

# TEMPRETRIEVER-RH

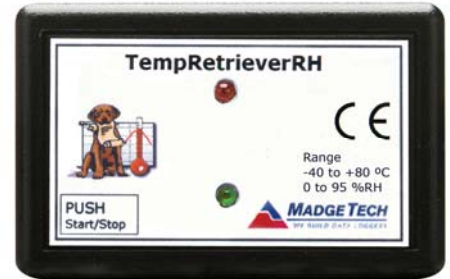
## LOW COST TEMPERATURE & HUMIDITY DATA LOGGER

### Features

- Low cost
- User-friendly
- Push button start and stop
- LED alarm indication
- User selectable alarm limits
- Programmable start time
- Reusable
- Miniature size
- 38,400 baud offload speed
- Approved for Delta® Mainline Flights

### Applications

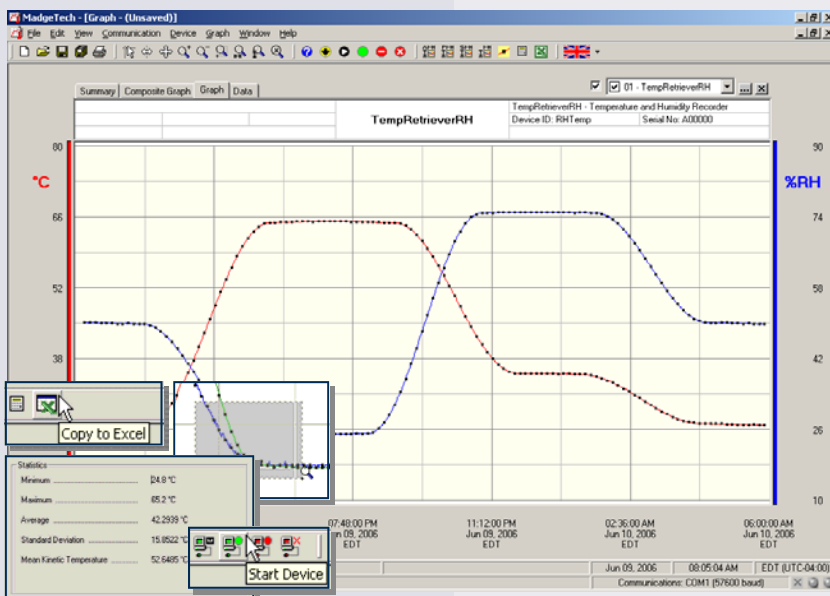
- Implement HACCP programs
- Cold chain monitoring
- Verify products are stored and shipped safely
- Monitor refrigerated cars
- Medical and Pharmaceutical
- Meat aging
- Laboratory
- Research and Development
- Replace costly strip chart recorders



To ensure the quality of perishable goods, temperature and humidity monitoring has become essential in applications such as transportation and storage, horticulture, and heating and ventilation. The TempRetriever-RH makes safeguarding against dangerous environments simple.

The TempRetriever-RH is a low cost, reusable, temperature and humidity recorder. No external probes are required to achieve its high performance as both the humidity and temperature sensors are internal to the device. The device can record up to 16,383 readings in its non-volatile memory and coupled with up to a one year battery life, this makes for the perfect temperature and humidity recorder when keeping down costs is paramount.

The MadgeTech software includes a full host of features that allows the user to set the start method (i.e. pushbutton, delayed start or start now), start date and time, sample rate, high/low alarm limits, 6-character device ID and a 16-character extended ID. Data can be offloaded and displayed in most common temperature and humidity units. The software will also automatically calculate Mean Kinetic Temperature, dew point, water vapor concentration as well as other useful statistics to simplify analysis. For additional custom analysis, the data can be quickly exported into a MS Excel® spreadsheet with the click of a button.



### MadgeTech Data Recorder Software

displays humidity and temperature data in an easy to use graph.

The Windows®-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.

Supplied in Australia by Instrument Choice  
 Call our scientists on 1300 737 871  
[www.instrumentchoice.com.au](http://www.instrumentchoice.com.au)

## TEMPRETRIEVER-RH SPECIFICATIONS\*

<b>Temperature Sensor:</b> Semiconductor	<b>Reading Rates:</b> 1 reading every 5 seconds to 1 every 30 minutes
<b>Temperature Range:</b> -40 to +80°C	<b>Start Modes:</b> Software programmable immediate start or delay start up to 6 months in advance; or external pushbutton
<b>Temperature Resolution:</b> 0.1°C	<b>Time Accuracy:</b> ±2 minute/month at 25°C.
<b>Calibrated Accuracy:</b> ±0.5°C (0 to +50°C)	<b>Data Format:</b> Date and time stamped °C, °F, K, °R; %RH, mg/ml water vapor concentration
<b>Humidity Sensor:</b> Semiconductor	<b>Calibration:</b> Digital calibration through software
<b>Humidity Range:</b> 0 to 95%RH	<b>Calibration Date:</b> Automatically recorded within device
<b>Humidity Resolution:</b> 0.1%RH	<b>Battery Type:</b> 3.6V lithium battery included, <b>user replaceable</b>
<b>Calibrated Accuracy:</b> ±3.0%RH (±2%RH typical at 25°C)	<b>Battery Life:</b> 1 year typical @ 25°C, 1 minute reading rate
<b>Accuracy Range:</b> +10 to +40°C, 10 to 80%RH	<b>Computer Interface:</b> PC serial or USB (interface cable required); 38,400 baud
<b>Response Time:</b> 90% change in 60 seconds in slow moving air	<b>Software:</b> XP SP3/Vista/Windows 7
<b>Activity Indicator:</b> Green LED blinks every 15 seconds to indicate device has been started.	<b>Operating Environment:</b> -40 to +80°C, 0 to 95%RH non-condensing
<b>Temperature Alarm:</b> Programmable high and low limits; When logged data reaches or exceeds either limit, red LED blinks every three seconds	<b>Dimensions:</b> 1.4" x 2.2" x 0.6" (36mm x 56mm x 16mm)
<b>Memory:</b> 16,383 readings per channel; 32,766 total readings	<b>Weight:</b> 0.9 oz (24 g)
	<b>Approvals:</b> Approved for carriage on Delta® mainline flights

**BATTERY WARNING:** FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 212°F, INCINERATE OR EXPOSE CONTENTS TO WATER.

## 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

Model	Description
TEMPRETRIEVER-RH	Low cost, Reusable, Humidity and Temperature Recorder
IFC110	Software, manual and RS232 interface cable
IFC200	Software, manual and USB interface cable
LTC-7PN	Replacement battery for TempRetriever-RH
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 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 1300 737 871 or email [customer-service@instrumentchoice.com.au](mailto:customer-service@instrumentchoice.com.au)

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