performance standards.
- **Robust Protection:** Features an IP67 protection grade, making it suitable for harsh environments with a working temperature range of -20°C to +50°C and humidity tolerance up to 90% RH (non-condensing).
- **Compact and Lightweight Design:** Measures 157x84.5x59.5mm and weighs 365g (including battery, belt clip, and filter), ensuring easy handling and transport.
- **Advanced Measurement Capabilities:** Utilizes infrared principles for accurate readings with a measurement range of 0-100% LEL (0-3% Vol) for efficient gas level monitoring.

- **User-Friendly LCD Display:** Equipped with a clear LCD screen for easy-to-read measurements and data, enhancing usability for reliable gas detection.

3. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or death.

- Always operate the device in accordance with local safety regulations and procedures.
- Ensure the device is properly calibrated before each use, especially in critical environments.
- Do not expose the device to extreme temperatures, corrosive chemicals, or excessive moisture beyond its specified operating conditions.
- Never attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Keep the sensor area clean and free from obstructions to ensure accurate readings.
- Be aware of the alarm thresholds and understand the appropriate response actions when an alarm is triggered.

4. PRODUCT OVERVIEW AND PACKAGE CONTENTS

The SKZ2054C detector comes with the main unit and essential accessories for immediate use.



This image displays the front and back of the SKZ2054C gas detector, highlighting key components such as the LED light, sensor area, display window, power button, navigation keys (N and Y+), audible alarm (warbler), water trap filter, back splint, LED alarm light, and the charging/data port.



The SKZ2054C gas detector is shown alongside its robust carrying case, emphasizing its portability and protection during transport and storage.

Package Contents:

- SKZ2054C Gas Detector Unit
- Protective Carrying Case
- Charging Cable
- User Manual (this document)
- Belt Clip (pre-installed or separate)
- Water Trap Filter (pre-installed or separate)

5. SETUP

5.1 Initial Inspection

Upon unpacking, inspect the device for any visible damage. Ensure all components listed in the package contents are present.

5.2 Charging the Device

Connect the charging cable to the charging/data port on the device and to a suitable power source. The LED indicator will show charging status. Ensure the device is fully charged before first use.

5.3 Powering On/Off

- **To Power On:** Press and hold the **Power button** until the display illuminates.
- **To Power Off:** Press and hold the **Power button** until the device shuts down.

5.4 Basic Navigation

Use the **[N] key** and **[Y/+]** key to navigate through menus and adjust settings on the LCD display.

6. OPERATING INSTRUCTIONS

6.1 Understanding the Display

The LCD screen provides real-time gas concentration readings, unit of measurement (e.g., PPM, %LEL, %VOL), battery status, and alarm indicators. Familiarize yourself with the layout shown in the product overview.

PRODUCT DETAILS

Multi sampling function

Suction and diffusion dual purpose instrument.



Interface humanization

Simple and atmospheric user interface humanized interaction.



This image illustrates the multi-sampling capability of the SKZ2054C, supporting both suction and diffusion methods. It also highlights the humanized, simple, and atmospheric user interface for easy interaction.

6.2 Gas Detection Process

Once powered on, the device will perform a self-test. After the self-test, it will enter detection mode, continuously monitoring the ambient air for ethylene (C₂H₄) gas. The current concentration will be displayed on the LCD screen.

6.3 Alarm Functions

The SKZ2054C features multiple alarm types:

- **Audible Alarm (Warbler):** A loud sound indicates a gas concentration exceeding a set threshold.
- **Visual Alarm (LED Alarm Light):** Flashing LED lights provide a visual warning.
- **Vibration Alarm:** The device vibrates to alert the user, especially in noisy environments.
- **Fall Alarm:** The device includes a fall alarm function to enhance safety for workers.

When an alarm is triggered, immediately follow your organization's safety protocols for gas detection. Do not ignore

alarms.



The image shows the ergonomic design of the SKZ2054C, featuring a convenient back clip for easy portability. It also depicts the multiple security protection, including a fall alarm function designed to enhance worker safety.

7. MAINTENANCE

7.1 Cleaning

Regularly clean the exterior of the device with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the sensor area and water trap filter are free from dust and debris.

7.2 Sensor Care

The infrared sensor is a critical component. Avoid touching the sensor directly. If the water trap filter becomes clogged or damaged, replace it promptly to maintain accurate readings and protect the sensor.

7.3 Battery Maintenance

To prolong battery life, charge the device regularly and avoid fully discharging it frequently. Store the device in a cool, dry place when not in use for extended periods.

7.4 Calibration

Periodic calibration is essential to ensure the accuracy of the gas detector. Refer to the device's on-screen menu or contact YPMart support for detailed calibration procedures and recommended intervals.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery or faulty battery.	Charge the device. If problem persists, contact support.
Inaccurate readings.	Sensor obstruction, dirty filter, or calibration required.	Clean sensor area and filter. Perform calibration.
Alarm triggers frequently without gas presence.	Sensor contamination or calibration issue.	Clean sensor. Perform calibration. If issue persists, contact support.
Display is blank or frozen.	Software error or hardware malfunction.	Attempt to restart the device. If unsuccessful, contact support.

For issues not listed here, please contact YPMart customer support.

9. SPECIFICATIONS

Model Number	SKZ2054C
Gas Type Detected	C2H4 (Ethylene)
Detection Principle	Infrared principle
Measurement Range	0-100% LEL (0-3% Vol)
Protection Grade	IP67
Working Temperature	-20°C to +50°C
Humidity	0~90% RH (no condensation)
Environmental Pressure	86~106 Kpa
Dimensions (L*W*H)	157 x 84.5 x 59.5 mm (including back clip/water trap filter)
Weight	365g (including battery, belt clip, and filter)
Display	LCD Screen
Certifications	EU regulations 2004/108/EC (EMC), 1995/5/EC (Radio), 94/9/EC (ATEX)

10. WARRANTY AND SUPPORT

YPMart provides a standard manufacturer's warranty for this product. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official YPMart website.

For technical support, troubleshooting assistance, or service inquiries, please contact YPMart customer service. Have your product model number (SKZ2054C) and purchase information ready when contacting support.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question