

Thesis Title : Temperature and Humidity Control in Timber
Drying Room

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ABSTRACT

This thesis presents a design construction of ON-OFF temperature Controller and Humidity in Timber Drying Room by using silicon diode as a temperature sensor. The purpose is to control the temperature of a Timber Drying Room within the temperature range of 0 to 100 C with a temperature fluctuation of not more than $\pm 5\%$. The analysis of the system includes the linear characteristic of temperature coefficient of silicon diode. A microprocessor is used for controlling. The results from experiments with the constructed controller show a good agreement with the analysis.