

T442

T442 is 4 channel digital thermometer with recording function to measure temperature by applying the principle of thermocouple temperature measurement. It is integrated with high-precision circuit principle and high-precision reference source inside the instrument, coupled with accurate factory calibration, the resolution of the instrument reaches 0.01°C, and the factory precision reaches $\pm(0.3\%|t|+0.40)^{\circ}\text{C}$.

T442 can display temperature change curve & supports the most commonly used K, T and J TC probes. This compatibility with multiple types of probes expands the application fields of the instrument.

This instrument also opens the point calibration function for users, and accurate multi-point calibration can greatly improve the measurement accuracy of the whole machine (the system composed of the host and the probe). The files generated by the recording can be viewed directly on this machine. Also uses data space separation technology, so it can export files in a variety of different formats.



FEATURES

- 32-bit high-speed low-power MCU
- Four channels
- K, T and J type thermocouple supported
- Resolution up to 0.01°C
- Factory accuracy $\pm(0.3\%|t|+0.40)^{\circ}\text{C}$
- Accuracy up to $\pm 0.1^{\circ}\text{C}$ after point calibration
- Measuring range $-200^{\circ}\text{C}\sim+1370^{\circ}\text{C}$

TECHNICAL SPECIFICATION

Temperature	Dot matrix LCD screen with backlight
Channel	4
Probe Type	K, T, J type Thermocouple
Unit	$^{\circ}\text{C}$, $^{\circ}\text{F}$
Measuring Range	Type K: $-200\sim 1370^{\circ}\text{C}$ Type T: $-200\sim 400^{\circ}\text{C}$ Type J: $-200\sim 1200^{\circ}\text{C}$
Accuracy	$\pm(0.3\% t +0.40)^{\circ}\text{C}$
Resolution	0.01°C ($-200.00^{\circ}\text{C}\sim+999.99^{\circ}\text{C}$) 0.1°C ($+1000.0^{\circ}\text{C}\sim+1370.0^{\circ}\text{C}$)
Storage Capacity	20000 groups of readings
Storage Capacity	1~86399 seconds adjustable
File Format	txt, csv, xls, dlg
Sample Rate	2 times/second
Calibration	Multi-point calibration
Operating Temperature	$-10\sim 50^{\circ}\text{C}$ (non-condensing)
Battery	3pcs of 1.5V AAA alkaline batteries
Protection Class	IP52
Warranty	12 months
Size	176 x 73 x 40mm
Weight	200g