

# Thermocouple Thermometer



**K/J/E/T/R/S/N Type**  
**1 Channel**  
**0.01Resolution**  
**High Accuracy**

**RTM1101**



**K/J/E/T/R/S/N Type**  
**2 Channels**  
**0.01Resolution**  
**High Accuracy**

**display values of 2 channels and T1-T2/T2-T1 at the same time**

**RTM1102**



**K/J/E/T/R/S/N Type**  
**2 Channels**  
**0.01Resolution**  
**High Accuracy**

**display values of 3 channels at the same time**

**RTM1103**

**Model** RTM1101 (1 Channel)  
 RTM1102 (2 Channels)  
 RTM1103 (3 Channels)

## Introduction

It is a high-precision of digital thermocouple thermometer, which uses thermocouples as sensors to measure temperature signals, can meet the needs of different industries. Used to measure the temperature of liquids, gases, solids and surface temperature. And there are a variety of thermocouple types to choose from, which are widely used in industrial production, research and development experiments, quality control, refrigerated storage, automobile manufacturing and other occasions.

## Features

- Large LCD with display.
- Thermocouple(E/J/K/N/R/S/T) temperature measurement.
- Temperature unit (°F/°C).
- 0.01 resolution, High accuracy.
- Maximum and minimum values display.
- With the displayed values hold function.
- Automatically power off.
- It is able to display measurement values of 2 channels and T1-T2/T2-T1 value difference at the same time(RTM1102).
- It is able to switch the types of 2 channels simultaneously(RTM1102).
- It is able to switch the types of 3 channels simultaneously(RTM1103).
- It is able to display measurement values of 3 channels at the same time(RTM1103).





## Specifications

Model	RTM1101	RTM1102	RTM1103
	Main Unit		
Standard Accessories	TP-02 Thermocouple		
	Manual		
	Carrying Case		

Model	RTM1101	RTM1102	RTM1103
Optional Accessories	TP-03 Thermocouple		
	TP-04 Thermocouple		
	TP-202 Thermocouple		

Model	RTM1101	RTM1102	RTM1103
Display	LCD		
Thermocouple Temperature	K-type	Range	-200~1372°C (-328~2501.6°F)
		Accuracy	>-100°C, ±(0.1%Num + 0.5°C) <-100°C, ±(0.3%Num + 0.5°C)
	J-type	Range	-210~1200°C (-346~2192°F)
		Accuracy	>-100°C, ±(0.1%Num + 0.5°C) <-100°C, ±(0.3%Num + 0.5°C)
	E-type	Range	-150~1000°C (-238~1832°F)
		Accuracy	>-100°C, ±(0.1%Num + 0.5°C) <-100°C, ±(0.3%Num + 0.5°C)
	T-type	Range	-250~400°C (-418~752°F)
		Accuracy	>-100°C, ±(0.1%Num + 0.5°C) <-100°C, ±(0.7%Num + 0.5°C)
	R-type, S-type	Range	0~1767°C (32~3212.6°F)
		Accuracy	±(0.1%Num + 0.6°C)
N-type	Range	-200~1300°C (-328~2372°F)	
	Accuracy	>-100°C, ±(0.1%Num + 0.5°C) <-100°C, ±(0.3%Num + 0.5°C)	
Resolution	0.01 (-100~100) 0.1 (Other)		
Temperature Unit	°C/°F		
Sampling Channel	1 Channel	2 Channels	3 Channels
T1-T2/T2-T1 Value Difference	—	√	—
Operating Conditions	Temperature: 0~50°C; Humidity: 0~80%RH		
Power Supply	4×1.5V AAA(UM-4) Battery		
Size	170×80×31mm		
Weight (Not Including Batteries)	182g	186g	191g

### Thermocouple Measurement Range Specifications (It is determined by the thermocouple selected)

Model (K-type)	Name	Range	Diagram	Size (φ×L)
TP-02	Thermocouple	-50~400°C		φ3×75mm
TP-03	Surface Thermocouple	-50~600°C		φ6×150mm
TP-04	Surface Thermocouple	-50~600°C		φ6×150mm
TP-202	Surface Thermocouple	-50~400°C		φ14mm

Notes: 1. TP-02 is the standard accessory.  
 2. The default type of thermocouple in the standard accessories is K-type.  
 If other types of thermocouple are needed, please specifying when placing order.