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| Information Screen |
| The 4-Winds Information Screen |

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| Nate Kew  Revised: Feb-08-2020 |

# Document revisions:

0/ Original published .

# Acknowledgements:

Thanks to:

1. Random Nerd Tutorials for their introduction to programming the Nextion HMI: <https://randomnerdtutorials.com/nextion-display-with-arduino-getting-started/>

# Abstract:

The 4-Winds

# Observations:

Condensation

# Project Goals:

1. Create a controller that acts as a simple and effective thermostat/humidistat combination,
2. Provide a method for remote monitoring, and;
3. Determine if a small ceramic heater has the capacity required to work well with the controller.

# Solution:

Use

# Experiment:

The “4-Winds” uses:

1. An adafruit HUZZAH ESP8266 breakout board,
2. A DHT-22 temperature and humidity sensor,
3. A Power Switch Tail II,
4. A 5vdc 1-amp power supply,
5. A Pololu 3.3V Step-Up/Step-Down Voltage Regulator S7V8F3, and;
6. a 110vac 750watt/1500watt manually switched ceramic heater.

The power supply

# Observations:

Testing

# Conclusions:

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