

**GENERAL<sup>®</sup>**

# 4-Channel Thermometer

## with Excel-Formatted Data Logging SD Card

**Accurately Measures 4 Channels of Temperature  
from -148° to 3092°F (-100° to 1700°C)**



No. DT4947SD

### Applications:

- Food and chemical processing
- HVAC/R installations
- Power generation
- Paper production



Food Processing



Paper Production

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



## Patented Technology

Typical Excel Data



Typical Excel Plotted Data

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# 4-Channel Thermometer with Excel-Formatted Data Logging SD Card

## Features:

- Four independent temperature measurement channels
- Also measures T1-T2 difference between two channels
- 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)
- 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:

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

## Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- Pt 100 ohm RTD (General P/N RTDTP-100)
- Additional "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)
- SDRD1 - SD Card Reader



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## 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:**

- For Pt 100 ohm RTD: -327° to 1562°F
- For thermocouples: depends on type

**Measurement Accuracy:**

- For Pt 100 ohm probes: ± (0.4% of reading + 1.8°F) from -327° to 999.9°F, ± (0.4 % of reading + 2.0°F) from 1000° to 1562°F
- For thermocouples: ± (0.4% of reading + 2.0°F max)

**Measurement Resolution:**

- For Pt 100 ohm probes: 0.1° (F or C) from -327° to 999.9°F, 1°F from 1000° to 1562°F
- For thermocouples: 0.1° (F or C) below 1000°F and 1° (F or C) above 1000°F for Types K, J, T and E; 1° (C or F) for Types R and S

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

**Settable Parameters:** Date, time, decimal point or comma decimal division, auto power off, beep sound, 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:**

- 8.5 mADC (normal operation, with backlight off and SD card not saving data)
- 30 mADC with backlight on and card saving data
- 44 mADC with backlight on and card saving data

**Dimensions of Thermometer:**

6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

**Weight of Thermometer:** 1.13 lb. (515g)

**Power Source:**

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



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