Design of Close Loop Control of Acid Base Titration in the neutralization of Surface Water
ATMEGA 8535-based Microcontroller

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ABSTRACT
This final project discusses about the design up close loop control of acid-base titration at the level of surface water pollution are based ATmega 8535 kelayakakan parameters used to control water levels in surface water pH. In a system designed pH sensor electrodes using granite, atmega8535L equipped microcontroller. Workings of this design are two solutions are diluted with pH levels seventh set point. To use the HCl acid solution while the solution of NaOH. Where each solution is connected to the pipe contained ballvalve. Ballvalve itself is controlled by a motor that has been connected to the relay drivers. From the relay drivers controlled by the microcontroller ATmega 8535. Results from the measurement sensor will be displayed through the LCD and the position of ball valve. Designed control system as a whole has the highest error of 8.57%. whereas for the highest accuracy value of 97.92% and the highest precision value of 97.87%.

Keyword : Control, pH value,
Mikrokontroller Atmega 8535
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