AUTOMATION SYSTEM PROVISION AND DISTRIBUTION OF WATER WUDLU USING MIKROKONTROLER

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Abstract
Most tap water wudlu in mosque, the water output is not constant when the tap is opened and the other for the provision of manually will making. Therefore needed a tool that can divide the water so that the output provides a constant and on the provision of water for wudlu automatically.

At the end of this assignment covered the planning system and the provision and distribution of water wudlu. This system consists of a series of power supply, microcontroller ATmega32, PIR sensors, level detector and relay. Power supply provides the voltage required by each series, mikrokontroler ATmega32 as the central setting for the series of sensor PIR (as input), level detector (as input) and relay, sensor PIR detection movement as the human body, as the level detector detection height level of the water that will determine the living dead pump motor. With the debit on the provision of water can be controlled and the water level display on the LCD. As an automatic relay switch and automatically turn off the pump motor and solenoid valve.

From the results of the testing system as a whole can be known that the solenoid valve capable output water with a constant level if the detector is located on the water level between 60% to 90%, the minimum time needed to reach the 1 liter of water is 16 seconds and maximum time that the need for reaches 1 liter of water is 14 seconds. The pump motor is on if the level detector is located on the 80% level of the water, pump motor will turn off if the level detector at 62%.

Keywords: Mikrokontroler, sensor PIR, water wudlu.
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