



# 12-Channel Temperature Recorder with Excel-Formatted Data Logging SD Card

**Accurately Measures 12 Channels of Temperature  
from -148° to 3092°F (-100° to 1700°C)**



No. DT4208SD

## Applications:

- Food and chemical processing
- PC board burn-in
- Paper production
- HVAC/R installations
- Power generation



Petrochemical Production



PC Board Burn-In

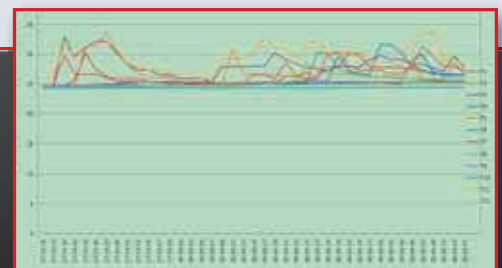
This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



**Patented Technology**

Date	Time	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12
1/20/02	11:00:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:01:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:02:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:03:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:04:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:05:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:06:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:07:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:08:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:09:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:10:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:11:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:12:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:13:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:14:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:15:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:16:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:17:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:18:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:19:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/02	11:20:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5

Typical Excel Data



Typical Excel Plotted Data

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# 12-Channel Temperature Recorder with Excel-Formatted Data Logging SD Card

## Features:

- Twelve independent temperature measurement channels
- Displays up to eight channels at a time; one push of a button switches to Channels 9 through 12
- Works with and automatically temperature-compensates for six popular thermocouple types: K, J, T, E, S and R
- Combining thermocouple types extends overall measurement range to -148° to 3092°F (-100° to 1700°C)
- Can automatically log 12 channels of data every day during same period
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Displays maximum and minimum readings and holds any reading
- Automatically logs measurements at sampling time settable from one second to one hour
- Also supports manual data logging and changing of SD card storage location
- Auto power off function

## Included Accessories:

- Hard carrying case
- Two "K Type" beaded thermocouple probes
- 2 GB SD memory card
- User's manual

## Optional Accessories:

- "K" Type thermocouples  
General P/N TPK500 (-50° to 500°F)  
General P/N TPK05 (-40° to 562°F)  
General P/N TPK03 (-40° to 950°F)
- 9VDC adapter for 110V power supply (General P/N AC1)
- SDRD1 - SD Card Reader



No. DT4208SD

## Specifications:

**Embedded Microcontroller:** Custom one-chip LSI device

**Display Type:** LCD with green backlight

**Display Size:** 2.05 x 1.5 in. (52 x 38mm)

**Parameter Measured:** Temperature (in °F or °C)

### Measurement Range:

- Using included "K" Type thermocouples: -148° to 2372°F (-100° to 1300°C)
- For other thermocouples: depends on type

### Measurement Accuracy:

- For included "K" Type thermocouples: ± (0.4 % of reading + 2.0°F max)

### Measurement Resolution

- For included "K" Type thermocouples: 0.1° (F or C) below 1000°F, 1° (F or C) above 1000°F

**Data Logging Sampling Time:** 1 second to 1 hour

**Settable Parameters:** Date, time, decimal point or comma decimal division, auto power off, beep sound, loop recording enable or disable, temperature unit, sampling time

**Storable/Recallable Readings:** Maximum, minimum

**SD Card Capacity:** 1 GB to 16 GB

**Operating Temperature:** 32° to 122°F (0° to 50°C)

**Operating Relative Humidity:** 0 to 85%

### Power Consumption:

- 7.5 mADC (normal operation, with backlight off and SD card not saving data)
- 25 mADC with backlight on and card saving data
- 36 mADC with backlight on and card saving data

### Dimensions:

8.86 x 4.92 x 2.52 in. (225 x 125 x 64mm)

**Weight:** 2.1 lb. (944g)

### Power Source:

Eight "AA" batteries or optional 9-VDC AC adapter

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