



**MONARCH INSTRUMENT**

*Innovation in Instrumentation*

# DataChart<sup>â</sup> Temp 101

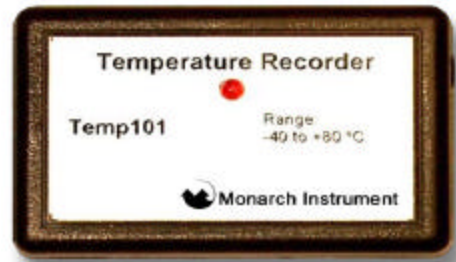
Temperature Data Logger

## Features

- Temperature Range: -40°C to +80°C
- Memory Size: 32,767 Readings
- Programmable Start Time
- Reusable
- Miniature Size
- N.I.S.T. Traceable
- User Calibration through Software
- Calibration Date Stored in Memory
- Programmable Alarm
- No Programming Experience Necessary
- Real Time Operation
- Low Cost
- Quick Setup

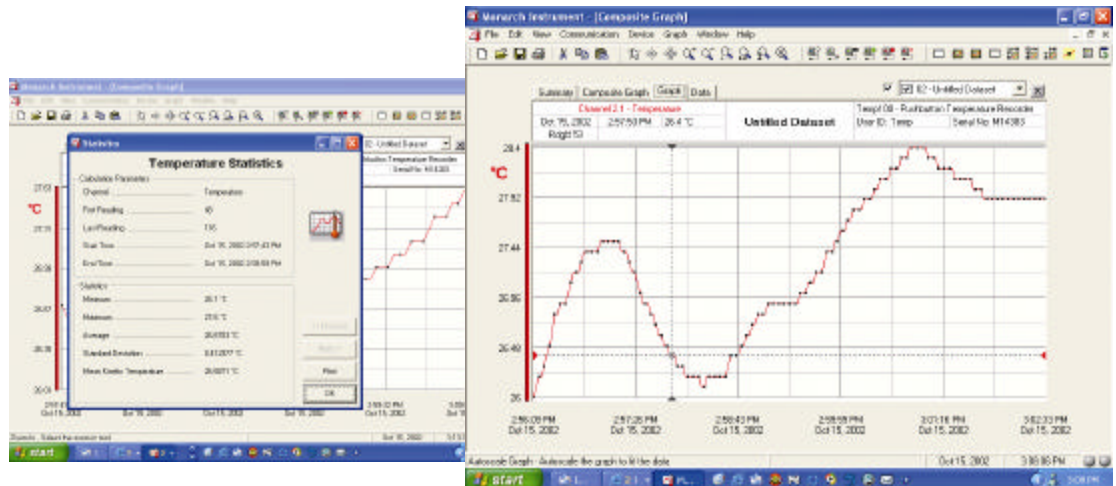
## Applications

- Record Temperature of Perishable Goods during Transit.
- Implementing HACCP Programs
- Medical/Pharmaceutical
- Museum Monitoring
- Warehouse Monitoring
- Environmental Studies
- Replace Costly Strip Chart Recorders
- HVAC



## Description

The Temp101 is a miniature, battery powered, stand-alone, temperature data logger. This all-in-one compact, portable, easy to use device will measure and record up to 32,767 temperature measurements. It can be started and stopped directly from your computer. The Temp101 is a major leap forward in both size and performance. Its real time clock ensures that all data is time and date stamped. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. Its small size allows it to fit almost anywhere. Data retrieval is simple. Plug it into an empty com port and our easy to use software does the rest.



## Specifications

**Temperature Range:** -40°C to +80°C

**Calibrated Temperature Accuracy:** ±0.5°C  
(0°C to +50°C)

**Temperature Resolution:** 0.1°C

**Temperature Calibration:** Digital calibration is available through software.

**N.I.S.T. Traceable:** N.I.S.T. certificates available

**Calibration Date:** Automatically recorded within device to alert user when calibration is required.

**Recording Interval:** 30/minute to 2/day selectable.

**Start/Stop:** Start time and date are programmable through software enabling users to synchronize multiple devices and delay start of data collection until device is in place.

**Alarm Indicator:** Red LED flashes at 1 second interval indicating alarm condition.

**Memory:** 32,767 temperature readings.

**User-Replaceable Battery:** 2 years typical.

**Time Accuracy:** ±1 min/month at 20°C when RS 232 is not in use.

**Data Format:** Date and Time stamped, % RH, mg. of water vapor concentration, °C, °F, °K, °R.

**Shock resistance:** Drop proof to 5'.

**Weight:** 1 oz. (30g)

**Computer Interface:** RS232C Serial Port

**Software:** Windows®95/98/NT/2000/XP based software for complete control and operation.

**Operating Environment:** -40°C to + 80°C,  
(-40°F to +176°F) 5% to 95% RH  
(non-condensing).

**Dimensions:** 1.4"Hx2.2"Lx0.6"D (36mm x  
56mm x 16mm)

**Material:** ABS Plastic

## Software Features

*The software used to operate the Temp101 requires no programming skills. It enables users to effortlessly select reading rate, user ID and initiate the start of data collection within moments after user connects hardware. After retrieving the data, it may be viewed instantly in graphical or tabular form.*

**Zoom In/Out:** Use mouse to click and drag to select area for zooming in or out.

**Statistics:** min, max, mean, mean kinetic temperature, standard deviation

**Cursor:** Use mouse to click on graph to obtain specific data point information.

**Programmable Start Time:** Program start time and date through software.

**Real Time Operation:** Convert PC into strip chart recorder for real time data collection.

**Annotating Data:** All data points may be easily annotated.

**Printing:** Automatic printing of data in graphical or tabular form

**User ID:** Programmable through software and stored within device.

**AutoScale:** Autoscale function may be enabled or disabled by user.

**Calibration:** Automatic calibration in software and calibration parameters stored within device

**Exporting Data:** All data can be directly exported to Microsoft Excel® or to text format.

**Graph Grid Size:** Many options for grid size available.

## ORDERING INFORMATION

Item No.	Model	Description
5399-0101	Temp101	Miniature Temperature Logger
5399-9901	IFC101	Interface Cable, Software, Manual
5399-9999	N.I.S.T. Cert.	N.I.S.T. Calibration Certificate

## Ask About Our Other Data Loggers

Temperature	4.0 to 20.0 mA
Humidity	Pulse/Counter
Pressure	Submersible
pH	Level
Shock/Vibration	Multi-Parameter
Voltage	Intrinsically Safe
RF Transmitters	

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