

# MICROTEMP

## MINIATURE SUBMERSIBLE TEMPERATURE DATA LOGGER

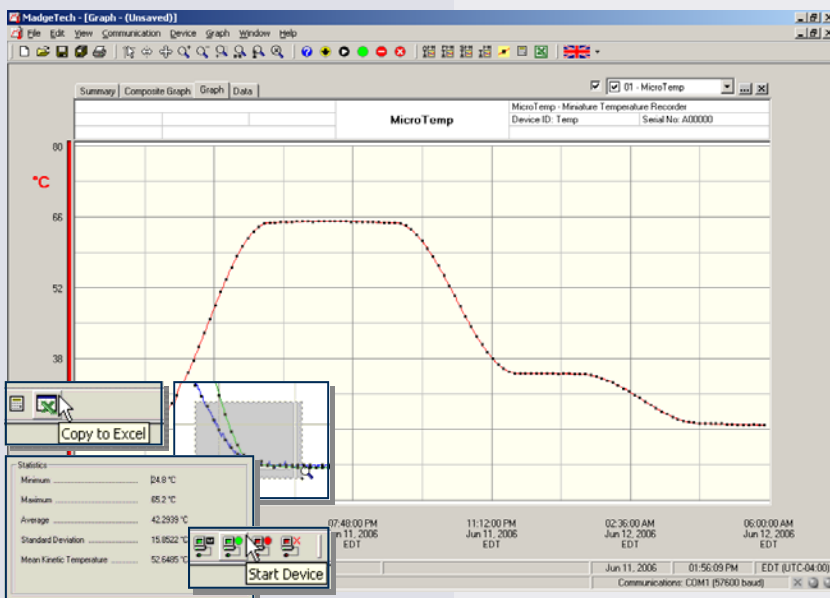
### Features

- Only 2.6" x 0.7" in size
- Reusable
- Submersible to 150 ft
- Programmable start time
- Real-time operation
- N.I.S.T. traceable
- User-friendly
- Low cost

### Applications

- Implement HACCP Programs
- Medical/Pharmaceutical
- Food preparation and processing
- Biomedical research
- Dish washer testing
- Hostile environment monitoring
- Environmental studies
- Well monitoring

The MicroTemp is a miniature, submersible, self-contained temperature recorder. Only 2.6" (66mm) tall and 0.7" (18mm) in diameter, this recorder can easily fit into the smallest spaces. It can even fit down the neck of most beverage bottles! Don't let the diminutive size fool you — this is an industrial grade instrument which boasts an accuracy specification of  $\pm 0.5^{\circ}\text{C}$  and will operate in temperatures from  $-40$  to  $+80^{\circ}\text{C}$ . Its food grade stainless steel casing makes it inert to most common fluids and gasses. It operates with user-replaceable batteries for up one year (typical use) and downloads data (32,767 readings) quickly to your PC. MadgeTech's miniature technology opens up new options for documenting and ensuring proper environments for pharmaceuticals, biomedical research, food processing and transport. Our easy to use, yet versatile software not only allows you to view the data in common temperature units such as  $^{\circ}\text{C}$  and  $^{\circ}\text{F}$ , but also in Kelvin and Rankine. Additionally, the software will automatically calculate Pasteurization Units (PU), F0 and Mean Kinetic Temperature (MKT) saving you time.



### MadgeTech Data Recorder Software

displays temperature data in an easy to use graph.

The Windows<sup>®</sup>-based software package 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.

Click [MadgeTech Software](#) for more information or to download the software.

## MICROTEMP SPECIFICATIONS\*

<b>Temperature Sensor:</b> Internal Semiconductor	<b>Reading Rate:</b> 1 reading every 2 seconds to 1 every 12 hours
<b>Temperature Range:</b> -40 to +80°C	<b>Start Modes:</b> Software programmable immediate start or delay start up to six months in advance
<b>Temperature Resolution:</b> 0.1°C	<b>Data Format:</b> Date and time stamped °C, °F, K, °R
<b>Calibrated Accuracy:</b> ±0.5°C (0 to +50°C)	<b>Battery Type:</b> 3.6V lithium battery included, <b>user replaceable</b>
<b>Alarm:</b> Programmable high and low limits; Alarm is activated when temperature reaches or exceeds set limits.	<b>Battery Life:</b> 1 year typical at 25°C, 1 minute reading intervals
<b>Activity Indicator:</b> Green LED blinks to indicate device has been started, red LED blinks if an alarm condition exists.	<b>Time Accuracy:</b> ±1 minute/month at 20°C
<b>Calibration:</b> Digital calibration through software	<b>Computer Interface:</b> PC serial or USB (interface cable required); 38,400 baud
<b>Calibration Date:</b> Automatically recorded within device	<b>Software:</b> XP SP3/Vista/Windows 7
<b>Real Time Recording:</b> May be used with PC to monitor and record data in real time	<b>Operating Environment:</b> -40 to +80°C, 0 to 100%RH
<b>Memory:</b> 32,767 readings; software configurable memory wrap	<b>Submersible:</b> Up to 150 ft.
	<b>Dimensions:</b> 2.6" X 0.7" dia. (66mm x 18mm dia.)
	<b>Weight:</b> 1.8 oz (50 g)
	<b>Material:</b> 316L Stainless Steel (food grade)
	<b>Approvals:</b> CE Compliant, Approved for carriage on Delta® mainline flights

**BATTERY WARNING:** RISK OF FIRE AND BURNS. DO NOT RECHARGE, SHORT, DISASSEMBLE, HEAT ABOVE 100°C OR INCINERATE.

## SOFTWARE FEATURES

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

## ORDERING INFORMATION

<u>Model</u>	<u>Description</u>	<u>Price (U.S.)</u>
MICROTEMP	Miniature Submersible Temperature Recorder	\$199.00
IFC102	Software, manual and RS232 interface cable for Micro Series.	\$99.00
IFC202	Software, manual and USB interface cable for Micro Series.	\$119.00
NIST	N.I.S.T. Calibration Certificate	Call for Pricing
ER14250	Replacement battery for MicroTemp	\$10.00
SVP –Secure	Protocols for validating the 21 CFR Part 11 ready, secure data logging system	\$600.00
SVP-Secure License	License for MadgeTech SVP-Secure Software (unlimited users, license per computer)	\$1000.00

### ASK ABOUT OUR OTHER DATA RECORDERS

Temperature	Pulse/Event/State
Humidity	Low Level Current
Pressure	Low Level Voltage
pH	RF Transmitters
Level	Intrinsically Safe
Shock	Spectral Vibration
LCD Display	

For Quantity Discounts call 603-456-2011 or email [sales@madgetech.com](mailto:sales@madgetech.com)

