

MicroTemp100

Miniature Submersible Temperature Data Logger

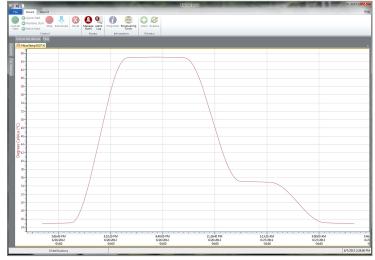


The MicroTemp100 is a miniature data logger built to withstand temperatures up to 100 °C (212 °F). Only 2.6 inch (66 mm) tall and 0.7 inch (18 mm) in diameter, this data logger can easily fit into the smallest spaces and is submersible up to 230 ft (70 m).

Don't let its tiny size fool you, the MicroTemp100 measures and records temperatures ranging from $-40\,^{\circ}\text{C}$ to $+100\,^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to $+212\,^{\circ}\text{F}$). The MicroTemp100 has a storage capacity of 32,767 readings and is equipped with an LED alarm to warn when userspecified high/low temperature limits are breached.

The MicroTemp100 is compatible with the latest MadgeTech 4 Software making starting, stopping, and downloading simple and easy. Graphical, tabular, and summary data is provided for analysis and can be viewed as customizable engineering units.

MadgeTech 4 Software Features



Graph View

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Summary view

Features

- Only 2.6 inch x 0.7 inch in Size
- Reusable
- Submersible to 230 ft (70 m)
- Programmable Start Time
- Real-time Operation
- User-friendly
- Low Cost

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
- Pasteurization



Flag1 (28.02 °C)

Cooling Flags

Report Export to Properties Excel Report Options

Export to Excel

MicroTemp100

SPECIFICATIONS

TEMPERATURE	
Temperature Sensor	Internal Semiconductor
Temperature Range	-40 °C to +100 °C (-40 °F to +212 °F)
Temperature Resolution	0.1 °C
Calibrated Accuracy	±0.5 °C (0 °C to 50 °C) ±1.0 °C (50.1 °C to 100 °C) ±2.0 °C (-40.0 °C to -0.1 °C)

GENERAL		
Start Modes	Software programmable immediate start Delay start up to 6 months in advance	
Real Time Recording	May be used with PC to monitor and record data in real time	
Memory	32,767 readings	
Wrap Around	Yes	
Reading Rate	1 reading every 2 seconds up to 1 reading every 12 hours	
LEDs	1 status LED	
Calibration	Digital calibration through software	
Calibration Date	Automatically recorded within device	
Battery Type	3.6 V lithium battery included; user replaceable	
Battery Life	1 year typical at +25 °C, 1 minute reading intervals	
Data Format	Date and time stamped °C, K, °F or °R	
Time Accuracy	±1 minute/month at +20 °C	
Computer Interface	USB interface cable required; 38,400 baud	
Operating System Compatibility	Windows XP SP3 or later	
Software Compatibility	Standard Software version 4.2.21.0.0 or later	
Operating Environment	-40 °C to +100 °C (-40 °F to +212 °F), 0 %RH to 100 %RH	
IP Rating	IP68	
Dimensions	2.6 in x 0.7 in dia. (66 mm x 18 mm dia.)	
Weight	1.8 oz (50 g)	
Material	316 Stainless Steel (food grade)	
Approvals	CE	

BATTERY 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 150 °C (302 °F).

Ordering Information

MicroTemp100	PN 902239-00	Miniature Submersible Temperature Data Logger
IFC202	PN 900309-00	USB interface cable
ER14250MR-145	PN 900097-00	Replacement battery for the MicroTemp100

