

QUICK SHEET

LASCAR EasyLog-USB-2 RH/Temp Logger

LOCATION of EQUIPMENT:

Hardware: See lab attendant

Software: *EasyLog USB/EasyLogGraph* - free download and available on lab computers; PC only

INSTRUCTIONS FOR USE:

1. Insert the data logger into a USB port on the computer and open the *EasyLog USB* application
2. When the application opens, select the “Set up and start the USB data logger” option
 - a. On the following screens, follow the instructions/prompts, or follow the steps below:
 - i. On the first screen:
 1. In the first box, give the data logger a name to identify/differentiate it
 2. Select the corresponding bubble of the units (°C or °F) to be measured
 3. Select the frequency of measurements desired from the dropdown menu
 - a. Each logging frequency is associated with a period of time indicating the logging duration until the device’s memory is full
 4. Once done, click the “Next” button in the bottom right corner to proceed
 - ii. On the next screen:
 1. In the top boxes, select whether or not to turn the data logger’s alarm on for high and low temperature values
 - a. If an alarm is desired, set the high alarm and low alarm temperature values in the dropdown menus
 - b. Check the boxes depending on the desirability of the alarms staying on despite a change of temperature to accepted values
 2. Once done, click the “Next” button in the bottom right corner to proceed
 - iii. On the next screen:
 1. Set/unset the alarms for high and low relative humidity values by following the above instructions for the previous screen
 2. Once done, click the “Next” button in the bottom right corner to proceed
 - iv. On the next screen:
 1. Select the “Immediate start” bubble to set the data logger to begin taking measurements immediately or select the other bubble to delay the start of the measurements
 - a. If delaying the start, the dropdown menus will become unlocked in order to set the specific date and time desired to delay until
 2. Once done, click the “Finish” button in the bottom right corner
 - v. A screen will appear stating that the data logger has been configured successfully and prompting the removal of the device from the USB port
 - vi. Press the “Ok” button and remove the logger from the computer
3. The logger is now taking measurements
4. When done logging, repeat Step 1
5. When the application opens, select the “Stop the USB data logger and download data” option
 - a. A prompt will appear, click the “Yes” button
 - b. On the following screen, press the “Ok” button to save the logged data to the computer

QUICK SHEET

- c. A standard save dialog box will open
 - i. Name the file and save it to the desired location on the computer
6. Once the data is downloaded to the computer from the device and saved, the *EasyLogGraph* application will automatically open
 - a. Use the “Data View” and “Graph View” buttons to view the data graphed or in a table
 - b. Use the various other buttons to navigate the data and view the statistics
 - c. If desired to import data into an Excel sheet (or a similar application) select the “Export” button and choose the “CSV (data)” option in the dropdown menu and save the file
7. The device is now stopped from logging and can be removed from the computer and the applications can be closed

HELPFUL TIPS:

1. While the data logger is taking measurements it is best to put it on a surface at waist-shoulder height and away from objects which might influence its readings (i.e. a computer putting out heat, a cold drink, etc.)
2. When the measurement of the temperature/relative humidity of a particular place/space is desired, it is best to leave the logger in the location for approximately 30 minutes so it can properly adjust its readings from any previously warmer/cooler place it was in (i.e. a backpack, a pocket, etc.)

OVERVIEW:

The Lascar EasyLog-USB-2 RH/Temp Logger is a standalone data logger capable of measuring and storing over 16,000 temperature and humidity readings ranging from -31 to 176°F (-35 to 80°C) and 0 to 100%RH at an accuracy of 1°F (0.5°C) and 0.5%RH. The logger can easily be setup to record measurements and the recorded data downloaded by inserting the data logger into a computer's USB port and using the free *EasyLogUSB* software. Data, including calculated dew point, can then be graphed, printed and exported from the *EasyLogGraph* application to other applications (i.e. Excel) for further analysis.

SUGGESTED APPLICATIONS:

- Long-term/short-term temperature/relative humidity logging

RELEVANT TOPICS:

Post-Occupancy Studies, Thermal Comfort Studies