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|  | Wind Sensor Instructions |

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| Date: | 22/10/21 | Version: | 1.0 | By: | Matt Little |

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# Parts included:

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|  |  |  | 5 x 2 way Screw Terminals | |  |  |  |
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|  |
|  |  |  | | PCB with SMD components | |  |  |

# Parts list:

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| **Item** | **Ref** | **Quantity** |
| 2 way screw terminals |  | 5 |
| PCB with all SMD components soldered |  | 1 |

# Tools required:

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

* USB to 6 way ‘FTDI’ style serial converter:
  + Search for “FT232RL USB to TTL MiniUSB Port FTDI Serial Adapter Module for Arduino 5V 3.3V” on eBay
  + Or this FTDI one: <https://ftdichip.com/products/ttl-232r-3v3/>
  + You can also use an Arduino as a USB to serial converter.
* To update/change code: Computer with Arduino IDE and additional libraries installed. (see software section for more details)

# Instructions:

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| **Step: 1** | Solder Screw Terminals | |
| There are 5 2 way screw terminals to solder.  Link two of them to make a 4 way connector and solder into the ‘serial’ connection.  Link three of them and solder into the WIND\_A connections.  That’s all the soldering done! | |  |

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| **Step: 2** | Wire up Anemometer | |
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| **Step: 3** | Wire up Wind Vane | |
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| **Step: 4** | PCB is finished! | |
| A cup of coffee and a bagel on a saucer  Description automatically generated with medium confidenceHave a nice cup of tea. | | That didn’t take long, did it? |

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| **Step: 5** | Connect to Arduino or USB-Serial Converter | |
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| **Step: 6** | Write your own code | |
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# 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, if you like.  This project has software stored on GITHUB software repository here:  [**https://github.com/curiouselectric/WindSensor**](https://github.com/curiouselectric/WindSensor)  Please follow the readme in this repository for the most up to date instructions. |

## 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: