



# DataChart® MicroRHTemp

## Humidity & Temperature Recorder

### Features

- Temperature Range: -40 to +80°C
- Humidity Range: 0% to 99% RH
- Memory: 16,384 humidity and 16,384 temperature readings
- Programmable Start Time
- Dew Point Calculated in Software
- Vapor Concentration Calculated in Software
- Reusable
- Miniature Size
- N.I.S.T. Traceable
- User Calibration through Software
- No Programming experience necessary
- Real Time Operation
- Low Cost
- Operational in Minutes
- Record Keeping Simplified



### Description

The MicroRHTemp is a miniature, battery powered, stand-alone, temperature and humidity recorder. This all-in-one compact, portable, easy to use device will measure and record up to 16,384 humidity and 16,384 temperature measurements. The MiniRHTemp 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.

### Applications

- Record Temperature and Humidity of perishable goods in transit.
- Implementing HACCP Programs
- Medical/Pharmaceutical
- Museum Monitoring
- Warehouse Monitoring
- Environmental Studies
- Replace Costly Strip Chart Recorders
- HVAC

Monarch Instrument - [Composite Graph]

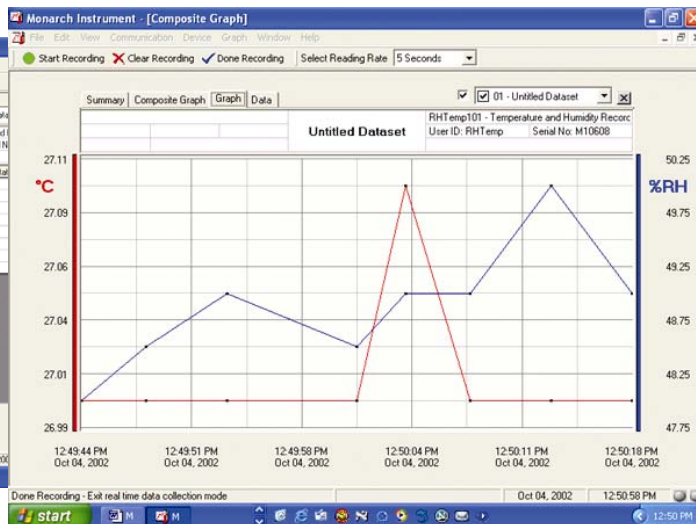
Start Recording Done Recording Select Reading Rate: 5 Seconds

Summary Composite Graph Graph Data

01 - Untitled Dataset

Qty #	Date	Time	Temperature	Units	Humidity	Units	Annotation
1	Oct 04, 2002	12:49:44 PM	27 °C		49 %RH		
2	Oct 04, 2002	12:49:48 PM	27 °C		48.5 %RH		
3	Oct 04, 2002	12:49:53 PM	27 °C		49 %RH		
4	Oct 04, 2002	12:50:01 PM	27 °C		48.5 %RH		
5	Oct 04, 2002	12:50:04 PM	27.1 °C		49 %RH		
6	Oct 04, 2002	12:50:08 PM	27 °C		49 %RH		
7	Oct 04, 2002	12:50:13 PM	27 °C		50 %RH		
8	Oct 04, 2002	12:50:18 PM	27 °C		49 %RH		

Data Recorder Software Data Table



Data Recorder Software Trend Graph

## Specifications

**Temperature Range:** -40°C to +80°C

**Temperature Accuracy:** 0.5°C

**Temperature Resolution:** 0.1°C

**Humidity Range:** 0% to 99% RH (non-condensing)

**Humidity Accuracy:** 3% RH

**Humidity Resolution:** 0.5% RH

**Temperature/Humidity 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 1/day selectable through software.

**Start Time:** Start time and date are programmable through software.

**Alarm:** Programmable high and low limits. Alarm is activated when temperature goes outside limits.

**Real Time Recording:** Device may be used with PC to monitor and record data in real time.

**Alarm Indicator:** Red LED flashes at selected reading rate or at 1 sec. rate under alarm condition.

**Memory:** 16,384 temperature readings and 16,384 humidity readings max.

**User-Replaceable Battery:** 1 year typical.

**Time Accuracy:** ±1 minute per month at 20°C.

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

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

**Weight:** 1 oz. (25.5g)

**Computer Interface:** RS232C Serial Port

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

**Operating Environment:** -40°C to +80°C, 0% to 99% RH (non-condensing).

**Dimensions:** 0.6" Diameter x 1.5" length

**Material:** Delrin® or Stainless Steel

## Software Features

The software used to operate the MicroRHTemp requires no programming skills, 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 reading 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

**Units:** °C, °F, °K, °R, %RH, dew point, mg. of water vapor concentration.

**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.

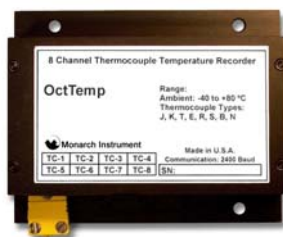
**Graph Grid Size:** The grid size is user selectable.

## ORDERING INFORMATION

Item No.	Model	Description
5399-0202	MicroRHTemp	Miniature Temperature and Humidity Data Logger
5399-9901	IFC101	9 Pin Computer Interface Cable
		Software & Manual

## 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	



**OctTemp**  
**8 channel**  
**Thermocouple-based**  
**Temperature Recorder**

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