



UNIVERSITI TEKNOLOGI MARA

FINAL REPORT :
AUTOMATIC LIVE FEEDER FOR AROWANA

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ABSTRACT

The PLC is designed to send output for the automatic live feeder for arowana. PLC will make the owner of the arowana become easier to feeding the fish. In PLC, users can easily set the counter, the timer and more in the project. The aim of this project is want to make the user easily to feeding their arowana besides can give more health to the arowana. This project used counter to count the feeder that has been set by the user. Counter will count when the door is open and will close when the counter reach to the limit which has been set. Timer will always on when push button is on.

CHAPTER 1

INTRODUCTION

1.1 Background of Study

The name of the project is 'automatic live feeder for arowana'. In this project, it will limit the food or feeder that the user give to the arowana. If the arowana over fed, it might get kill. It also can harm the health of the fish. So, this idea will limited the quantity of the feeder.

This project supply is 240V to the input of the PLC. The output of the PLC will be supply a DC battery with 12V supply. It will connect to voltage regulator to convert a 12V DC supply to 5V DC. PLC was setup up by using programming console. This programme using mnemonic code as a language in the PLC. The program will start with the user set up manually the time to feed the fish. When the time start, door will open. Two types of relay will be used to control the door(open and close). After the door open, infrared sensor will start counting and disturbing fan will also operate. When the counting reach the limit, the door will start closing and LED will light up.

1.2 Problem Statement

Arowana is type of fish that have a lot of lovers. It is carnivore type fish in animal world. This fish have to eat live food like small fish. Sometimes the owner will gave their arowana cricket, centipede, small frog, etc. This fish lovers have to feed their fish twice weekly with certain amount of fish or feeder. Sometimes they cannot feed their fish because of work and lack of time. To make the fish or arowana healthier, they have to limit the food or they call it as "diet". This project will make the fish automatically feed based on their diet.