

# TES-1384

## 4 Input Thermometer / Datalogger



### FEATURES

- Isolated Input Protection of 350Vp-p between any two inputs.
- Highly accurate thermometer with thermocouple K, J, E, T, R, S, N, L, U, B, C types.
- 4 input function T1/T2/T3/T4 temperature display.
- Programmable Hi – Lo alarm for 4 inputs.
- Display of MAX, MIN, MAX–MIN and AVG values of 4 inputs.
- Independent Input Setup (type of thermocouple, Hi – Lo alarm values).
- Memory and Read function (99 sets)
- 512KB auto datalogging capacity(4 input:36000 sets /1 input: 100000 sets)
- USB interface.



### SPECIFICATION

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

| Type | °C           |               | °F           |               |
|------|--------------|---------------|--------------|---------------|
|      | Range        | Accuracy      | Range        | Accuracy      |
| K    | -200 ~ -150  | ±3.0°C        | -328 ~ -238  | ±5.4°F        |
|      | -150 ~ -100  | ±2.0°C        | -238 ~ -148  | ±3.6°F        |
|      | -100 ~ 999.9 | ±0.05% ±1.0°C | -148 ~ 999.9 | ±0.05% ±1.8°F |
|      | 1000 ~ 1370  | ±0.2% ±1.0°C  | 1000 ~ 2498  | ±0.2% ±1.8°F  |
| J    | -200 ~ -100  | ±2.5°C        | -328 ~ -148  | ±4.5°F        |
|      | -100 ~ 100   | ±1.5°C        | -148 ~ 212   | ±2.7°F        |
|      | 100 ~ 999.9  | ±0.05% ±1.0°C | 212 ~ 999.9  | ±0.05% ±1.8°F |
|      |              |               | 1000 ~ 1832  | ±0.2% ±1°F    |
| E    | -150 ~ -100  | ±3.0°C        | -238 ~ -148  | ±5.4°F        |
|      | -100 ~ 760   | ±0.05% ±1.0°C | -148 ~ 999.9 | ±0.05% ±1.8°F |
|      |              | 1000 ~ 1400   | ±0.2% ±1°F   |               |
| T    | -200 ~ -150  | ±3.0°C        | -328 ~ -238  | ±5.4°F        |
|      | -150 ~ -100  | ±0.15% ±2.5°C | -238 ~ -148  | ±0.15% ±4.5°F |
|      | -100 ~ 400   | ±0.1% ±1.0°C  | -148 ~ 752   | ±0.1% ±1.8°F  |

|     |  |  |   |  |
|-----|--|--|---|--|
| R/S | 0 ~ 100<br>100 ~ 300<br>300 ~ 999.9<br>1000 ~ 1600 | $\pm 5.0^{\circ}\text{C}$<br>$\pm 3.0^{\circ}\text{C}$<br>$\pm 0.05\% \pm 2.0^{\circ}\text{C}$<br>$\pm 0.25\% \pm 2.0^{\circ}\text{C}$ | 32 ~ 212<br>212 ~ 572<br>572 ~ 999.9<br>1000 ~ 2912 | $\pm 9.0^{\circ}\text{F}$<br>$\pm 5.4^{\circ}\text{F}$<br>$\pm 0.05\% \pm 3.6^{\circ}\text{F}$<br>$\pm 0.25\% \pm 3.6^{\circ}\text{F}$ |
| N   | 0 ~ 999.9<br>1000 ~ 1300                           | $\pm 0.1\% \pm 1.0^{\circ}\text{C}$<br>$\pm 0.2\% \pm 1.0^{\circ}\text{C}$   | 32 ~ 999.9<br>1000 ~ 2372                           | $\pm 0.1\% \pm 1.8^{\circ}\text{F}$<br>$\pm 0.2\% \pm 1.8^{\circ}\text{F}$   |
| L   | -200 ~ 900   | $\pm 0.1\% \pm 1.0^{\circ}\text{C}$  | -328 ~ 999.9<br>1000 ~ 1652                         | $\pm 0.1\% \pm 1.8^{\circ}\text{F}$<br>$\pm 0.2\% \pm 1^{\circ}\text{F}$   |
| U   | 0 ~ 600  | $\pm 0.1\% \pm 1.0^{\circ}\text{C}$  | 32 ~ 999.9<br>1000 ~ 1112                           | $\pm 0.1\% \pm 1.8^{\circ}\text{F}$<br>$\pm 0.2\% \pm 1^{\circ}\text{F}$   |
| B   | 600 ~ 999.9<br>1000 ~ 1760                         | $\pm 0.05\% \pm 2.0^{\circ}\text{C}$<br>$\pm 0.1\% \pm 2.0^{\circ}\text{C}$  | 1112 ~ 1831<br>1832 ~ 3200                          | $\pm 0.05\% \pm 3.6^{\circ}\text{F}$<br>$\pm 0.1\% \pm 3.6^{\circ}\text{F}$  |
| C   | 0 ~ 999.9<br>1000 ~ 1760                           | $\pm 0.1\% \pm 1.5^{\circ}\text{C}$<br>$\pm 0.2\% \pm 1.5^{\circ}\text{C}$   | 32 ~ 999.9<br>1000 ~ 3200                           | $\pm 0.1\% \pm 2.7^{\circ}\text{F}$<br>$\pm 0.2\% \pm 2.7^{\circ}\text{F}$   |

|   |   |
|---|---|
| <b>Temperature Coefficient</b>                          | 0.01% of reading + 0.1°C per °C (0.2°F per °F) outside the specified +18°C to 28°C (+64°F to +82°F) range                       |
| <b>Isolated Input Protection between any two inputs</b> | 350Vp-p   |
| <b>Sampling Rate</b>                                    | 2sec/time   |
| <b>Operating / Storage Conditions</b>                   | 0°C ~ 50°C < 80%RH ; -10°C ~ 60°C < 70%RH   |
| <b>Power Source</b>                                     | 6 pcs size AA Battery   |
| <b>Battery Life</b>                                     | Approx. 55 hours  |
| <b>Size</b>   | 187(L) × 73(W) × 53(H)  |
| <b>Weight</b>   | Approx. 450g with batteries   |
| <b>Accessories</b>                                      | Instruction manual x 1<br>Battery x 6<br>USB cable x 1<br>Software CD x 1<br>Carrying case x 1<br>K-type thermocouples (1M x 1) |
| <b>Optional accessories</b>                             | K-type thermocouples (3M / 5M )   |

