

Comark KM28KIT

Comark KM28 Thermocouple Kit User Manual

Model: KM28KIT

1. INTRODUCTION

This manual provides instructions for the safe and effective use of the Comark KM28 Thermocouple Kit. This kit is designed for accurate temperature measurement, particularly in food service applications, and includes the KM28 thermometer, a PK19M probe, and a CRS/5 protective boot.

Please read this manual thoroughly before operating the device and retain it for future reference.



Figure 1: The Comark KM28 Thermocouple Kit, showing the KM28 thermometer unit, the PK19M probe, and the red coiled cable connecting them. The thermometer is encased in a blue protective boot.

2. KIT COMPONENTS

The Comark KM28 Thermocouple Kit includes the following items:

- **KM28 Thermometer:** The main display unit for temperature readings.
- **PK19M Probe:** A Type K thermocouple probe for temperature sensing.
- **CRS/5 Protective Boot:** A durable blue silicone boot designed to protect the KM28 thermometer.



Figure 2: Close-up view of the Comark KM28 thermometer unit, displaying "155.0 °F" and featuring "On/Off" and "°C/°F" buttons.



Figure 3: The PK19M thermocouple probe, featuring a blue handle, a stainless steel shaft, a red coiled cable, and a yellow sub-miniature connector.

3. SETUP INSTRUCTIONS

3.1. Battery Installation

1. Ensure the thermometer is powered off.
2. Carefully remove the CRS/5 protective boot if it is already installed.
3. Locate the battery compartment cover on the back of the KM28 thermometer.
4. Open the cover and insert one 9V IEC 6LF22 alkaline battery, observing the correct polarity (+/-).
5. Close the battery compartment cover securely.

3.2. Attaching the Probe

1. Identify the sub-miniature connector on the PK19M probe cable.
2. Locate the corresponding input port on the KM28 thermometer.
3. Gently insert the probe connector into the thermometer's port until it is firmly seated.

3.3. Installing the Protective Boot

Slide the CRS/5 protective boot over the KM28 thermometer unit. Ensure all buttons and the display are accessible and the boot fits snugly to provide maximum protection.

4. OPERATING INSTRUCTIONS

4.1. Powering On/Off

- To power on the thermometer, press the **On/Off** button.
- To power off, press and hold the **On/Off** button until the display turns off. The device also features an auto switch-off function to conserve battery life.

4.2. Temperature Measurement

1. Ensure the probe is securely connected to the thermometer.
2. Power on the device.
3. Insert the tip of the PK19M probe into the substance or area where temperature measurement is required. Ensure the probe tip is fully immersed or in firm contact for accurate readings.
4. Wait for the reading on the display to stabilize.

4.3. Switching Temperature Units (°C/°F)

To switch between Celsius (°C) and Fahrenheit (°F), press the **°C/°F** button while the thermometer is powered on.

4.4. Countdown Timer

The KM28 thermometer includes a countdown timer function. Refer to the full Comark KM28 manual for detailed instructions on setting and using the timer, as specific steps are not provided in this kit overview.

5. CARE AND MAINTENANCE

5.1. Cleaning

The KM28 thermometer and PK19M probe are water resistant and designed for easy cleaning. To clean:

- Wipe the thermometer and probe with a damp cloth and mild detergent.
- Do not submerge the thermometer unit in water, despite its water-resistant properties. The probe can be rinsed directly.
- Ensure all components are thoroughly dried before storage or next use.

5.2. Battery Replacement

When the battery indicator appears on the display, replace the 9V battery as described in Section 3.1. Prompt battery replacement ensures continued accuracy and functionality.

5.3. Storage

Store the Comark KM28 Thermocouple Kit in a clean, dry place away from extreme temperatures and direct sunlight. Keep the protective boot on the thermometer when not in use to prevent damage.

6. TROUBLESHOOTING

If you encounter issues with your Comark KM28 Thermocouple Kit, refer to the following common problems and solutions:

- **No Display:**
 - Check if the battery is correctly installed and has sufficient charge. Replace if necessary.
 - Ensure the **On/Off** button has been pressed firmly.
- **Inaccurate Readings:**
 - Verify the probe is securely connected to the thermometer.
 - Ensure the probe tip is properly immersed or in full contact with the substance being measured.
 - Check for any visible damage to the probe cable or tip.
 - Confirm the thermometer is operating within its specified temperature range.
- **Buttons Unresponsive:**
 - Remove the protective boot and check if any debris is obstructing the buttons.
 - Try replacing the battery.

If problems persist, contact Comark customer support for further assistance.

7. SPECIFICATIONS

Comark KM28 Thermocouple Kit Specifications

Model	KM28KIT
Thermometer Type	Type K Thermocouple
Measurement Range (°C)	-40°C to 500°C
Measurement Range (°F)	-40°F to 1000°F
Instrument Accuracy	-30°C to +110°C (-22°F to +230°F): ±1°C/2°F Full Range: ±3% of reading
Resolution	0.1° up to +190°C / +374°F, then 1° above
Operating Temperature Range	0°C to 50°C (32°F to 122°F)
Battery Type	9V IEC 6LF22 Alkaline
Battery Life	Approximately 300 hours
Special Features	Countdown timer, Water resistant, Membrane keypad, Auto switch-off
Probe Connector	Sub-miniature
Product Dimensions	168 x 1 x 1 inches (Note: This dimension seems to be for the package or a combined item, not the thermometer itself. Refer to manufacturer for precise unit dimensions.)
Item Weight	14.4 ounces
UPC	095969433419

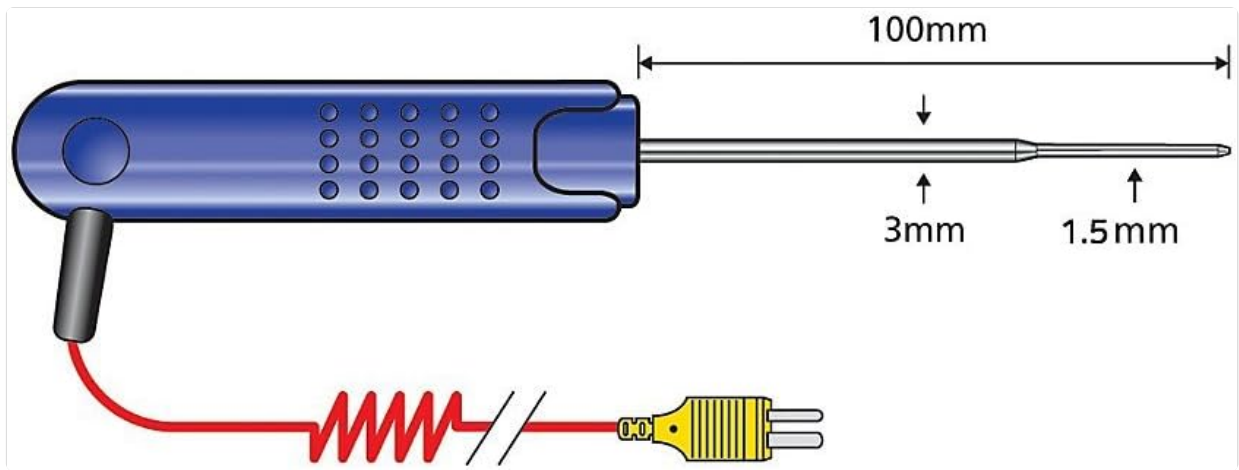


Figure 4: Dimensional diagram of the PK19M probe, indicating a total length of 100mm for the metal shaft, with a diameter of 3mm tapering to 1.5mm at the tip.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Comark KM28 Thermocouple Kit, please contact Comark Instruments directly or visit their official website. Details on specific warranty periods and terms are typically provided with the product packaging or on the manufacturer's website.

Manufacturer: Comark

© 2023 Comark Instruments. All rights reserved.

This manual is for informational purposes only. Comark reserves the right to make changes to product specifications without prior notice.