

## ABSTRACT

*Pneumatic stirrer is a laboratory instrument that is often used to mix or homogenize the solution or tablet flammable, keeping stirrer types and functions have many different types and with different models different. Mixing in the laboratory preparation can be defined as the process of combining two or more components so that each separate particles can be attached to particles of other components (Bhatt and Agrawal,2007).*

*In the laboratory, lab equipment are pneumatic stirrer are only equipped with manually setting the RPM selection (UP / DOWN), so that the maximum use is still not able to, because the election is not equipped with RPM speed settings secaraara fixed and not equipped with the timing of the mixing process. Based on the above issues, the authors wanted to develop the tools to make the selection rpm speed settings and timer-based microcontroller ATmega8535 Based on the measurements have to be got value comparison between measurement and comparison tool which is not much different, and after going through testing and data collection tools are generally obtained error below 5%, it can be concluded that this tool can be used with either.*

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**Keywords:***Solution, timer, speed (RPM)*