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VOLT CRAFT PTM-200

VOLT CRAFT PTM-200 Plug-in Thermometer

INSTRUCTION MANUAL

Brand: VOLT CRAFT | Model: PTM-200

Introduction

The VOLT CRAFT PTM-200 is a highly versatile plug-in thermometer designed for precise temperature measurements across a wide range. It is ideal for use in liquids, gases, and for determining core temperatures in various professional and domestic settings, including quality control, laboratory work, and culinary applications.

This device offers a measurement range from **-200 °C to +200 °C** with a high resolution of **0.1 °C**. Key features include a clear display with white backlight, a robust **Pt1000 sensor**, and **IP65 water resistance**, ensuring durability and reliability. The integrated Max/Min function allows for tracking temperature extremes during a measurement period. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your PTM-200 thermometer.

Package Contents

- VOLT CRAFT PTM-200 Thermometer Unit
- Pt1000 Measurement Sensor (3.5 mm diameter)
- 9V Battery
- Instruction Manual

Safety Instructions

- Read this manual thoroughly before first use.
- Do not expose the device to extreme temperatures or direct sunlight for prolonged periods.
- Ensure the battery compartment is securely closed to maintain IP65 water resistance.
- Handle the sensor probe with care to avoid injury or damage.
- Keep the device out of reach of children.
- Do not attempt to modify or disassemble the device.

Setup

1. Battery Installation:

Locate the battery compartment on the back of the thermometer unit. Open the compartment cover. Insert the supplied 9V battery, ensuring correct polarity (+/-). Close the battery compartment cover securely to maintain the device's water resistance.



Image: The VOLT CRAFT PTM-200 thermometer unit, showing the main display, control buttons, the connected Pt1000 sensor probe, and a 9V battery. This illustrates the components included and ready for setup.

2. Sensor Connection:

Connect the Pt1000 measurement sensor cable to the designated port on the top of the thermometer unit. Ensure the connection is firm and secure.

3. Initial Power-On:

Press the red power button to turn on the device. The display should illuminate, and a temperature reading will appear.

Operating Instructions

1. Powering On/Off:

Press the red power button () to turn the thermometer on. Press and hold the same button for a few seconds to turn it off.

2. Taking Measurements:

Insert the Pt1000 sensor probe into the substance or area where you wish to measure the temperature. Allow a few moments for the reading to stabilize on the display. The white backlight

ensures clear visibility in various lighting conditions.



Image: The VOLTcraft PTM-200 thermometer with its display showing a temperature reading of 23.4 °C. The Pt1000 sensor is attached and ready for use, demonstrating the device in operation.

3. Max/Min Function:

Press the "MAX/MIN" button to cycle through the maximum recorded temperature, minimum recorded temperature, and current temperature. This function is useful for monitoring temperature fluctuations over time.

4. Backlight Control:

Press the light bulb button () to activate or deactivate the white backlight for the display.

5. Water Resistance (IP65):

The device is rated IP65, meaning it is protected against dust ingress and low-pressure water jets from any direction. This makes it suitable for use in environments where it may be exposed to splashes. However, it is not designed for immersion in water.

Maintenance

- **Cleaning:**

Wipe the thermometer unit and sensor probe with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the device. Ensure the sensor is clean before and after each use for accurate readings.

- **Battery Replacement:**

When the battery warning indicator appears on the display, replace the 9V battery as described in the "Setup" section. Always dispose of used batteries responsibly.

- **Storage:**

Store the thermometer in a dry, cool place, away from direct sunlight and extreme temperatures. Disconnect the sensor probe if storing for extended periods.

Troubleshooting

Problem	Possible Cause	Solution
Device does not turn on.	Battery is depleted or incorrectly installed.	Check battery polarity or replace the 9V battery.
Inaccurate temperature readings.	Sensor probe is dirty or damaged; improper contact with substance.	Clean the sensor probe. Ensure the probe is fully immersed or making good contact. Check for visible damage to the sensor or cable.
Display is dim or flickering.	Low battery.	Replace the 9V battery.
"Err" message on display.	Sensor error or out of measurement range.	Ensure the sensor is properly connected. Check if the temperature is within the -200 °C to +200 °C range. If the problem persists, the sensor may be faulty.

If you encounter problems not listed here or if solutions do not resolve the issue, please contact customer support.

Specifications

Model:	PTM-200 (VC-12920030)
Measurement Range:	-200 °C to +200 °C
Resolution:	0.1 °C
Sensor Type:	Pt1000
Display:	LCD with white backlight
Protection Class:	IP65 (Dust tight and protected against low-pressure water jets)
Power Supply:	9V battery
Dimensions (L x W x H):	7.3 x 3 x 12.1 cm
Weight:	208.5 g
Manufacturer:	VOLTCRAFT
First Available:	25 January 2024

Warranty

The VOLTCRAFT PTM-200 thermometer comes with a warranty period of a minimum of **2 years** from the date of purchase. This warranty covers manufacturing defects and ensures that your product functions as intended under normal use. Please retain your proof of purchase for any warranty claims.

Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact your retailer or the VOLTCRAFT customer support. Refer to the contact information provided with your purchase or visit the official VOLTCRAFT website for support details.