ABSTRACT

Aquarium sea water is used to keep the fish that live in sea water. One of the problems that often happens is salinity. High-low salinity effect on the life of the fish itself, because it can lead to collapse of fish in the aquarium. Concentration and the high salinity affect the appetite of fish, which then can lead to stress so that the fish will experience death.

In the End this project will be made on the design and realization of the salinity in the sea water aquarium. This uses the principle that the sea water has high salinity and the higher concentration with the color on the sea-water aquarium. Where is the sensor that is used as metal keeping abreast of the changes work as detector is resistance. Results from the sensor output will be the input for ADC. While for the calculation used microcontroller ATMega8535 and the result is displayed on the LCD according to the condition. When salinity is high in the LCD will then automatically add your own fresh water, while if a low salinity will add saline solution so that the salinity in the aquarium can be normal again. With the end of the project is realized, it is expected to reduce the problems keeping fish in sea water.

Keywords: salinity, microcontroller ATMega8535, LCD