

## THERMOCOUPLE THERMOMETER/ DATA LOGGER

## TECHNICAL DATA

### FEATURES

- Measures and displays 4 separate temperatures simultaneously
- Calculates and displays temperature differentials (T1-T2)
- Accepts Type K, J, R, S, E, T thermocouples and Pt 100Ω RTD
- Data hold and Max/Min record
- Measures in °C and °F
- Real time SD memory card datalogger with a built-in clock and calendar
- Sampling time set from 1 second to 3600 seconds
- No extra software needed, just plug the SD card into the computer and it downloads directly to EXCEL
- Easy to read LCD with backlight
- Auto power off or manual power off
- USB and RS232 computer interface
- Model **ST-947DELUXE** Kit, includes: **ST-947** Thermocouple Thermometer, **LS-109** Surface Probe, **LS-103** Air/Gas Probe, **LS-107** General-purpose Probe, **LS-134A** Needle Tip Probe all in a hard carrying case

### SPECIFICATIONS

Sensor Type	Resolution	Range	Accuracy
Type K	0.1°C	-100.0 to 1300.0°C	± (0.4% + 0.5°C)
	0.1°F	-148.0 to 2372.0°F	± (0.4% + 1°F)
Type J	0.1°C	-100.0 to 1200.0°C	± (0.4% + 0.5°C)
	0.1°F	-148.0 to 2192.0°F	± (0.4% + 1°F)
Type T	0.1°C	-100.0 to 400.0°C	± (0.4% + 0.5°C)
	0.1°F	-148.0 to 752.0°F	± (0.4% + 1°F)
Type E	0.1°C	-100.0 to 900.0°C	± (0.4% + 0.5°C)
	0.1°F	-148.0 to 999.9°F	± (0.4% + 1°F)
Type R	1°C	0 to 1700°C	± (0.5% + 1°C)
	1°F	32 to 3092°F	± (0.5% + 2°F)
Type S	1°C	0 to 1500°C	± (0.5% + 1°C)
	1°F	32 to 2732°F	± (0.5% + 2°F)

**RTD Temp. Range:** -199.99 to 850.0°C (-327.9 to 1562.0°F)

**Accuracy:** ±(0.4% + 1°C), ±(0.4% + 1.8°F)

**Sampling Time:** 1, 2, 5, 10, 30, 60, 120, 300, 600, 1800, 3600 seconds

**Memory Card:** SD memory card, 1 GB to 16 GB

**Data Output:** USB/RS232 PC computer interface

**Power Supply:** UM3/AA (1.5 V) x 6 batteries

**Dimensions:** 177 x 68 x 45mm (7.0 x 2.7 x 1.9")

**Weight:** 515g (1.13 lb)



### ORDERING INFORMATION

- SD-947** .....4-CH Thermocouple Thermometer/  
.....Data Logger  
**SD-947-NIST** ..... T/C Thermometer & NIST  
**SD-947DELUXE**..... Thermometer Kit  
**SD-2GB** .....2GB SD Memory Card  
**TP-01** ..... Type K Thermocouple Wire Probe  
**USB-01** ..... USB Cable  
**SW-U801-WIN**..... Data Acquisition Software  
**BS-6**..... Tripod  
**CA-05A** .....Soft Carrying Case  
**AP-9VA-110V** ..... AC Adapter