

PRODUCT DATASHEET

TM500 12-Channel Thermocouple Datalogger



Extech's 12-Channel datalogging thermometer allows for a wide-range of applications with 6 Thermocouple types (J, K, E, T, R,S). It displays CH1 to CH8 or CH9 to CH12 on screen and data can be recorded from all 12 channels simultaneously onto an SD card in Excel[®] format for further analysis.

Applications (Dependent on Thermocouple type and range):

- Heat distribution in thermal chambers
- Refrigeration
- Quality Control temperature monitoring
- Core temperature in ovens
- HVAC and Refrigeration
- Automotive design
- Cooling systems



Features

- 12-Channel temperature datalogging with 6 Thermocouple types (J, K, E, T, R,S)
- Simultaneously displays CH1 to CH8 or CH9 to CH12
- Offset adjustment used for zero function or to make relative measurements
- Stores 99 readings manually and 20M readings via 2GB SD card
- Records readings with date and time stamp
- User programmable sampling rate: 1 to 3600 seconds
- Min/Max and Data Hold functions
- Auto power off with disable function
- Complete with 8 AA batteries, 12 general purpose Type K bead wire temperature probes, SD card, and hard carrying case

Specifications

Type J	-148 to 2102°F (-100 to 1150°C)
Type K	-148 to 2372°F (-100 to 1300°C)
Type T	-148 to 752°F (-100 to 400°C)
Type E	-148 to 1652°F (-100 to 900°C)
Type R	32 to 3092°F (0 to 1700°C)
Type S	32 to 2732°F (0 to 1500°C)
Resolution	0.1°/1°
Basic Accuracy	±0.4% rdg (+1.8°F/+1°C) Types J, K, E, T; ±0.5% rdg (+5°F/+3°C) Types R, S
Datalogging	20M data records using a 2GB SD card
Dimensions	8.9 x 4.9 x 2.5" (225 x 125 x 64mm)
Weight	2.1lbs (944g)

Ordering

- TM500..... 12-Channel Thermocouple Datalogger
- TP870 Replacement Type K bead wire probe (-40 to 482°F/-40 to 250°C)
- TP873 Type K bead wire probe (-22 to 572°F/-30 to 300°C)
- TP875 Type K bead wire probe (-58 to 1000°F/-50 to 538°C)

