

# 8 Input Thermometer / Datalogger

## Features

- 8 input temperature measurement/logging ( $^{\circ}\text{C}/^{\circ}\text{F}$ )
- Graphic display of each input
- 11 types of thermocouple (K, J, E, T, R, S, N, L, U, B, C)
- Easy thermocouple mini connector
- Basic accuracy  $0.05\% \pm 1^{\circ}\text{C}$  (K type)
- Sampling rate: 1 sec. / 8 inputs
- Programmable Hi-Lo alarm for 8 inputs
- Display of max and min values of 8 inputs
- Standard 2G SD memory card (stores 3.8-year data)
- Optional 8G SDHC memory card
- SD card directly read by PC
- Easy data file management (Read and Delete functions)
- Built-in calendar clock
- Independent Input Setup (type of thermocouple, Hi-Lo alarm values, name of Engineering Unit)
- Isolated Input Protection of 350Vp-p between any two inputs
- Programmable Engineering Unit (E.U.) to integrate Analog Output (-50 to 50 mV) from instruments (e.g. Sound level meter, Humidity meter, Current adaptor)
- Screen hardcopy into files
- Paperless Recorder

## General Specifications

<b>Battery Type</b>	1.2V AA alkaline batteries x 8
<b>AD Adaptor</b>	110V or 220V input, DC 12V / 300mA output
<b>Dimension</b>	257(L) x 155(W) x 57(H) mm 10.1" (L) x 6.1" (W) x 2.2" (H)
<b>Weight</b>	1160g / 40.9oz (Batteries included)
<b>Operation Environment</b>	0°C ~ 50°C, 85% RH
<b>Storage Environment</b>	-20°C ~ 60°C, 75% RH
<b>Accessories</b>	User manual x 1, 1.2V AA alkaline batteries x 8 AC adaptor x 1, USB cable x 1 Software CD x 1, Software manual x 1 SD card (2GB) x 1, Carrying bag x 1 K-type thermocouples: 1Mx6pc; 3Mx1pc; 5Mx1pc.
<b>Option</b>	SDHC card (8GB)



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## Applications

### Temperature Distribution/Profile Analysis

- PCB Reflow, and Reflow Oven
- Temperature & Humidity Chamber
- Environmental Test Chamber
- Burn In Room (e.g. Motherboard)
- Thermal Shock Tester
- Aging Test Oven
- Metal Heating Machine
- Automotive Air Conditioning, Engine Compartment
- Air Conditioning, Refrigeration, Ventilation
- Bakery Oven (Food Industry)
- Welding
- Metal Thermal Treatment (e.g. Annealing)

### Temperature Control Analysis

- Environmental Test Chamber
- Temperature Controller
- Plastic Injection Molding Machines: Temperature Distribution, Process Temperature
- Long-term record and monitor of Humidity, Wind velocity and Temperature (e.g. Preservation by Low Temperature)
- Environmental Protection: Study of Noise, Air quality and Environment



## Electrical Specifications ( $23^{\circ}\text{C} \pm 3^{\circ}\text{C}$ )

(0.1°C, 0.1°F Resolution, Accuracy is of reading.)

Type	°C		°F	
	Range	Accuracy	Range	Accuracy
K	-200 ~ -100	$\pm 2.0^{\circ}\text{C}$	-328 ~ -148	$\pm 3.6^{\circ}\text{F}$
	-100 ~ 1370	$\pm 0.05\% \pm 1.0^{\circ}\text{C}$	-148 ~ 2498	$\pm 0.05\% \pm 1.8^{\circ}\text{F}$
J	-200 ~ -100	$\pm 2.5^{\circ}\text{C}$	-328 ~ -148	$\pm 4.5^{\circ}\text{F}$
	-100 ~ 100	$\pm 1.5^{\circ}\text{C}$	-148 ~ 212	$\pm 2.7^{\circ}\text{F}$
	100 ~ 1000	$\pm 0.05\% \pm 1.0^{\circ}\text{C}$	212 ~ 1832	$\pm 0.05\% \pm 1.8^{\circ}\text{F}$
E	-150 ~ -100	$\pm 2.0^{\circ}\text{C}$	-238 ~ -148	$\pm 3.6^{\circ}\text{F}$
	-100 ~ 760	$\pm 0.05\% \pm 1.0^{\circ}\text{C}$	-148 ~ 1400	$\pm 0.05\% \pm 1.8^{\circ}\text{F}$
T	-200 ~ -100	$\pm 1.5^{\circ}\text{C}$	-328 ~ -148	$\pm 2.7^{\circ}\text{F}$
	-100 ~ 400	$\pm 0.1\% \pm 0.5^{\circ}\text{C}$	-148 ~ 732	$\pm 0.1\% \pm 0.9^{\circ}\text{F}$
R/S	0 ~ 100	$\pm 5.0^{\circ}\text{C}$	32 ~ 212	$\pm 9.0^{\circ}\text{F}$
	100 ~ 300	$\pm 3.0^{\circ}\text{C}$	212 ~ 572	$\pm 5.4^{\circ}\text{F}$
	300 ~ 1600	$\pm 0.05\% \pm 2.0^{\circ}\text{C}$	572 ~ 2912	$\pm 0.05\% \pm 3.6^{\circ}\text{F}$
N	0 ~ 1300	$\pm 0.1\% \pm 1.0^{\circ}\text{C}$	32 ~ 2372	$\pm 0.1\% \pm 1.8^{\circ}\text{F}$
L	-200 ~ 900	$\pm 0.1\% \pm 1.0^{\circ}\text{C}$	-328 ~ 1652	$\pm 0.1\% \pm 1.8^{\circ}\text{F}$
U	0 ~ 600	$\pm 0.1\% \pm 1.0^{\circ}\text{C}$	32 ~ 1112	$\pm 0.1\% \pm 1.8^{\circ}\text{F}$
B	600 ~ 1820	$\pm 0.05\% \pm 2.0^{\circ}\text{C}$	1112 ~ 3308	$\pm 0.05\% \pm 3.6^{\circ}\text{F}$
C	0 ~ 2310	$\pm 0.1\% \pm 1.5^{\circ}\text{C}$	32 ~ 4190	$\pm 0.1\% \pm 2.7^{\circ}\text{F}$
mV	-50 ~ 50	$\pm 0.05\% \pm 20 \mu\text{V}$	-50 ~ 50	$\pm 0.05\% \pm 20 \mu\text{V}$



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