RHTEMP101A
HUMIDITY AND TEMPERATURE DATA LOGGER

Features

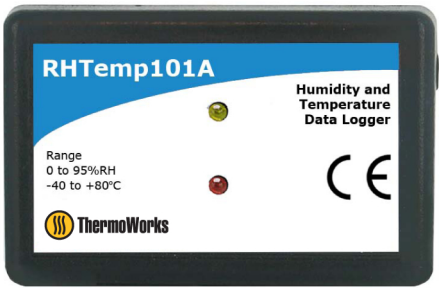
- 10 Year Battery Life
- 1 Second Reading Rate
- Multiple Start/Stop Function
- Ultra High Speed Download
- 500,000 Reading Storage Capacity
- Memory Wrap
- Precision RTD Sensing Element
- Battery Life Indicator
- Optional Password Protection
- Programmable High and Low Alarms
- N.I.S.T. Traceable
- 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
- General Purpose Humidity Recording



The RHTemp101A is one of ThermoWorks' newest data loggers. It is part of a new series of low cost, state-of-the-art data logging devices. ThermoWorks 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, 500,000 reading 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.

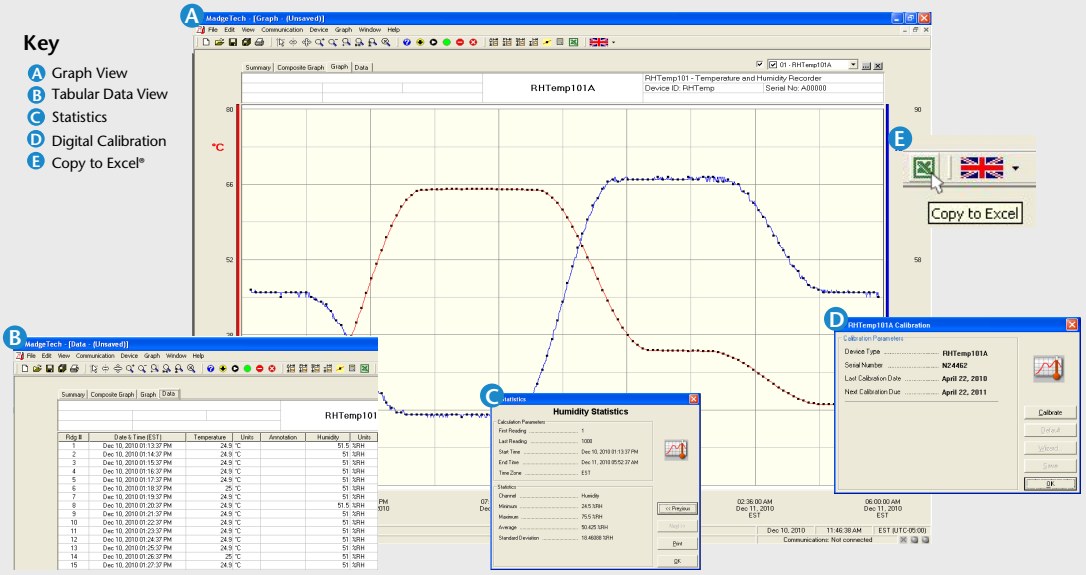
Using the ThermoWorks Software, starting, stopping and downloading from the RHTemp101A is simple and easy. Graphical, tabular and summary data is provided for analysis and data can be viewed in °C, °F, K,°R, %RH, mg/ml water vapor concentration and dew point. The data can also be automatically exported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

As the leader in low power data logger technology, ThermoWorks continuously improves its products and develops solutions to meet ever-changing challenges. The RHTemp101A was designed with our customers in mind. ThermoWorks 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.

THERMOWORKS DATA LOGGER SOFTWARE

Key

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

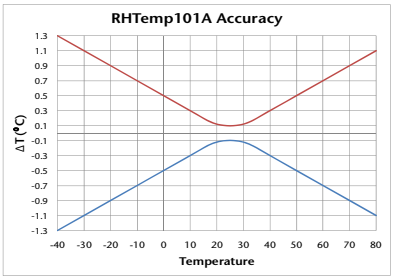


Software Features:

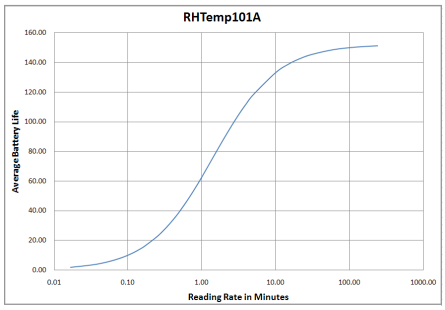
- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F_0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

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 (±0.9F)



Humidity Sensor:	Internal Semiconductor
Humidity Range:	0 to 95%RH
Humidity Resolution:	0.1%RH
Calibrated Accuracy:	±3.0%RH (±2%RH typical at 25ºC/77ºF)
Specified Accuracy Range:	+10ºC to +40ºC (50ºF to 104ºF) ; 10%RH to 80%RH
Reading Rate:	1 reading every second to 1 reading every 24 hours
Memory:	500,000 readings; software configurable memory wrap 250,000 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
Multiple Start/Stop Mode Activation:	To start the device: *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 ºC, ºF, K, ºR ; %RH, mg/ml water vapor concentration, dew point
Time Accuracy:	±1 minute/month (at 20ºC/68ºF, stand alone data logging)
Computer Interface:	USB (interface cable required); 115,200 baud
Software:	XP SP3/Vista/Windows 7
Operating Environment:	-40ºC to +80ºC(-40°F to +176°F), 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).*

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY. CALL 1-801-756-7705 OR GO TO WWW.THERMOWORKS.COM FOR DETAILS.

ORDERING INFORMATION

MODEL	DESCRIPTION	PRICE (U.S.)
RHTEMP101A	Humidity and Temperature Data Logger	$149.00
IFC200	Software, manual and USB interface cable	$119.00
N.I.S.T.	N.I.S.T. Calibration Certificate	$90.00
LTC-7PN	Replacement battery for RHTemp101A	$10.00

For Quantity Discounts call 801-756-7705 or email sales@thermoworks.com

*To order the product with the N.I.S.T. certificate add *-CERT* to the end of the part number and add $90.00 to the price.

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