

# TMP74 4 Channel Thermocouple Datalogger plus IR Thermometer

Professional thermometer supports 4 Type K thermocouples and 1 IR probe simultaneously



## Key Features

### Large Backlit Display

With multi-channel readings and MAX/MIN/AVG indicators

### USB interface

With bi-directional PC communication and data download capability

### Units of Measurement

Measures in °F, °C, or Kelvin (K) with 0.1° resolution for high precision

### Data Logging

Logs up to 18,000 data points per channel

### Electronic Offset Compensation

For probe error correction

### Power Management

Auto power-off (sleep mode) for extended battery life

### Differential Measurements

(e.g., T1-T2, T1-IR) for thermal comparisons

### Optional Model

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

### Includes

4x Type K Thermocouples, IR Probe and a 9V battery



## Applications

- Industrial process monitoring
- Heating and cooling system diagnostics
- Scientific and academic research
- Environmental and thermal testing
- Quality control in manufacturing

## Users

- HVAC/R Technicians
- Industrial Maintenance Engineers
- Laboratory and R&D Staff
- Electrical and Electronics Technicians
- Food Safety Inspectors

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The TMP74 is a professional device designed for technicians, engineers and inspectors who need the versatility of 4 temperature values simultaneously. With data logging, multiple values can be tracked and evaluated over time.

## Specifications

	Range	Accuracy
Thermocouple Inputs (T1–T4)	-328°F to 2501°F (-200°C to 1372°C)	$\pm[0.15\%rdg + 1.0^{\circ}F/^{\circ}C]$ above -148 (-100°C) $\pm[0.5\%rdg + 2.0^{\circ}F/^{\circ}C]$ below -148 (-100°C)
IR Input	-22°F to 1022°F (-30°C to 550°C)	$\pm[2.0\%rdg + 2.0^{\circ}F/^{\circ}C]$ above -10°C
Differential (T1–T2, T3–T4)	Calculated	$\pm 5.0^{\circ}C$ below -10°C $\pm[0.5\%rdg + 1.0^{\circ}C]$
IR – Tx Differential	Calculated	$\pm[2.0\%rdg + 3.0^{\circ}C]$ above 14°F (-10°C) $\pm 6.0^{\circ}C$ below 14°F (-10°C)
Display Resolution	0.1°F/°C/K (<1000), 1°F/°C/K (>1000)	
Operating Temperature	32°F to 122°F (0°C to 50°C)	
Storage Temperature	14°F to 122°F (-10°C to 50°C)	
Data Logging Memory	Up to 18,000 records per channel	
Power Supply	9V battery	

## Ordering Information:

**TMP74** 4 Channel Thermocouple Datalogger plus IR Thermometer

**TMP74-NIST** TMP74 including Certificate of Traceability to N.I.S.T.

## What's in the Box?

- TMP74
- 4x type K thermocouples
- USB cable
- 9V battery
- Carrying case

