EXTECH INSTRUMENTS

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
- Quality Control temperature monitoring
- HVAC and Refrigeration
- Cooling systems
- Refrigeration
- Core temperature in ovens
- Automotive design

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
- Memory stores 99 readings manually
- Datalogging feature records readings with date and time stamp on an SD card (included) in Excel® format
- 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	Datalog readings on SD card (included)
Dimensions/ Weight	8.9 x 4.9 x 2.5" (225 x 125 x 64mm)/ 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)
TP873-5M..... Type K bead wire probe (-22 to 572°F/-30 to 300°C) with 5m cable

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