

Weather Measuring System For Agricultural Activities

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ABSTRACT

Weather is hard to be predicted as they are unforeseeable, able to change all of a sudden. It could be sunny or windy in the morning, but in the afternoon, a thunderstorm could be looming over the skies. Knowing what the weather could be in advance is useful for humans. Therefore, research has been done on how to predict the weather as accurately as possible.

The aim of this project is to construct a prototype of weather measuring that can detect sunlight density, temperature of air, and rain volume. With this information, it is possible to measure the weather for the assistance for farmer, fisherman and agriculture related industry personnel. As for sunlight density, a LDR sensor is used to detect the presence of light. For rain volume circuit, water level sensor is used where each sensor is placed at different level. Lastly, for temperature of air, temperature sensor DS18B20 is used to detect the temperature by using a PIC 16F887 to program and display the result on a LCD. The overall design is met and proven by the results obtained in testing and troubleshooting.