

The Tekneka TM316 Thermocouple Data Logger is a high-performance temperature monitoring device designed for industrial and research applications. With support for 16 channels and compatibility with thermocouple types K, J, E, T, R, S, N, B, and C, this logger provides accurate temperature readings across an extensive range of -270 to 2320°C. Its 1-second fastest sampling frequency ensures real-time data capture, making it ideal for critical processes requiring precise temperature control. Whether for laboratory research or industrial quality assurance, the Tekneka TM316 delivers reliability and efficiency.

Features

- Multi-Thermocouple Compatibility: Works with various thermocouple types, including K, J, E, T, R, S, N, B, and C
- Wide Temperature Range: Monitors temperatures from -270 to 2320°C, suitable for diverse environments
- 16-Channel Input: Logs data simultaneously from 16 sources for comprehensive analysis
- Real-Time Data Logging: 1-second sampling rate enables fast and accurate temperature tracking
- Portable Design: Compact and durable, perfect for on-site and laboratory use
- Interface: Supports Ethernet, USB & external SD cards
- Data Logging: Internally stored data can be analyzed using software



Applications

The Tekneka TM316 Thermocouple Data Logger is widely utilized in pharmaceuticals, laboratories, production facilities, material testing, food safety & storage, power plants, and HVAC systems. It is also an essential tool for field technicians, quality control teams, and R&D professionals requiring reliable, continuous temperature monitoring solutions.

Description	Ranges
Temperature Measuring Range	-270 ~ 2320°C
Temperature Accuracy	±1.5°C (-20 ~ -10°C), ±0.5°C(-10 ~ 80°C)
Display	5-inch LCD touch screen
Display Resolution	0.1°C/0.1%RH
Resolution	800 x 480 FHD
Alarm	Alarm options available (4 settings)
Internal Memory Range	32GB
Export Report Format	.csv
Data Logging Interval	≥ 1sec to 24hrs
Interface	USB, USB-C, Ethernet, SD Card
LCD Refresh Interval	Default: 1sec
Power Supply	5V, Battery: 5000mAh Lithium battery (in-built)
Operating Temperature	Device: -10 ~ 50°C
Dimension	Device: 18.9 x 10.4 x 3.9cm/Box: 22 x 14 x 9.5cm
Weight	Device: 500g/Package: 1.6kg

Package Includes

- USB 2.0
- Type-C Cable
- Safety Lock Key

Thermocouple input (excluding cold junction error) accuracy does not include cold junction compensation error. Cold junction compensation error: ±1.5°C

K	-270 ~ 1370°C	S	-50 ~ 1760°C
J	-200 ~ 760°C	N	-270 ~ 1370°C
E	-270 ~ 980°C	B	50 ~ 1820°C
T	-270 ~ 400°C	C	0 ~ 2320°C
R	-50 ~ 1760°C		

Ordering Info

TM316..... Thermocouple Data Logger (16 Channel)