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|  | Soil Moisture Sensor Instructions |

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| --- | --- | --- | --- | --- | --- |
| Date: | 02/09/2025 | Version: | 1.0 | By: | Matt Little |

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| --- | --- |
|  | *Not suitable for under 12 years old.* |

# Parts included:

# Parts list:

|  |  |  |
| --- | --- | --- |
| **Item** | **Ref** | **Quantity** |
|  |  |  |
|  |  |  |

# Hardware

|  |  |  |
| --- | --- | --- |
| **Item** | **Ref** | **Quantity** |
| M2 Machine screws. 12mm long |  | 3 |
| M2 Nuts |  | 3 |

# Tools required:

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| --- | --- | --- |
|  |  |  |
|  | Long-nosed  Pliers |
| Soldering Iron | Posi-drive  Screwdriver |
| Solder |  |
| Side cutters |  |
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# Additional Items Required

* 1 x Micro-USB lead (for powering and for programming)
* 1 x 5V USB power supply (might be required for powering stand-alone unit)
* To update/change code: Computer with Arduino IDE and additional libraries installed. (see software section for more details)

# Instructions:

|  |  |  |
| --- | --- | --- |
| **Step: 1** | Solder diodes | |
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|  |  |  |
| --- | --- | --- |
| **Step: 2** | Solder capacitors | |
|  | |  |

|  |  |  |
| --- | --- | --- |
| **Step: 3** | Solder switch | |
|  | |  |

|  |  |  |
| --- | --- | --- |
| **Step: 4** | Solder fuse | |
|  | |  |

|  |  |  |
| --- | --- | --- |
| **Step: 15** | Finished build! | |
|  | |  |

# Software

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| --- |
| **Software Overview** |
| The unit has the following flow diagram of the various functions: |

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| **Upload software** |
| This is not needed for standard use of the unit.  This can be where the fun begins! You can alter the code and improve it.  This project has software stored on GITHUB software repository here:  **https://github.com/curiouselectric/mositureSensor**  Please follow the readme in this file for the most up to date instructions for uploading code using the Arduino IDE (or any other IDE of your choice).  This GITHUB contains all the design files as well as the software code. Move to the “FIRMWARE” folder for the software example. |

## Contact details:

This kit has been designed and produced by:

The Curious Electric Company

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We would like you to be happy with this kit. If you are not happy for any reason, then please contact us and we will help to sort it out.

Please email [**hello@curiouselectric.co.uk**](mailto:hello@curiouselectric.co.uk) with any questions or comments.

Please tweet us at **@curiouselectric**

If any parts are missing from your kit, then please email [**hello@curiouselectric.co.uk**](mailto:hello@curiouselectric.co.uk) with details, including when and where the kit was purchased.

More technical information can be found via [**www.curiouselectric.co.uk**](http://www.curiouselectric.co.uk/)

# Circuit Schematic:

# PCB Design:

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