

ABSTRACT

Many farmers of laying hens still use manual method in feeding. This manual method causes feeding to be less effective and efficient. The feeding of laying hens must be scheduled and should not be forgotten in one time feeding schedule. The number of workers in the industrial sector, especially in chicken farms, are still lacking. The number of workers is still lacking due to farms that cannot be left for a long time.

In this research, automatic laying hens using conveyor are run based on real time clock. In this study a conveyor is designed that will run twice a day. The conveyor actuator in this device uses a single phase AC motor. LED is used in notification of feed in feed tubes using limit switch sensors. In testing, this system can work well, it is shown that the system can feed laying hens in accordance with the schedule.

The use of conveyors in the feeding system of laying hens is very suitable because it saves the costs so it does not need a feed container for chickens. The real time clock DS1302 is very suitable for the feeding systems of laying hens. The time in the DS1302 real-time clock is very accurate in the calculation, so that it matches the chicken feed schedule very well. Farm owners are very satisfied with the tools that have been made and applied on their farms because farmers can save more energy and costs.

Keywords : *Real Time Clock (RTC), Conveyor*