

Portable Weather Station Documentation

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Introduction

A portable weather station offers portability, accurate data, and enhanced safety. It can be easily transported to different locations, providing precise and localized forecasts. This helps in decision-making for various activities and sectors. The station's portability enables monitoring of essential parameters, alerting users to potential weather hazards in advance. With measurements of temperature, humidity, thermal sensation, wind speed, wind direction, UV index, rain fall and then you can process the data and analyze it. In this documentation, you will find everything about this project.



Fig.: HSRW Portable Weather Station

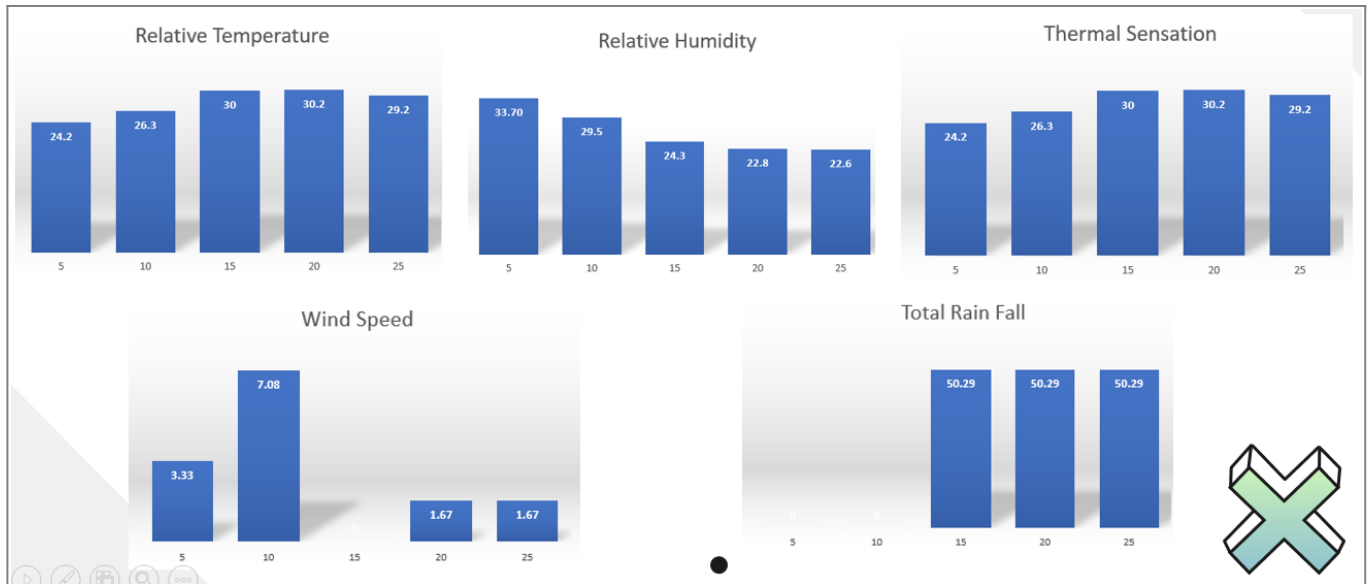


Fig.: Portable Weather Station Data Visualization

Weather Station Sensors

Measurement	Sensor	Measurement unit	Datasheet
Temperature	DHT22	°C	DHT22
Humidity	DHT22	RH	DHT22
Thermal sensation	DHT22	°C	DHT22
Wind Direction	Sparkfun Weather station kit (SEN-08942)	Cardinal Points	SEN-08942
Wind Speed	Sparkfun Weather station kit (SEN-08942)	m/s	SEN-08942
Rain Gauge	Sparkfun Weather station kit (SEN-08942)	mm	SEN-08942
UV index sensor	P1918 UV sensor	1-11	P1918 UV sensor

Electric diagram

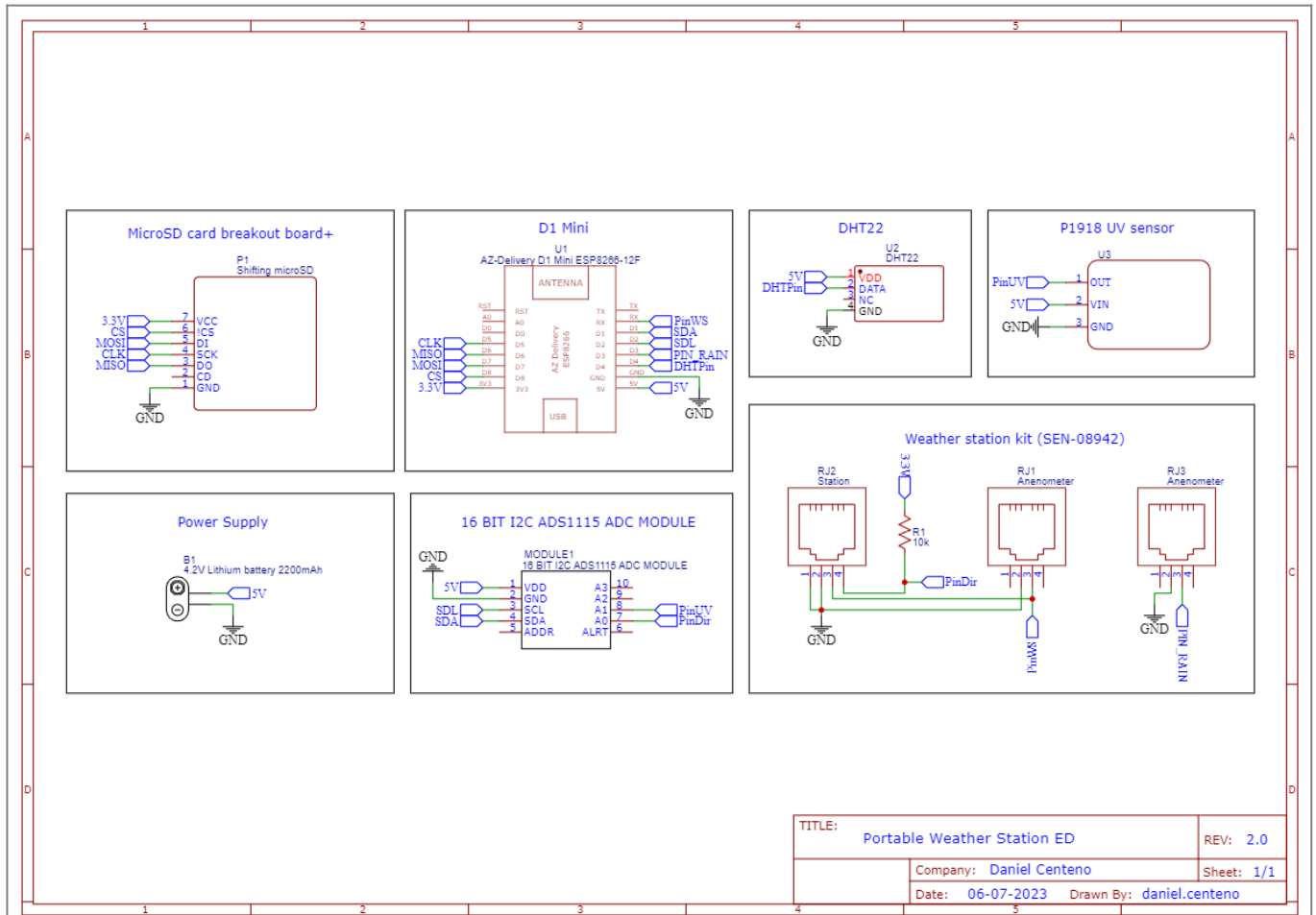


Fig.: HSRW Portable Weather Station Electric diagram, You can download the pdf diagram [Here](#)

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