DESIGN OF TEMPERATURE CONTROL SYSTEM ON DRYER ROOM PAPER RCYCLED BASED MIKROKONTROLER ATMega 8535

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ABSTRACT

In the paper recycling machines there are many obstacles, one of which is the process of drying the pulp (pulp). When the pulp (pulp) did not undergo the process of drying the paper will not be back. It is therefore necessary equipment to dry the pulp (pulp) that is dryer room paper rcycled based mikrokontroler ATMega 8535 to keep the temperature room according to the desired dryer.. In the test results with the data sets of different point of 100 °C, 110 °C, 120 °C obtained the fastest time at 42 minutes to dry the pulp (pulp) paper on set point to 120 °C with ts for 10 minutes, MP for +2 and the average steady-state error of 2 °C. On the test results can be seen that the higher set point faster drying pulp (pulp) to paper. For accuration calculating, temperature control system in dryer room obtained have accuration of 98%.

Key Word : Temperature control system, LM35, Microcontroller ATMega 8535