

GrovePi Lesson: Kick it Up a Temp-Humidity Sensor

Vocabulary words used in this lesson...

- **Temperature**- the degree or intensity of heat present in a substance or object, especially as expressed according to a comparative scale and shown by a thermometer or perceived by touch.
- **Relative humidity** - the amount of water vapor present in air expressed as a percentage of the amount needed for saturation at the same temperature.
- **Thermostat** - a device that automatically regulates temperature, or that activates a device when the temperature reaches a certain point.
- **Hygrometer** - an instrument for measuring the humidity of the air or a gas.
- **Thermistor** - an electrical resistor whose resistance is greatly reduced by heating, used for measurement and control.
- **Celsius** - of or denoting a scale of temperature in which water freezes at 0° and boils at 100° under standard conditions.
- **Fahrenheit** - of or denoting a scale of temperature on which water freezes at 32° and boils at 212° under standard conditions.
- **DC Power** – electricity created with direct current – usually battery powered
- **Input** - something (such as power or energy) that is put into a machine or system or information that is put into a computer
- **Output** - something (such as power, energy, or information) that is produced by a machine or system or the place at which information, power, etc., comes out of a machine or system
- **Determine** - to be the cause of or reason for (something)
- **Interface** - an area or system through which one machine is connected to another machine
- **Engineering Design Process** - a series of steps that engineering teams use to guide them as they solve problems. The design process is cyclical, meaning that engineers repeat the steps as many times as needed, making improvements along the way.
- **Algorithm** - a sequence of instructions that can be processed by a computer.
- **Concatenate** – to join two things together, such as two strings in a program.

- **Analog** - of or relating to a device or process in which data is represented by physical quantities that change continuously
- **Digital** - of or relating to information that is stored in the form of the numbers 0 and 1
- **Port** - a hardware interface by which a computer is connected to another device
- **Broadcast** - to send out (signals, programs, etc.) by radio or television or other device

(source: merriam-webster.com/dictionary)