ABSTRACT

Manufacturing Automation Temperature Setting, Turbidity, And Feeding For The Safeguarding Of Ornamental Fish Of Aquarium Microcontroller Based

by

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Nowadays, employing the control panel system as one of the great usefulness of the supporting tools. Without using control panel system then it will be difficult technological progress takes place. This test is intended to study experimentally for relationship between automation systems for the fishing industry, the essentials is the safeguarding of fish ponds.

Automation is automatically operation controls of process and system equipment with mechanical or electronic can replace humans in monitoring and making decisions. Aim of automation is providing ease, improve work effectiveness and improve the safety assurance system for operator, first procedure performed research is make loop control system, as for manufacture includes temperature loop, food loop, water turbidity loop.

Data obtained was temperature and turbidity levels, temperature levels in this research is 28°C and turbidity 4.70V. The microcontroller pin used is PINBO,PIND1 and output PIND0 and PIND1. Assembly tool includes five series are: supply circuit, sensor circuit, comparator circuit, microcontroller, and actuator.

Keyword: microcontroller, Automation, temperature sensor, turbidity sensor