

FEATURES

- N.I.S.T. traceable
- Real-time operation
- Low cost
- Programmable start time
- Reusable
- Miniature size
- ✤ User-friendly
- CE compliant

APPLICATIONS

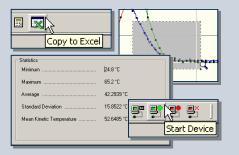
- Extreme temperature monitoring
- Warehouse monitoring
- HVAC
- Medical/Pharmaceutical
- Oven profiling
- Museum monitoring
- Environmental studies
- Replace costly strip chart recorders
- Implement HACCP programs

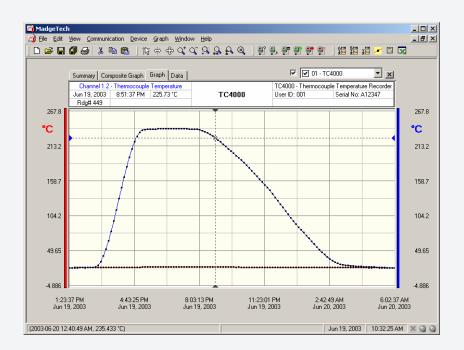


The TC4000 is a miniature, battery powered, stand alone, thermocouple based temperature recorder. This is an all-in-one compact, portable, easy to use device that will measure and record up to 16,383 measurements per channel. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The device can be started and stopped directly from your computer and its small size allows it to fit almost anywhere. The TC4000 makes data retrieval quick and easy. Simply plug it into an empty com port and our user-friendly software does the rest.

SOFTWARE

MadgeTech's Data Recorder Software is an easy to use Windows-based software package that allows the user to effortlessly collect, display and analyze data. A variety of powerful tools allow you to examine, export, and print professional looking data with just a click of the mouse.





Demo our software at <u>www.madgetech.com</u>

TC4000 SPECIFICATIONS							
Internal Channel Temperature Range:	-40 °C to +80 °C			Start Time:	Software programmable Start time and date. Up to six months in advance		
Temperature Resolution:	0.1 °C			Real Time Recording:			
Calibrated Accuracy:	±0.5 °C(0 to +50°C)				in real time		
				Memory:	16,383 readings per channel		
Remote Channel		.1		Reading Interval:	1 reading every 2 seconds to 1 every 12 hours		
Thermocouple Types:	J,K,T,E,R,S,B,I	N		Calibration:	Digital Calibration through software		
Thermocouple connection:	Female subminiature (SMP)			Calibration Date:	Automatically recorded within device		
Cold Junction Compensation:	Automatic, based on internal channel			Power:	3.6V lithium battery included		
				User Replaceable Battery:	1 year typical (1minute reading rate at 25 °C)		
Thermocouple	Range (ºC)	Resolution	Accuracy	Data Format:	Date and time stamped °C, °F, °K, °R		
J	-210 to +760	0.1 ⁰C	±0.5 °C	Time Accuracy:	±1 minute/month (at 20 °C, RS232 port not in use)		
К	-270 to +1370	0.1 °C	±0.5 °C	Computer Interface:	PC serial or RS232C COM (Interface cable		
т	-270 to +400	0.1 °C	±0.5 °C		required); 2,400 baud		
Е	-270 to +980	0.1 ⁰C	±0.5 °C	Software:	Windows 95/98/ME/NT/2000/XP based software		
R	-50 to +1760	0.5 °C	±2.0 ° C	Operating Environment:	-40 °C to +80 °C, 0 to 95 %RH non-condensing		
S	-50 to +1760	0.5 °C	±2.0 ° C	Dimensions:	1.4" x 2.2" x 0.6" (36mm x 56mm x 16mm)		
В	+50 to +1820	0.5 °C	±2.0 ° C	Weight:	0.9 oz (25 g)		
N	-270 to +1300	0.1 °C	±0.5 °C	Approvals:	CE		

BATTERY WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 212°F, INCINERATE OR EXPOSE CONTENTS TO WATER.

C4000 SOFTWARE FEATURES

IC4000 SOFTWARE FEATURES						
Multiple Graphs:	Simultaneously analyze data from several units or deployments; easily switch to a single data series	Statistics:	Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button			
Real-Time Recording:	Collect and display data in real-time while continuing to log	Export Data:	Export data in a variety of common formats, or switch to Excel with a single click			
Graphical Cursor:	One click displays readings by time, value, parameter or sample number	Calibration:	Fully digital calibration function automatically stores parameters in device			
Data Table:	Instantly access tabular view for detailed dates, times, values, and annotations	Logger Configuration:	Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID			
Scaling Options:	Autoscale function fits data to the screen, or allows user to manually enter their own values	Communications:	Automatically sets up communications port, or lets user set configuration			
Formatting Options:	Change colors, line styles, plotting options, show or hide channels in an instant	Printing:	Automatically print graphical or tabular data			

*Specifications are subject to change without notice. Specific warranty and remedy limitations apply. Call 1-603-456-2011 or go to www.madgetech.com for details.

ORI	DERING INFORMATION	ASK ABOUT OUR OTHER DATA RECORDERS			
Model	Description	Temperature	рН		
TC4000	Thermocouple Temperature Recorder	Humidity Pressure	Level Shock/Vibration		
IFC110	Software, manual and 9-pin computer interface cable	Bridge/Strain Current	Submersible Intrinsically Safe		
N.I.S.T. Cert	N.I.S.T. Calibration Certificate	Pulse/Event Voltage	RF Transmitters Multi-parameter		



201 Route 103 West - PO Box 50 · Warner, NH 03278 Phone: (603) 456-2011 · Fax: (603) 456-2012 info@madgetech.com · www.madgetech.com