ABSTRACT

TEMPERATURE CONTROLLED BASED COOLER PAD USING ARDUINO

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The intention of this paper is to manipulate the rate of dc fan primarily based on room temperature the usage of Arduino Uno when the temperature is greater than a threshold price. The Arduino Uno constantly reads temperature from its surroundings and the temperature produced via the processer. The temperature sensor acts as a transducer and converts the sensed temperature to electric cost. The analog cost is carried out to one of the enter ADC pins. Hence conversion takes place internally the use of successive Approximation approach. For ADC conversion, internal registers have to be declared. That is compared with the brink cost by the controller which switches the fan if value is greater than threshold. As a result while temperature of surrounding will increase velocity of fan additionally will increase and whilst temperature decreases velocity of fan additionally decreases. The usage of this kind of cooler pads, the power consumed by means of the dc fan may be minimize.

KEY WORDS: Microcontroller, Pulse Width Modulation (PWM), Temperature Sensor, Liquid Crystal display

(lcd).

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