

Tekneka T500 is a single-channel thermometer data logger that measures temperature using PT100 and PT1000 probes in accordance with the platinum resistance temperature measuring principle. With a real-time temperature change curve, it measures temperatures between -200 and 800°C. It has a multi-point calibration feature to improve measurement accuracy that has reached $\pm 0.015^{\circ}\text{C}$ and gives an audible beep alarm for high/low limits. Without the need for any additional software, it can export data in the TXT, CSV, XLS, or DLG formats to a PC and save up to 20,000 readings of data with customized logging intervals. It has a 2.3-inch dot matrix LCD screen with a backlight, a data-holding feature, the ability to easily switch units from $^{\circ}\text{C}$ to $^{\circ}\text{F}$, and the ability to see MIN/MAX/AVG values.

Features

- 2.3-inch dot matrix LCD screen with backlight
- Storage capacity of 20,000 recorded readings
- Works on platinum resistance temperature measuring principle
- The real-time temperature change curve
- Ability to view MIN/MAX/AVG numbers when recording
- If the High/Low limits are exceeded, an audible buzzer alarm is available
- Multipoint calibration option & accuracy of $\pm 0.015^{\circ}\text{C}$ after calibration
- No software is needed to set sample intervals and export data
- It has the capacity to HOLD current measurement data
- Easy to change temperature units & probe type
- Battery level indication to avoid sudden power off
- Export recorded data to TXT, CSV, XLS, or DLG format
- It has 120 hours of battery life and a 32-bit high-speed low-power MCU



Applications

This single-channel thermometer data logger has a wide range of applications in the Chemical Production Industry, Process Plant Facilities, Agricultural Greenhouses, Breeding Facilities, Pharmaceuticals, Labs, Hospitals, Appliance Testing, and Production Facilities.

Packing Includes

- T500 Thermometer
- 3 x AAA 1.5V Batteries
- Micro-USB Cable
- PT1000 Temperature Probe - 1 Meter
- Protection Case with User Manual



Ordering Info.

- T500.....Single Channel Thermometer Data Logger
- PT1000.....Temperature Probe (-40 to 200°C)

Description	Ranges
Temperature Sensor Channel	Single Channel (PT1000)
Measuring Range	-200 to 800°C (-328 to 1472°F)
Accuracy	$\pm(0.05\% \text{ rdg} + 0.05)^{\circ}\text{C}$
Display Resolution	0.001°C (-99.99 to 99.99°C); 0.01 (others)
Accuracy After Calibration	$\pm 0.015^{\circ}\text{C}$
Calibration Method	Multi-point calibration
LCD Refresh Interval	1 time/second
Memory Range	20,000 readings
Logging Interval	1 to 86399 seconds (1 second to 24 hours)
Export Report Format	TXT/CSV/XLS/DLG
Buzzer Alarm	Upper & Lower limit setup
Interface	Micro-USB
Battery	3 x 1.5V AAA (about 120 hours)
Operating Temperature	-10 to 50°C (14 to 122°F)
Storage Temperature	-20 to 60°C (-4 to 140°F) without batteries
Protection Class	IP52
Dimension	174 x 73 x 40mm/Case: 260 x 215 x 73mm
Weight	Net: 210g (No batteries & probe)/Gross: 1.2kg