ABSTRACT

Sanitation of cage must be done regularly to avoid the poultry from harmful diseases. By considering the simplicity and effectiveness for farmer, automatization in sanitizing the cage is indispensable. Water utilization in sanitizing process can make the cage humid and unsightly. Based on these problems, a system of automatization cage sanitizing is made using an ash dispenser. The dispenser will remove the ash inside it to the conveyor cover instead of water. The created system consists of ash equalizing control (integration between ash dispenser and conveyor), ash volume and air conditions control in the cage. The system works with a scheduling system using the default time or user can input it through the keypad. Based on the test results, the system can inform about all the control processes for ash equalizing, ash volume, and air conditions in cage. It will be displayed on the LCD and also in the color output of the LED.

Keywords: Smart Cage, Auto Sanitizer Feature, Ash Dispenser, Arduino ATMega2560