

TMP70

Thermocouple Thermometer



Introduction

Welcome, and congratulations on your purchase of the Triplet TMP70 Thermocouple Thermometer. The TMP70 is a versatile single-input thermometer designed for professional applications requiring high-accuracy temperature measurements. Compatible with Type J, K, and T thermocouples, it offers a wide range of measurements up to 2502°F (1372°C) and features a large backlit LCD, MAX/MIN memory, Data Hold, and user calibration adjustment. Ideal for HVAC, industrial, laboratory, and food safety use, the TMP70 delivers reliable performance with user-selectable °F/°C/K units and built-in power-saving functions.

What's in the box:

- TMP70
- (1) Type K Thermocouple
- (1) 9V Battery
- USB cable
- Case

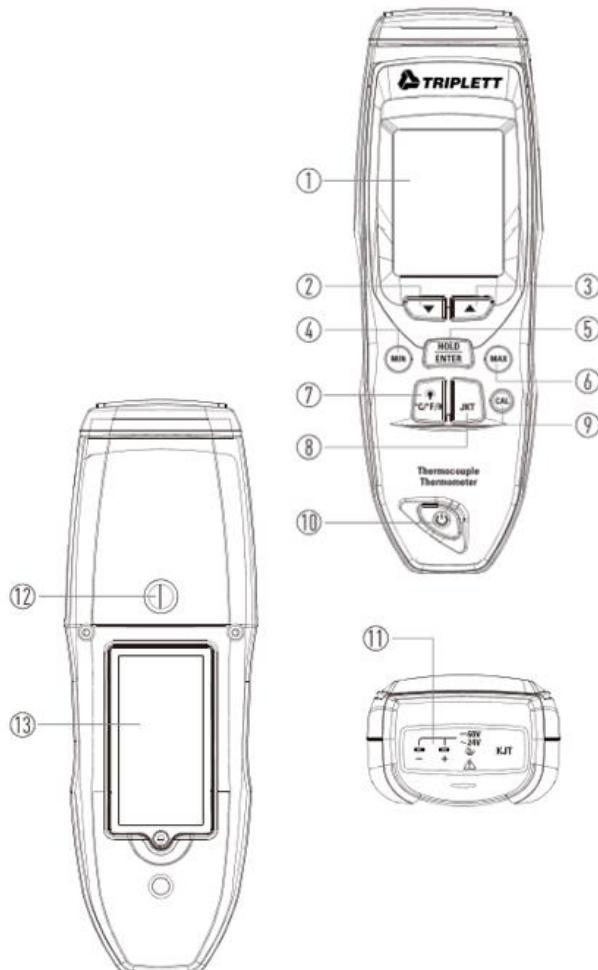
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For the most recent version of this user manual, always visit the Triplet website: www.triplett.com and search for **TMP70**.

Description

Meter Description

1. LCD Display
2. Down Button
3. Up Button
4. MIN Button
5. Data Hold/Enter Button
6. MAX Button
7. Temperature Units (°C/°F/K)/Backlight Button
8. Type J, K, T Select Button
9. Calibration Button
10. Power Button
11. Temperature Probe (Thermocouple) Input
12. Tripod Mount
13. Battery Cover



LCD Display

1. Type J, K, T Icon
2. HOLD and Display Readings
3. Low Battery Indication
4. Primary Display
5. Temperature Units
6. MAX Temperature
7. MIN Temperature
8. Current MAX or MIN Temperature Display Value



Operation

Getting Started

Temperature Measurement

- Insert the temperature probe and press the power button.
- The screen will display the current measured value and the maximum temperature.
- When the environmentally measured temperature changes, it takes a few minutes to stabilize the reading.

NOTE: After measuring high temperatures, do not touch the probe immediately to avoid burns.

Button Operation


- Press the **Power** Button to turn the meter **ON/OFF**.
- Press the **Temperature Units (°C/°F/K)/Backlight Button** to switch temperature unit, press the button for 2 seconds to turn the backlight On and Off.
- Press the **Type J, K, T Select Button** to switch J, K, T and change the related temperature probe.
- Press the **MIN** Button the LCD will show “**MIN**” icon and min measured value.
- Press the **MAX** Button the LCD will show “**MAX**” icon and max measured value.
- Press the **Data Hold/Enter** Button to hold the current measured temperature value. Press the button again to return to normal measurement mode.
- Press the **Calibration** Button for 3 sec. to enter user calibration mode, press the **Up** Button and 0.1°C will be added to the temperature. Press the **Down** Button and 0.1°C will be deducted. Press the Calibration Button to save the value and return to normal measurement mode.




Note: That the max value of adding and decreasing will be 5°C, the subsequent measurements will be combined with the calibrated value.

- **Simultaneously press the Up and Down Button** to recalculate the maximum and minimum values. The maximum and minimum values of the actual measured temperature will be calculated again when you press the buttons again.
- Press the **Power** Button first, and then press the Data **Hold/Enter** Button for 1 sec., the LCD will show APO ON or APO OFF (APO ON means the thermometer will auto power off after 15 mins without any operation, APO OFF means auto power off is turned off).

Replacing the Battery:

- If the  icon appears on the LCD display, the battery should be replaced promptly.
- Open the battery cover and remove the old battery, put in a new battery (9-volt battery NEDA 1604 or 6F22 or other similar battery).
- If the thermometer is not used for a long time, please take out the battery to prevent battery leakage

Specifications

Feature	Description
Temperature Range	
Type J	-328° to 1832°F (-200° to 1000°C)
Type K	-418° to 2502°F (-250° to 1372°C)
Type T	-418°F to 752°F (-250° to 400°C)
Measurement Accuracy	+/-1% of reading +1.8°F (1°C) below -148°F (-99.9°C) +/-1% of readings + 0.9°F (0.5°C) above -148°F (-99.9°C)
Display Resolution	0.1°F/°C from -148 to 1832°F (-99.9 to 999.9°C) 1°F/°C Outside of this range.
Sampling Rate	3 times per two seconds
Auto Power Off	15 minutes after inactivity
Low Battery Indication	
Battery Requirement	(1) 9V Battery
Temperature Unit	°F / °C switchable
Display	180° auto-rotating backlit screen
Over Range Indication	“OL”
Probe Disconnected/Poor Contact	Displays as “- -”
Dimensions	7.3 x 2.6 x 1.8 (185 x 65 x 45 mm)
Weight	8.7oz (248g)

Warranty Statement

Triplett Test Equipment offers a two-year warranty to the original purchaser of its products. We guarantee that our products will be free from defects in workmanship and materials for two (2) years from the purchase date.

This warranty does not cover:

- Products purchased from unauthorized distributors.
- Items that have been repaired or altered by unauthorized individuals.
- Damage from misuse, abuse, misapplication, negligence, or accidents.
- Products with altered, defaced, or removed serial numbers.
- Accessories, including batteries.

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