

Abstract

Breeding is one of business activities that is carried out by many people in Indonesia, including raising rabbits. However, raising rabbits has several common problems such as feeding. During the day the rabbits will reduce their feed consumption due to high ambient temperature and digestive processes, while at night the rabbits will increase their feed consumption. Automatic feeder equipment with weight control can be one way to facilitate farmers to feed according to the needs of rabbits. Weight control in animal feed aims to control the weight of feed that is removed from the container in order to minimize expenditure on feeding. The control technique that is implemented in automatic weight control devices uses the PID control method (Proportional, Integral, and Derivative) with a close loop system that utilizes a load cell sensor as feedback from the control process. The output generated from the PID control is the delay time needed by the servo motor to open the valve with an accuracy generated from this system of 83.551%.

Keywords: weight of feed, load cell, PID Controller