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Automatic Dry Control System Using Microcontroller

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Voice R. Putung ; Sukandar Sawidin ; P.Y. Anthoinete Waroh All Authors

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Abstract:

The application of appropriate technology is a very important thing in modern life at this time especially in utilizing the sun as a heat source to do the drying process such as, drying of agricultural production, production of crackers, the production of salted fish and clothes drying in smaller scale. This research will focus on a tool that is able to respond to weather conditions in the vicinity of the level of light intensity and rainfall in the form of a prototype automatic open roof cover system that can help ease the drying process. This system consists of hardware (hardware) consisting of light sensor (Photo Diode), rain sensor, ATmega8535 microcontroller, servo motor, LCD (Liquid Crystal Display), series of relay drivers and limit switch. The software in this system uses the C language that is implemented on the microcontroller. The system will work based on the intensity of light that concerns the light sensor (Photo Diode) and water that is on the rain sensor, this input is used microcontroller to open and close the roof automatically. From the test results on the prototype drying control system is obtained when the weather is bright and rain sensor is not wet then the roof will open, when the light but the rain sensor in wet conditions then the roof will be closed and when the dark sensor rain is not wet then the roof will be closed. Open Roof View or Roof close is monitored via LCD.

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I. Introduction

The process of drying or drying is still done traditionally by drying the production of agricultural products such as coconut meat which is used as a copier material for the manufacture of crude coconut oil and other derivative products. [1, 2]

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