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ZJchao PM6501

ZJchao PEAKMETER PM6501 Digital Thermometer User Manual

Model: PM6501

Introduction

This manual provides instructions for the safe and effective use of the ZJchao PEAKMETER PM6501 LCD Digital Instant-Read Thermometer. This instrument is a portable, K-type digital thermometer designed for accurate temperature measurement. Please read this manual thoroughly before operation and retain it for future reference.

Safety Information

- Always operate the thermometer within its specified measurement range.
- Do not expose the device to extreme temperatures, humidity, or direct sunlight for prolonged periods.
- Ensure the battery compartment is securely closed during operation.
- Replace batteries promptly when the low battery indicator appears to maintain accuracy.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to modify or disassemble the thermometer, as this will void the warranty and may cause damage or injury.
- Keep the device away from children.

Product Overview

The PEAKMETER PM6501 is a compact and reliable digital thermometer. It features an LCD display, function buttons, and a port for a K-type thermocouple sensor probe.



Image: Front view of the PEAKMETER PM6501 Digital Thermometer, showing the LCD display, 'HOLD' and 'RANGE' buttons, and the °C/OFF/°F switch.



Image: Angled view of the PEAKMETER PM6501 Digital Thermometer, highlighting its compact design and button layout.

Your browser does not support the video tag.

Video: An overview of the PEAKMETER PM6501 LCD Digital Thermometer, demonstrating its features and K-type thermocouple sensor.

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Video: A short demonstration of the ZJchao LCD Digital Thermometer with its K-Type Thermocouple Sensor.

Setup

1. Battery Installation

The thermometer requires two 1.5V AAA batteries (not included). Follow these steps to install them:

1. Locate the battery compartment cover on the back of the device.

2. Slide the cover downwards to open the compartment.
3. Insert two AAA batteries, ensuring correct polarity (+ and -).
4. Replace the battery compartment cover by sliding it back into place until it clicks securely.



Image: Rear view of the PEAKMETER PM6501 showing the open battery compartment and the battery cover with instructions.

2. Connecting the Thermocouple Probe

The device uses a K-type thermocouple sensor probe for temperature measurement.

1. Identify the K-type input port at the top of the thermometer.
2. Carefully insert the K-type thermocouple probe into the port, ensuring a firm connection.



Image: The PEAKMETER PM6501 thermometer with the K-type thermocouple probe connected to the top port, displaying a temperature reading.

Operating Instructions

1. Power On/Off

- To power on the device, slide the central orange switch from 'OFF' to either '°C' or '°F'.
- To power off, slide the switch back to 'OFF'.

2. Temperature Unit Selection

- Slide the central orange switch to '°C' for Celsius readings or '°F' for Fahrenheit readings.

3. Taking a Measurement

1. Ensure the K-type thermocouple probe is securely connected.
2. Turn on the thermometer and select your desired temperature unit (°C or °F).
3. Place the tip of the thermocouple probe in contact with the object or environment you wish to measure.
4. Allow a few seconds for the reading on the LCD display to stabilize.

4. Data Hold Function

- Press the **HOLD** button to freeze the current temperature reading on the display.
- Press the **HOLD** button again to release the data hold and resume live measurement.

5. Range Button (Not applicable for this model)

The 'RANGE' button is typically used on multimeters or more advanced thermometers to manually select measurement ranges. For the PM6501, the range is automatically handled by the device for temperature measurement. This button may be present for other functions in different models or for future compatibility but does not affect basic temperature measurement on the PM6501.

Maintenance

1. Cleaning

- Wipe the device exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the device is completely dry before storage or next use.



Image: The PEAKMETER PM6501 thermometer with its protective orange silicone boot removed, showing the main unit. This view is useful for cleaning the device body.

2. Battery Replacement

When the low battery indicator appears on the display, replace the batteries as described in the "Battery Installation" section under Setup.

3. Storage

- Store the thermometer in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for an extended period, remove the batteries to prevent leakage.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace with new AAA batteries.
Inaccurate temperature readings.	Loose thermocouple connection, damaged probe, or out of range measurement.	Ensure probe is firmly connected. Inspect probe for damage. Verify measurement is within the device's specified range.
Display shows "OL" or "---".	Temperature is outside the measurement range (Overload).	Move the probe to an area within the specified temperature range.
Display is dim or flickering.	Low battery power.	Replace batteries.

Specifications

The following are the technical specifications for the PEAKMETER PM6501 Digital Thermometer:

Feature	Detail
Model Name	PM6501
Measurement Range	-50 ~ 750 °C / -58 ~ 1382 °F
Accuracy	± (1.0% + 3) for 0°C ~ 750°C; ± (1.0% + 5) for 32°F ~ 1380°F
Display Type	LCD
Power Source	2 x 1.5V AAA Batteries
Response Time	500 Milliseconds
Dimensions	Approximately 3.9 x 1.8 x 0.66 inches (12 cm x 6.1 cm x 2.5 cm)
Item Weight	3.52 ounces
Included Components	1 x Digital Temperature Meter, 1 x Storage Bag, 1 x K-Type Thermocouple Probe
Safety Rating	CE, RoHS



Image: The PEAKMETER PM6501 thermometer displaying its physical dimensions in centimeters and inches.

Warranty and Support

This product is manufactured by PEAKMETER and distributed by ZJchao. For specific warranty information and customer support, please refer to the documentation included with your purchase or contact the seller directly. Keep your purchase receipt as proof of purchase.

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