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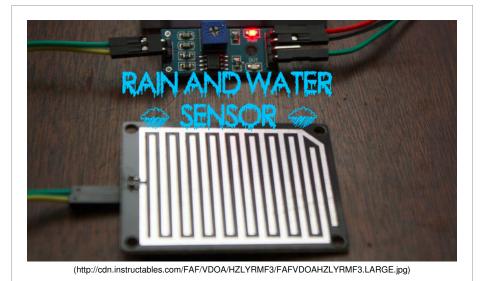
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Quick and simple start guide for using and exploring the Rain Sensor module

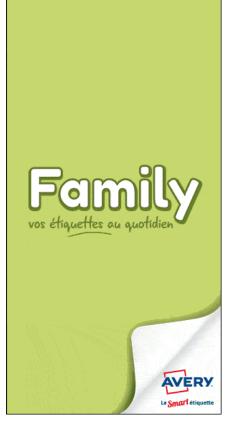
I figured since I recently wrote up an Instructable about flame sensors (http://www.instructables.com/id/Arduino-Modules-Flame-Sensor/), a type of water sensor might just be a good equalizer.

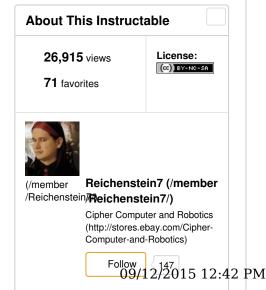
sometimes called a "Raindrops Sensor Module" with an Arduino.

Materials needed:

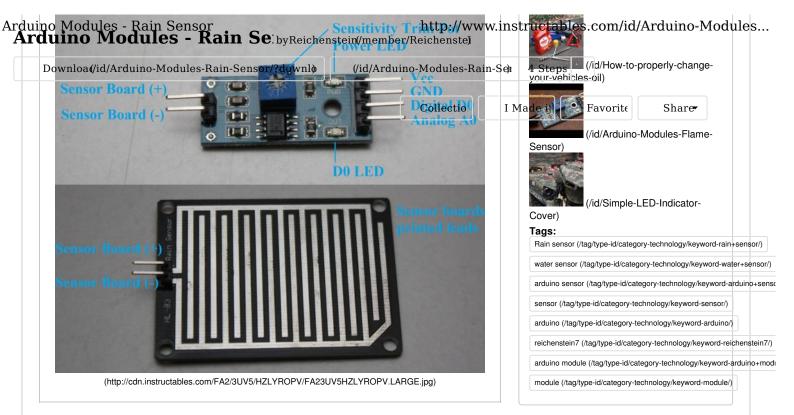
- Rain Sensor (model with an analog out) (http://www.dx.com/p/raindrops-sensor-module-blue-black-199859#.VAaJLmOrjfV)
- 3x Male to Female jumper wires
- 2x Female to Female jumper wires
- · An Arduino, any flavor
- Source of water

Step 1: Getting to know your Rain Sensor:





More by Reichenstein7



Usage:

Rain sensors are used in the detection of water beyond what a humidity sensor can detect.

How it works:

The rain sensor detects water that completes the circuits on its sensor boards' printed leads. The sensor board acts as a variable resistor that will change from 100k ohms when wet to 2M ohms when dry. In short, the wetter the board the more current that will be conducted.

Pins:

A0..... Analog output

D0...... Digital output

GND..... Ground

VCC..... Positive voltage (input: 5v for analog 3.3v for Digital.)

Loop Pins:

+ Sensor board hookup A

- Sensor board hookup B

Dimensions:

2.17 in x 1.57 in x 0.31 in (5.5 cm x 4.0 cm x 0.8 cm)

Weight:

0.28 oz (8 g)

Related



Arduino Modules - Flame Sensor (/id/Arduino-Modules-Flame-Sensor/) by Reichenstein7 (/member



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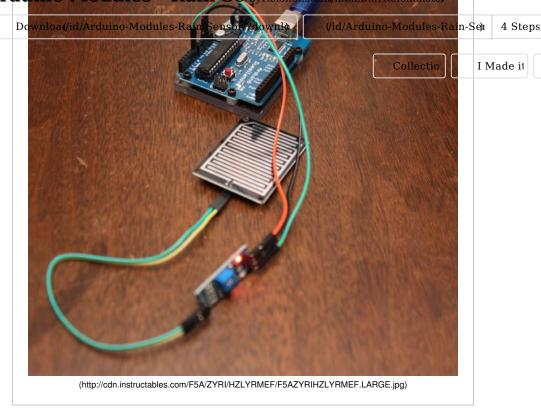
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Step 2: Testing and Troubleshooting:



Testing:

To test the Rain Sensor and ensure that it is working correctly connect the VCC to a 5v power source and GND. Try placing a few droplets of water on the Rain sensor detection board and the D0-LED should light up.

Troubleshooting:

If the D0-LED does not light up check the following:

- Is the module hooked up properly?
- Sometimes salinity is an issue with these units, this one worked fine with filtered, bottled water, but in some instances you may have to add a bit of salt to increase the waters conduction.
- This might be a bit more tricky, but for some reason two different models by two different manufacturers have had defects in their soldering skills. Make sure all of the little SMD's and connectors have been soldered on properly.
 IE - are solder joints actually soldered?
- If none of the previous makes the D0-LED light up, your sensor may be defective.

Step 3: Wiring to an Arduino:

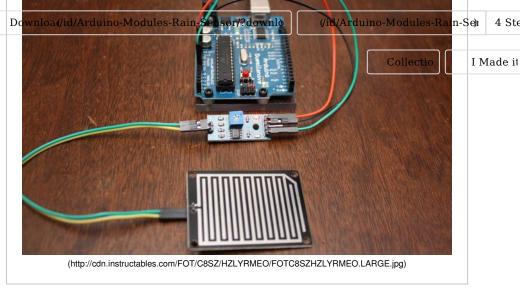
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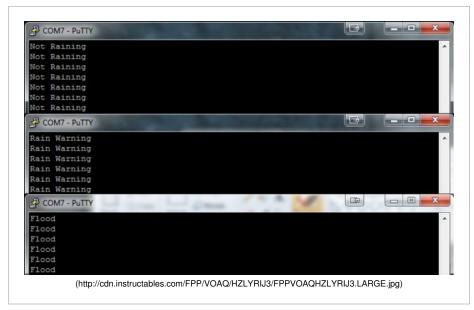
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To wire the Rain Sensor to the Arduino for analog, simply connect the following

Rain Sensor Arduino VCC...... 5v GND...... GND A0..... Analog in 0 Rain Sensor Sensor Board +..... + -....- -

Step 4: Arduino Sketch Example:



The following code maps and reads the analog values given by the Rain Sensor 4 of 7 (0-1024). The Rain Sensor will have the following reaction with this code:

• If the Sensor Board is completely soaked; "case 0" will be activated and "

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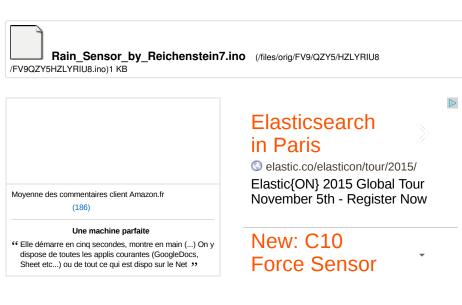
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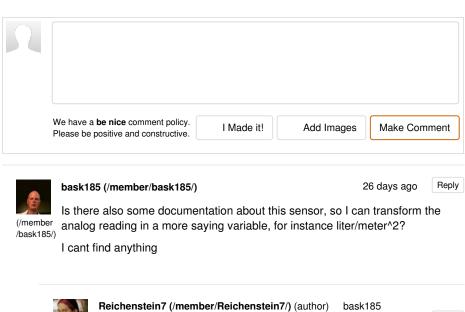
Arduino Monde will passent to the serial monitor. Arduino el to duino el to duino el to duino est le transportant de la contraction de la http://www.instructables.com/id/Arduino-Modules... Rain Warning " will be sent to the serial monitor. Downloade Sensul Board of Rains & Wilder and Sensul Power of the Control of the C 4 Steps be sent to the serial monitor.

- * The output in "case 2", "Not Raining" is just for this demonstration. When the used this code in production I omitted the output for this case and just had the alert for "Rain Warning" and "Flood".
- * To view the output, point a serial monitor such as Putty at your Arduino.
- * This code is constantly updating in order to provide a real time feedback of the Rain Sensor.

Code:

Attached due to formatting.





13 days ago This sensor is really more of just an on or off variable sent back to your controller when it gets /Reichenstein7/) smattered by water.

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