

# 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
- Approved for Delta® Mainline Flights

### Benefits

- Simple Setup and Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment

### Applications

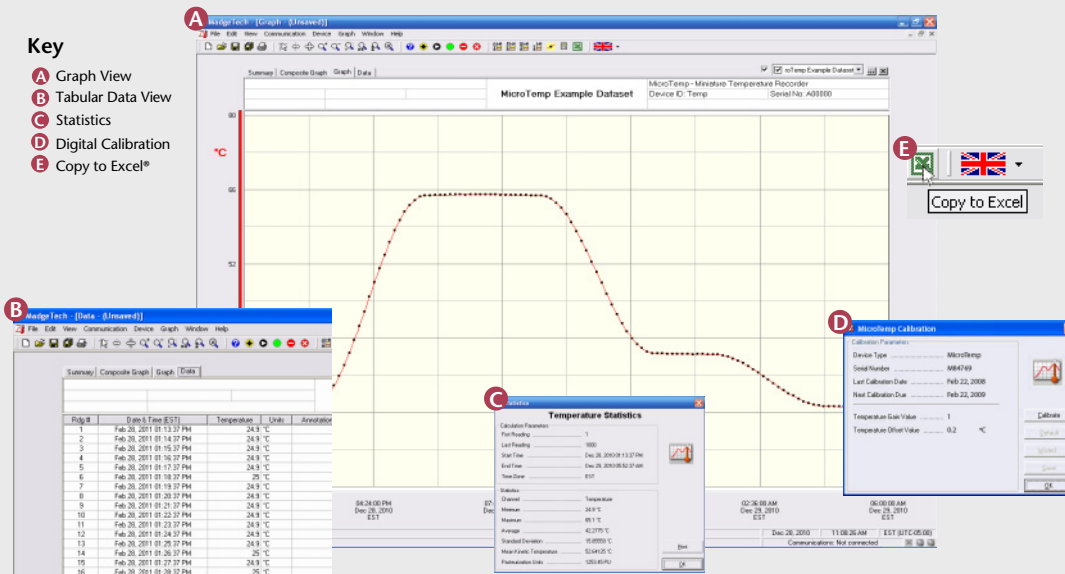
- Implement HACCP Programs
- Medical/Pharmaceutical
- Food Preparation and Processing
- Biomedical Research
- Dishwasher Testing
- Hostile Environment Monitoring
- Environmental Studies
- Well Monitoring



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 LOGGER SOFTWARE



- ### Software Features:
- Multiple graph overlay
  - Statistics
  - Digital calibration
  - Zoom in/ zoom out
  - Lethality equations (F<sub>0</sub>, PU)
  - Mean Kinetic Temperature
  - Full time zone support
  - Data annotation
  - Min./Max./Average lines
  - Data table view
  - Automatic report generation
  - Summary view
  - Multilingual

# MICROTEMP SPECIFICATIONS\*

<b>Temperature Sensor:</b> Internal Semiconductor
<b>Temperature Range:</b> -40 to +80°C
<b>Temperature Resolution:</b> 0.01°C (0.018°F)
<b>Calibrated Accuracy:</b> ±0.5°C (±0.9°F)
<b>Alarm:</b> Programmable high and low limits; Alarm is activated when temperature reaches or exceeds set limits.
<b>Activity Indicator:</b> Green LED blinks to indicate device has been started, red LED blinks if an alarm condition exists.
<b>Calibration:</b> Digital calibration through software
<b>Calibration Date:</b> Automatically recorded within device
<b>Real Time Recording:</b> May be used with PC to monitor and record data in real time
<b>Memory:</b> 32,767 readings; software configurable memory wrap
<b>Reading Rate:</b> 1 reading every 2 seconds to 1 every 12 hours
<b>Start Modes:</b> Software programmable immediate start or delay start up to six months in advance

<b>Data Format:</b> Date and time stamped °C, °F, K, °R
<b>Battery Type:</b> 3.6V lithium battery included, <b>user replaceable</b>
<b>Battery Life:</b> 1 year typical at 25°C, 1 minute reading intervals
<b>Time Accuracy:</b> ±1 minute/month at 20°C
<b>Computer Interface:</b> PC serial or USB (interface cable required); 38,400 baud
<b>Software:</b> XP SP3/Vista/Windows 7
<b>Operating Environment:</b> -40 to +80°C, 0 to 100%RH
<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:** WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, CRUSH, PENETRATE, OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 100°C (212°F).

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

## ORDERING INFORMATION

MODEL	DESCRIPTION
MICROTEMP	Miniature Submersible Temperature Recorder
IFC102	Software, manual and RS232 interface cable for Micro Series.
IFC202	Software, manual and USB interface cable for Micro Series.
*N.I.S.T.	N.I.S.T. Calibration Certificate
ER14250	Replacement battery for MicroTemp
SVP –Secure	Protocols for validating the 21 CFR Part 11 ready, secure data logging system
SVP-Secure License	License for MadgeTech SVP-Secure Software (unlimited users, license per computer)

**ASK ABOUT OUR OTHER DATA LOGGERS**

- Temperature
- Humidity
- Pressure
- pH
- Level
- Shock
- LCD Display
- Pulse/Event/State
- Current
- Voltage
- Wireless
- Intrinsically Safe
- Spectral Vibration
- Motion

\*To order the product with the N.I.S.T. certificate add -CERT to the end of the part number.

