

RHTemp101A

HUMIDITY AND TEMPERATURE DATA LOGGER



Features

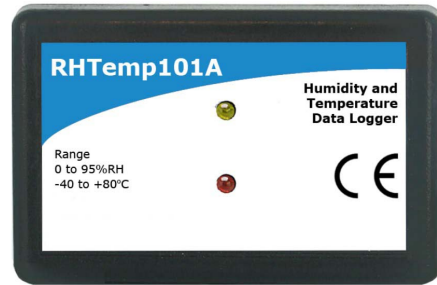
- 10 Year Battery Life
- 1 Second Reading Rate
- Multiple Start/Stop Function
- Ultra High Speed Download
- 1,000,000 Readings Per Channel, Storage Capacity
- Memory Wrap
- Precision RTD Sensing Element
- Battery Life Indicator
- Optional Password Protection
- Programmable High and Low Alarms
- N.I.S.T. Traceable
- Field Upgradeable

Benefits

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

Applications

- Implement HACCP Programs
- HVAC
- Warehouse Monitoring
- Museum Monitoring
- Medical/Pharmaceutical



The RHTemp101A is one of MadgeTech's newest data loggers. It is part of a new series of low cost, state-of-the-art data logging devices. MadgeTech has taken the lead in offering the most advanced, low cost, battery powered data loggers in the world today.

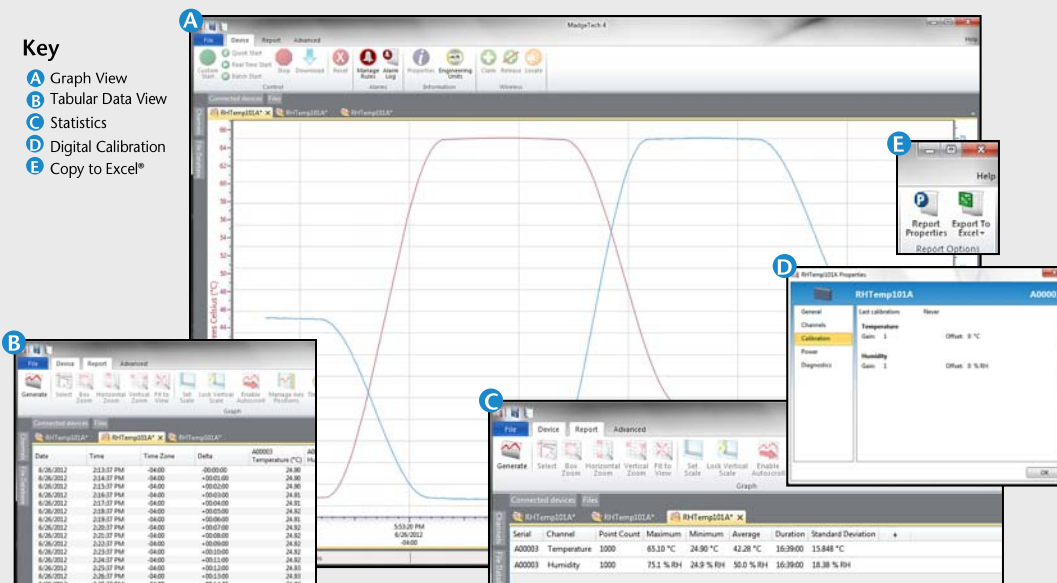
The RHTemp101A offers a 10 year battery life, a 1 second reading rate, a multiple start/stop function, ultra-high speed download capability, 1,000,000 readings per channel storage capacity, optional memory wrap, precision RTD sensing element, battery life indicator, optional password protection, programmable high-low humidity alarms and more. The RHTemp101A is priced at \$149 each and can be delivered from stock now. Our research has shown that the RHTemp101A is second to no other data logger when it comes to price and performance.

Using the MadgeTech Software, starting, stopping and downloading from the RHTemp101A is simple and easy. Graphical, tabular and summary data is provided for analysis and data can be viewed in °C, °F, K, °R, %RH, mg/ml water vapor concentration and dew point. The data can also be automatically exported to Excel® for further calculations.

As the leader in low power data logger technology, MadgeTech continuously improves its products and develops solutions to meet ever-changing challenges. The RHTemp101A was designed with our customers in mind. MadgeTech offers free firmware upgrades for the life of the product so that data loggers already deployed in the field can grow with new technological developments. Units do not need to be returned to the factory for upgrades. The user can do this automatically from any PC.

Key

- A Graph View
- B Tabular Data View
- C Statistics
- D Digital Calibration
- E Copy to Excel®



Software Features:

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F_0 , PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual



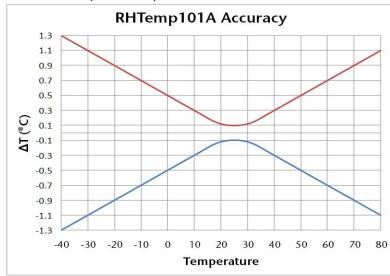
RHTEMP101A SPECIFICATIONS*

Temperature Sensor: Precision RTD Element

Temperature Range: -40°C to +80°C (-40°F to +176°F)

Temperature Resolution: 0.01°C (0.018°F)

Calibrated Accuracy: ±0.5°C (±0.9°F)



Humidity Sensor: Internal Semiconductor

Humidity Range: 0 to 95%RH

Humidity Resolution: 0.1%RH

Calibrated Accuracy: ±3.0%RH (±2%RH typical at 25°C/77°F)

Specified Accuracy Range: +10°C to +40°C (50°F to 104°F); 10%RH to 80%RH

Reading Rate: 1 reading every second to 1 reading every 24 hours

Memory: 1,000,000 readings per channel; software configurable memory wrap
500,000 readings in multiple start/stop mode

Wrap Around: Yes

Start Modes: • Immediate start
• Delay start up to 18 months
• Multiple pushbutton start/stop

Multiple Start/Stop Mode: Start and stop the device multiple times without having to download data or communicate with a PC

Stop Modes: • Manual through software
• Timed (specific date and time)

Multiple Start/Stop Mode To start the device:

Activation: Press and hold the pushbutton for 5 seconds, the green LED will flash during this time. The device has started logging.

To stop the device:

Press and hold the pushbutton for 5 seconds, the red LED will flash during this time. The device has stopped logging.

Real Time Recording: The device may be used with PC to monitor and record data in real-time

Alarm: Programmable high and low limits; alarm is activated when humidity reaches or exceeds set limits

LED Functionality: Green LED blinks:
10 second rate to indicate logging
15 second rate to indicate delay start mode

Red LED blinks:
10 second rate to indicate low battery and/or full memory
1 second rate to indicate an alarm condition

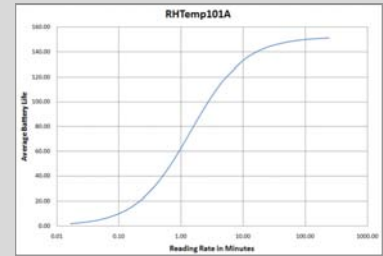
Password Protection: An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password.

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Battery Type: 3.6V lithium battery included; user replaceable

Battery Life: 10 years typical at a 15 minute reading rate



Graph display of the device recording in a 25° C environment.

Data Format: Date and time stamped °C, °F, K, °R; %RH, mg/ml water vapor concentration, dew point

Time Accuracy: ±1 minute/month (at 20°C/68°F, stand alone data logging)

Computer Interface: USB (interface cable required); 115,200 baud

Software: Version 2.06.3 or higher XP SP3/Vista/Windows 7

Operating -40°C to +80°C (-40°F to +176°F),
Environment: 0%RH to 95%RH non-condensing

Dimensions: 1.4" x 2.2" x 0.6" (36mm x 56mm x 16mm)

Weight: 0.9 oz (24 g)

Materials: ABS Plastic

Approvals: CE

BATTERY WARNING: WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 80°C (176°F).

ORDERING INFORMATION

MODEL	DESCRIPTION
RHTEMP101A	Humidity and Temperature Data Logger
IFC200	Software, manual and USB interface cable
N.I.S.T.	N.I.S.T. Calibration Certificate
LTC-7PN	Replacement battery for RHTemp101A

ASK ABOUT
OUR OTHER
DATA
LOGGERS

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



PLCs



Acquisition



Instruments



Data logger



Power



HMIs



Switches



Motion



Sensors



Converters



Keyboards



SCADA



Telemetry