



**TCD-104/S400**

4-ch K-type Thermocouple



**TCD-108/S400**

8-ch K-type Thermocouple

## Features

- 4/8-channel K-type thermocouple ( $\pm 0.5^{\circ}\text{C}$  Accuracy)
- Thermocouple length: 50 cm
- Sampling Rate: 50 ms to 60000 seconds
- Max. recording for each channel: 450,000/300,000
- Powered by 4x AAA batteries (60 hours @ 50 ms sampling rate)
- $400^{\circ}\text{C}$  operating temperature with thermal insulation box
- Easy-to-use software interface
- Traceable temperature data



## Introduction

TCD-104/TCD-108 temperature measurement module can provide high-precision temperature measuring capability with standard K-type thermocouple. Besides, TCD-104/TCD-108 has built-in over-temperature protection, intelligent temperature data logging capability, automatic analysis result output (highest Tin temperature, tinning time, heating rate, etc.).



## Applications

SMD assembly manufacturing, PC board manufacturing, footwear manufacturing, food industry, pharmaceutical industry and any temperature measurement required industries.

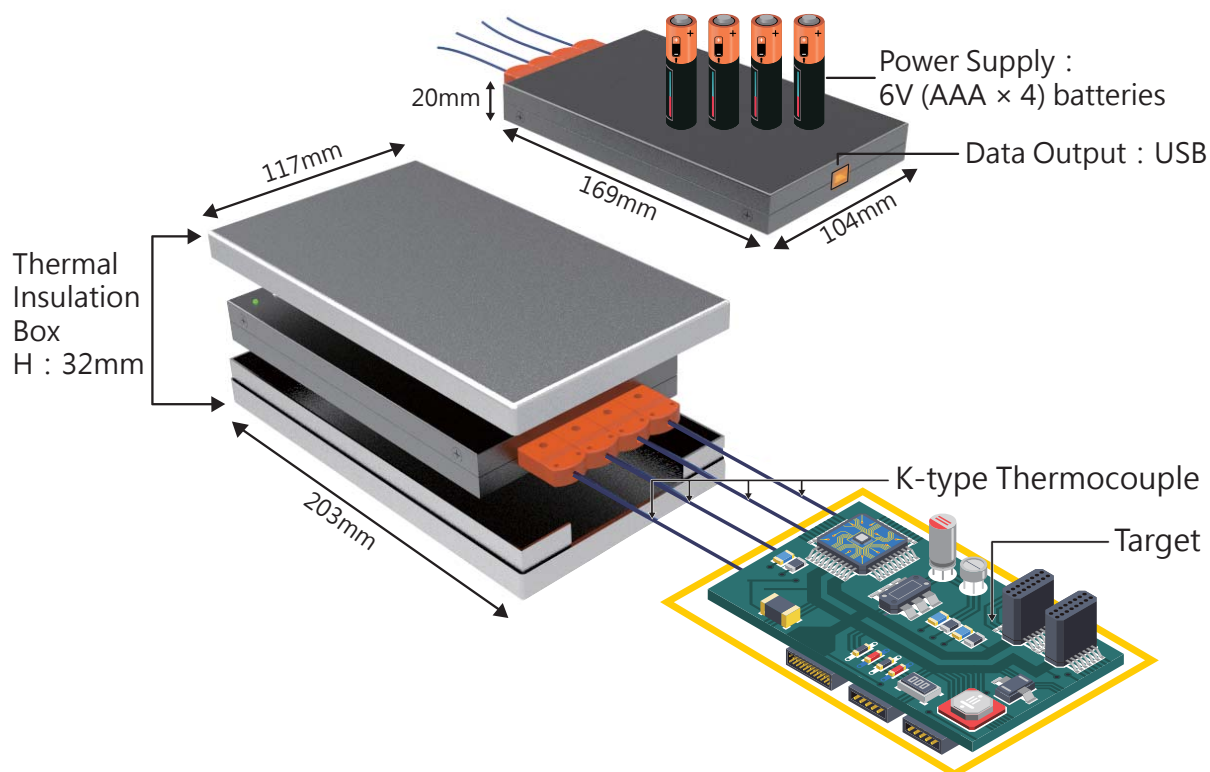


## System Specifications

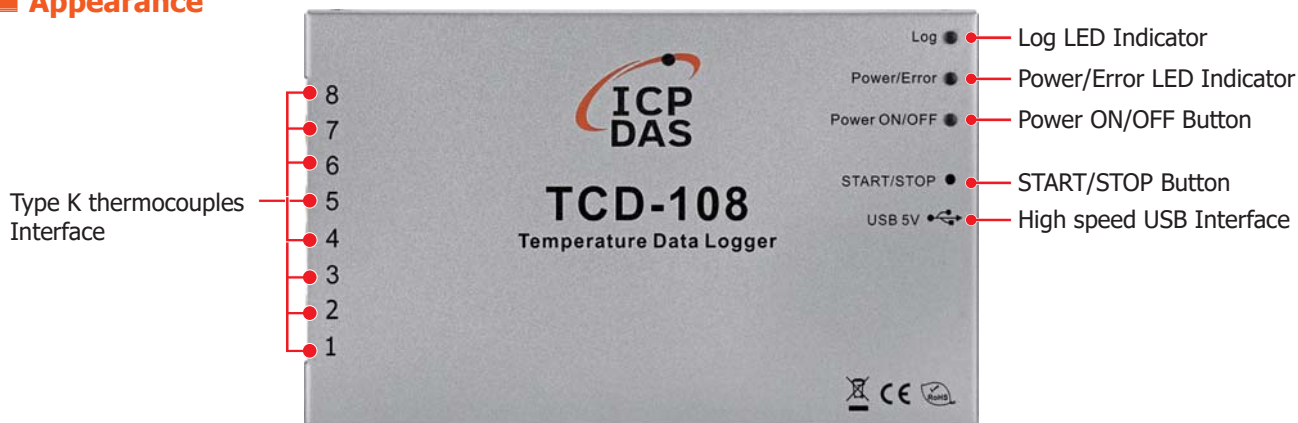
Model	TCD-104		TCD-108	
LED Indicators				
Status	Log : Yellow for data logger PWR : Green for normal operation Error : Red for error indicator			
Temperature Measurement				
Sensor Type	K-Type			
Channels	4		8	
Measuring Range	-270°C to 1372°C (-454°F to 2501°F)			
Resolution	0.1°C			
Accuracy	±0.5°C			
System				
Data Logger	450,000 records		300,000 records	
USB				
Specification	USB 2.0 Full-Speed			
Power				
Consumption	0.06 W Max.			
Battery Usage Life	Operating for more than 60 hours with heavy-duty AAA battery x 4			
Mechanical				
Dimensions (mm)	104 x 169 x 21 (W x L x H)			
Environmental				
Operating Temperature	-40 to +400°C			
Humidity	10 to 95% RH, Non-condensing			

## Appearance

TCD-104 and TCD-108 are temperature data loggers with 4/8-channel K-type thermocouple sensors. They are powered by 4x AAA batteries for working more than 60 hours. With an optional thermal insulation box, they can operate in 400°C environment. TCD-104 and TCD-108 are suitable for the industries that concern the temperature change in their manufacturing process, especially heating curve in ovens.



## Appearance



The TCD-108/S400 kit comprises of an TCD-108 data logger, iTLogger software, USB 2.0 cable, thermal barrier, carry case, a quick start guide and k-type temperature cable.



## Software: iTLogger Utility

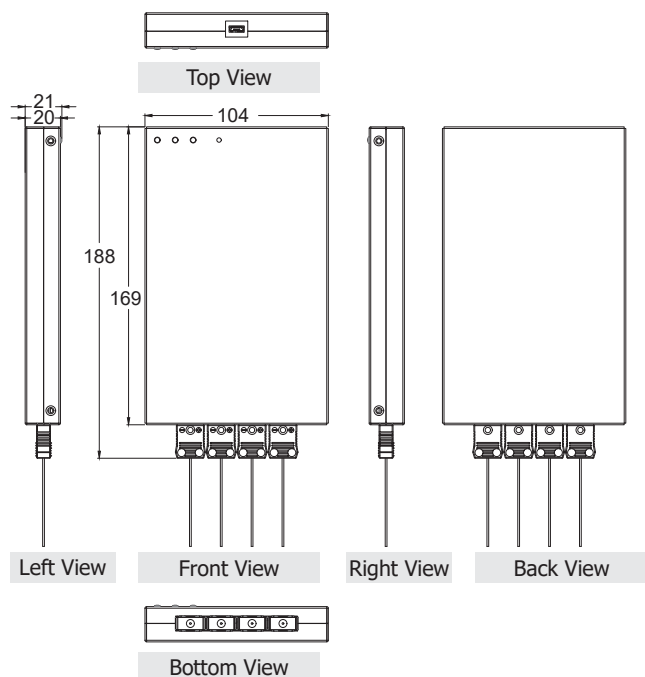
iTLogger Utility is used to configure and download the data from TCD-104 and TCD-108 via the USB. It can display the trend chart and calculate some static values, like max., min, mean



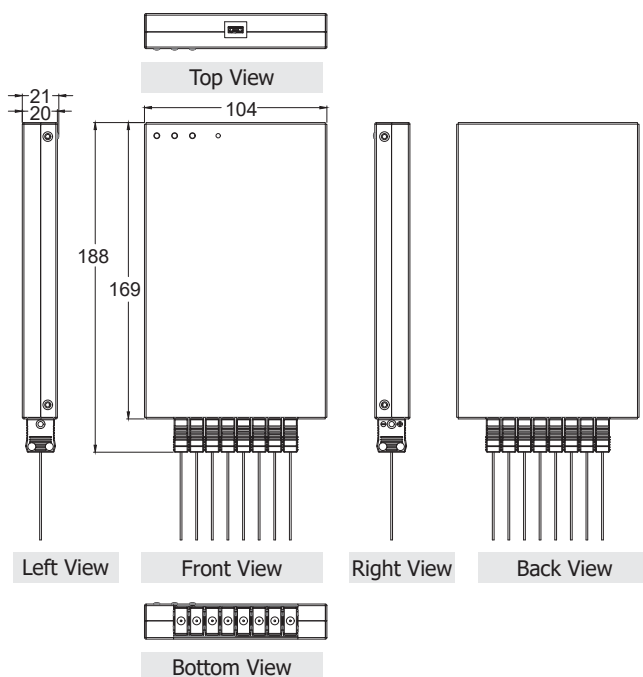


## ■ Dimensions (Units: mm)

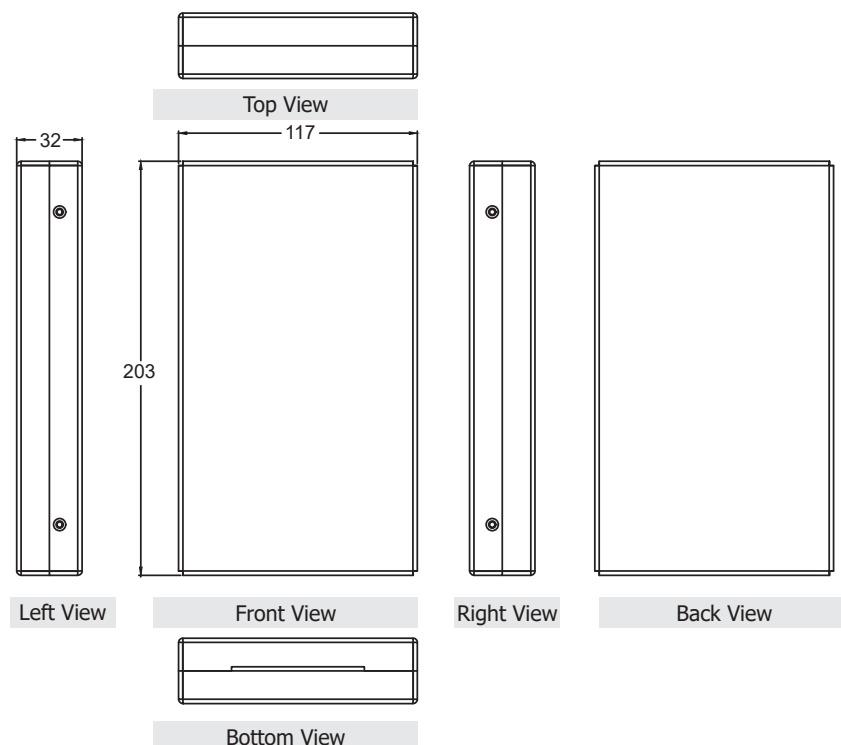
### TCD-104 Inner shell



### TCD-108 Inner shell



### TCD-TIB1-400 shell



## ■ Ordering Information

<b>TCD-104/S400 CR</b>	4-ch K type Thermocouple Data Logger Module for Portable Measurement up to 400°C. (RoHS) Includes thermal insulation box and software.
<b>TCD-108/S400 CR</b>	8-ch K type Thermocouple Data Logger Module for Portable Measurement up to 400°C. (RoHS) Includes thermal insulation box and software.