DESIGN SYSTEM FOR REMOTE MONITORING WATER QUALITY IN INTENSIVE SHRIMP POND

ABSTRACT

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In this final experiment created a tool that can monitor the amount of temperature and pH that occur in the water for any time. Data on temperature and pH that can be displayed on a computer using software Code Vision AVR. Temperature sensors used to detect the liquid temperature is 35 and LM module module is used to detect pH or acidity of the liquid is alkaline pH sensor using IC LM 741. Both of these sensors send a signal conditioning. Data from the sensors will be received by the microcontroller then processed and sent to a computer with a serial RS 232 rangakaian. On the computer will display a measure of temperature and pH monitoring with the help of software Code Vision AVR. Results achieved were temperature and pH data are displayed on a computer using a display version of the Code Vision AVR using the limit of measuring a temperature of 20 ° -60 ° C and a pH of 4-10. After going through the process of making and testing the results obtained that the performance of this tool has been in accordance with the purpose of making but still has room for improvement in the future.

Key words: Monitoring, Temperature, Ph, Code Vision AVR
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