MADGETECH
WE BUILD DATA LOGGERS

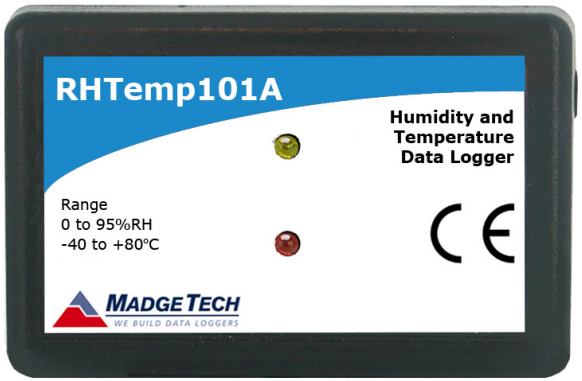
Product Information Card

RHTemp101A

Specification	RHTemp101A
Temperature Sensor	Precision RTD Element
Temperature Range	–40 to +80°C (-40°F to +176°F)
Temperature Resolution	0.1°C
Calibrated Accuracy	±0.5°C
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)
Memory	1,000,000 readings per channel 500,000 readings in multiple start/stop mode
Wrap Around	Yes
Sample Rate	1 second up to 24 hours
RH Units	%RH, dew pt., water vapor concentration (mg/ml)
Alarm	Yes
Required Interface Package	IFC200
Baud Rate	115,200
Typical Battery Life	10 years at a 15 minute reading rate
Operating Environment	–40°C to +80°C (-40°F to +176°F), 0 to 95%RH non-condesing
Material	ABS Plastic
Dimensions	1.4" x 2.2" x 0.6" (36mm x 56mm x 16mm)
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).



RHTemp101A
Humidity and Temperature Data Logger
with a 10 Year Battery Life

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Product Notes

LEDs

- Green LED blinks: 10 seconds to indicate logging and 15 seconds to indicate delay start mode
- Red LED blinks: 10 seconds to indicate low battery and/or memory and 1 second 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.

Multiple Start/Stop Mode Activation

To start 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.

Alarm

Programmable high and low limits; alarm is activated when temperature reaches or exceeds set limits.

Installation Guide

Installing the Interface cable

- IFC200:
  Insert the device into a USB port. The drivers will install automatically.

Installing the software

Insert the Software CD in the CD Drive. If the autorun does not appear, locate the drive on the computer and double click **Autorun.exe**. Follow the instructions in the Wizard.

Connecting the data logger

- Once the software is installed and running, plug the interface cable into the data logger.
- Click the Communication Menu, then Auto Configure Port.
- After a moment, a box will appear stating a device has been found.
- Click **OK**. The **Device Status** box will appear. Click **OK**.
- At this point, communications have been configured for your logger. These settings can be found under the **Communication Menu**.

Note: For additional installation instructions refer to your "Data Logger & Software Operating Manual".

Device Operation

Starting the data logger

- Click **Device Menu** then **Start Device**.
- Choose the desired start method.
- Choose the start parameters by selecting a **Reading Rate** suitable for your application.
- Enter in any other desired parameters and click **Start**.
- A box will appear stating the data logger has been started. Click **OK**.
- Disconnect the data logger from the interface cable and place it in the environment to measure.

Note: The device will stop recording data when the end of memory is reached or the device is stopped. At this point the device cannot be restarted until it has been re-armed by the computer.

Downloading data from a data logger

- Connect the data logger to the interface cable.
- Click the **Device Menu** then **Read Device Data**. This will offload all recorded data onto the PC.

Device Maintenance

Battery Replacement

Materials:

Small Phillips Head Screwdriver

LTC-7PN Battery

- Puncture the center of the back label with the screw driver and unscrew the enclosure.
- Remove the battery by pulling it perpendicular to the board.
- Insert the new battery into the terminals and verify it is secure.
- Screw the enclosure back together securely.

Recalibration

The RHTemp101A standard calibration is one point at 25°C and two points at 25%RH and 75%RH.