

mini-GUIDE

USING PASCO WEATHER SENSOR WITH SPARKvue SOFTWARE TO PLOT TWO RELATED MEASURES (e.g. TEMPERATURE AND RELATIVE HUMIDITY)

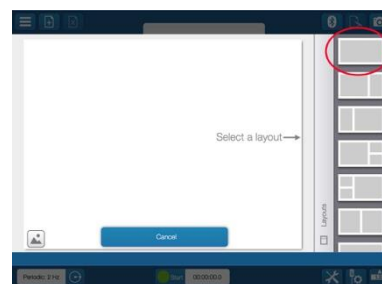
STEP 1:

Connect to Pasco Weather Sensor:

See Mini-Guide called “Set Up the Pasco Weather Sensor” to show you how to connect SPARKvue software to the Pasco Weather Sensor by Bluetooth. Click ‘Build New Experiment’ as instructed.

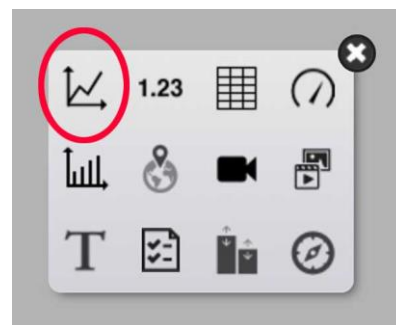
STEP 2:

Select the **single window** display type.



STEP 3:

Select the **line graph** to display your data.



STEP 4:

Click ‘Select Measure’ for Y-axis and choose ‘**Temperature**’.

Click ‘Select Measure’ for X-axis and choose ‘**Relative Humidity**’.

You can click ‘**graph options**’ to close the tool bar if it covers up the x-axis measure choice.

Choose how often you want to record a measure (**2 hz = 2 times per second**)¹

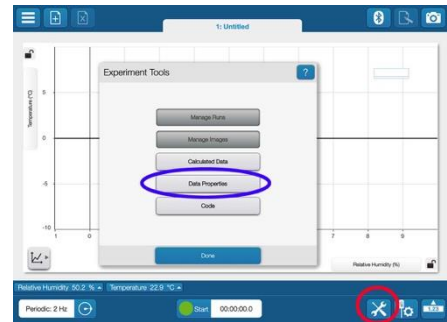


¹ All content comes from <https://www.pasco.com/products/sensors/environmental/ps-3209>
<https://www.pasco.com/products/software/sparkvue>

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STEP 5:

Click the **'tools'** button and **'data properties'** to select whether temperature is measured according to Celsius (C), Fahrenheit (F) or Kelvin (K) scales.



STEP 6:

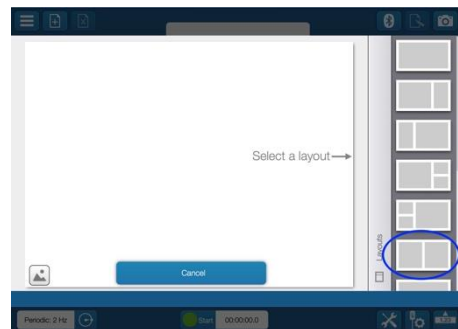
Click **'Start'** to begin recording data. The same button becomes the **Stop** button to let you stop data collecting.

[Because you are plotting two separate data streams against each other the graph will behave differently to a graph that plots a single measure against time].



EXTRA STEP 7:

An alternative course to take is to measure each of the two data streams separately against time. Begin your experiment by choosing the **2-window layout**.



EXTRA STEP 8

Choose line graph for each window. The x-axis for each will default to **time**. Choose **'temperature'** for the y-axis on the first graph, and **'relative humidity'** for the y-axis on the second graph.

When you click **'Start'** you will see something like this:



[see the additional Mini-Guide that shows you how to display both of these measures on the same graph, against time]