ABSTRACT

Everyone would need water inportant for every one. Where the water is in

flow from a device called valve. Valve is a tool that regulates and directs or controls

the flow of liquid (liquid). In the implementation of this tool, the authors develop

innovations in the Design of Tank Control Systems on Well Water Filtration in

Sukabirus using Microcontroller and Android. This system aims to help users, can

save water wastage and minimize work.

This system initially perform the filtering process from tank 1 to tank 2.

After the screening process is complete, this system has input connected to the

android phone via bluetooth module aims to control the tap control with a long

distance processed by the microcontroller. The microcontroller used as the control

brain is Arduino MEGA 2560. The use of Arduino MEGA 2560, ultrasonic sensor,

water flow sensor, water pump and servo motor aims to control the process of

controlling there is tap water automatically. Users only select the volume and time

required for charging water into controlled containers through an android app.

When the process of filling the container has been met, the information will appear

on the android phone in the form of a text.

From the results of this final task testing, the design of the faucet control

connected to the phone andorid not far to the expected. When the set point 5000 ml

in 2 minutes, the test results obtained are 5030 ml in 1.59 minutes. Difference of

error at volume and time only 30 ml and 1 second.

Keywords: Water Flow Sensor, Arduino MEGA 2560, Module Bluetooth