



# TCTEMP1000 SPECIFICATIONS\*

**Internal Channel**  
**Temperature Range:** -40 to +80°C  
**Temperature Resolution:** 0.1°C  
**Calibrated Accuracy:** ±0.5°C (0 to +50°C)

**Remote Channel**  
**Thermocouple Types:** J, K, T, E, R, S, B, N  
**Thermocouple connection:** Female subminiature (SMP)

**Cold Junction Compensation:** Automatic, based on internal channel

**ThermocoupleType:	Range (°C)	Resolution	Accuracy
J	-210 to +760	0.1°C	±0.5°C
K	-270 to +1370	0.1°C	±0.5°C
T	-270 to +400	0.1°C	±0.5°C
E	-270 to +980	0.1°C	±0.5°C
R	-50 to +1760	0.5°C	±2.0°C
S	-50 to +1760	0.5°C	±2.0°C
B	+50 to +1820	0.5°C	±2.0°C
N	-270 to +1300	0.1°C	±0.5°C

\*\*Thermocouple accuracy is specified with a 24 AWG, 3 meter thermocouple

Note: Rapidly changing temperatures or temperature gradients across the device may adversely affect the cold junction compensation.

**Start Time:** Software programmable start time and date, up to six months in advance  
**Real Time Recording:** May be used with PC to monitor and record data in real time

**Memory:** 16,383 readings per channel; software configurable memory wrap

**Reading Interval:** 1 reading every 2 seconds to 1 every 12 hours

**Calibration:** Digital calibration through software

**Calibration Date:** Automatically recorded within device

**Power:** 3.6V lithium battery included

**User Replaceable Battery:** 1 year typical (1 minute reading rate at 25°C)

**Data Format:** Date and time stamped °C, °F, K, °R

**Time Accuracy:** ±1 minute/month (at 20°C, RS232 port not in use)

**Computer Interface:** PC serial or USB (interface cable required); 2,400 baud

**Software:** Windows 95/98/ME/NT/2000/XP based software

**Operating Environment:** -40 to +80°C, 0 to 100%RH; Submersible to 150 feet

**Dimensions:** 7.4" x 1.2" dia. (188mm x 31mm dia.)

**Weight:** 13 oz (380 g)

**Approvals:** CE

BATTERY WARNING: RISK OF FIRE OR EXPLOSION. DO NOT RECHARGE, FORCE OPEN, HEAT OR DISPOSE OF IN FIRE.

## SOFTWARE FEATURES

**Multiple Graphs:** Simultaneously analyze data from several units or deployments; easily switch to a single data series

**Graphical Cursor:** One click displays readings by time, value, parameter or sample number

**Data Table:** Instantly access tabular view for detailed dates, times, values, and annotations

**Scaling Options:** Autoscale function fits data to the screen, or allows user to manually enter their own values

**Formatting Options:** Change colors, line styles, plotting options, show or hide channels quickly

**Statistics:** Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button

**Export Data:** Export data in a variety of common formats, or switch to Excel® with a single click

**Calibration:** Automatically calculate and store calibration parameters

**Logger Configuration:** Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID

**Communications:** Automatically sets up communications port, or lets user select configuration

\*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY.

## ORDERING INFORMATION

<u>Model</u>	<u>Description</u>	<u>Price (U.S.)</u>
TCTEMP1000	Rugged, Thermocouple-Based Recorder	\$299.00
IFC110	Software, manual and RS232 interface cable	\$99.00
IFC200	Software, manual and USB interface cable	\$119.00
NIST	N.I.S.T. Calibration Certificate	Call for Pricing
TL-2150	Replacement battery for TCTemp1000	\$10.00



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