

## ABSTRACT

*Sieve shaker is a device used to separate solids with liquids using a layered filtration equipment as well as the value of the mesh strainer different. This equipment utilizes vibration and additional material that allows water to be separated can pass the filter. Vibration generated, in addition to surface material will also serve to direct the filtered material is not filtered, Sieve shakers are typically used in the pharmaceutical field in which the sieve drug in powder form. In this module set its time and 2 modes (high and low).*

*In this tool uses the ATmega8535 microcontroller system in which to control the rpm, set its time and mode. Besides setting mode and rpm will be displayed on the LCD display. At the time of the motor driver (IRF530N) active working then the timer will be counting down, so time is reached and the motor off.*

*In this module the system uses a microcontroller which later on used to control the motor. So making this module rpm has a high error rate 1.19% and low rate 1.16 % and high error rate of 0.40% and low error rate 0.26%*

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*Keywords: Speed Rpm, time, IRF530N and ATMEGA 8535.*