

# TMP72 Dual-Input Thermocouple Thermometer

High-accuracy thermometer designed for 7 types of thermocouples

## Key Features

### Dual input

(T1, T2) for Type J/K/T/E/S/R/N thermocouples

### High accuracy

Type J/K/T:  $\pm 1\%$  of reading + 1.8°F (1°C)

Type E/S/R/N:  $\pm 1\%$  of reading + 3.6°F (2°C)

### Resolution

0.1°F/°C up to 1000°, 1° above

### Differential temperature measurement

Two K-type inputs (T1-T2) for differential measurement

### Standard Features

Max/Min/Avg, Data Hold, and Hi/Lo Alarms

### Display

LCD with backlight

### Sampling rate

Adjustable, 1 second to 60 minutes

### Data

USB interface with data logging (up to 16,000 readings)

### Power management

Auto Power Off and Low Battery Indicator

### Optional Model

Complete with Certificate of Traceability to N.I.S.T.

### Includes

Two type K thermocouples, PC software, USB cable, 9V battery, and a carrying case



## Applications

- Equipment temperature diagnostics
- Environmental testing and monitoring
- Heating/cooling system validation
- Laboratory research
- Food storage and transport temperature checks
- Industrial process monitoring

## Users

- HVAC Technicians
- Calibration Labs
- Industrial Maintenance Professionals
- Food Safety Inspectors
- Electronics and PCB Manufacturers
- Research and Education Facilities

# TMP72 Dual-Input Thermocouple Thermometer

High-accuracy thermometer designed for 7 types of thermocouples

The TMP72 is a high-accuracy thermometer designed for Type K/J/T/E/S/R/N thermocouples. With dual input channels, fast response time, and a built-in data logger with USB interface, it is ideal for demanding temperature measurement tasks across various industries. A rugged holster ensures durability in field and laboratory environments.

## Specifications

Thermocouple Compatibility	Type K, Type J, Type T, Type E, Type S, Type R, Type N
Input Channels	Dual (T1, T2)
Temperature Range	Type J: -328°F to 1832°F (-200°C to 1000°C), Type K: -418°F to 2501°F (-250°C to 1372°C) Type T: -418 to 752°F (-250 to 400°C), Type E: -328 to 1814°F (-200 to 990°C), Type S: 32 to 3200°F (0 to 1760°C), Type R: 32 to 3200°F (0 to 1760°C), Type N: -328 to 2354°F (-200 to 1290°C)
Accuracy	Type J/K/T: $\pm 1\%$ of reading + 1.8°F (1°C) Type E/S/R/N: $\pm 1\%$ of reading + 3.6°F (2°C)
Resolution	0.1(°F/°C) from -148 to 1832°F (-99.9 to 999.9°C); 1(°F/°C) outside range
Response Time	< 300 ms
Display	Backlit LCD
Data Logger Memory	16,000 readings
Interface	USB
Sampling Rate	Adjustable (1 sec to 60 min)
Differential Temperature	Yes (T1-T2)
Alarms	Hi/Lo Audible Alarms
Auto Power Off	15 minutes of inactivity
User Calibration	$\pm 0.10^\circ\text{F}$ to $\pm 9.0^\circ\text{F}$ ( $\pm 0.10^\circ\text{C}$ to $\pm 5.0^\circ\text{C}$ )
Power Supply	9V Battery
Dimensions (HxWxD)	7.3 x 2.6 x 1.8 (185 x 65 x 45 mm)
Weight	8.7oz (248g)
EMC Compliance	EN:61326

## Ordering Information:

**TMP72** Dual-Input Thermocouple Thermometer

**TMP72-NIST** TMP72 including Certificate of Traceability to N.I.S.T.

## What's in the Box?

- TMP72
- Two type K thermocouples
- PC software
- USB cable
- 9V battery
- Case

