

ABSTRACT

Indonesia is a country that is rich in marine life, it is very broadcast if we as Indonesians cannot care for and enjoy it, with the wealth of marine life that Indonesia has, it can be used as a hobby, namely by making a sea water aquarium.

In making and applying seawater so that our marine biota can develop properly, there are a number of things that must be taken care of in seawater, namely air temperature, salt content, etc., a microcontroller-based device is designed that can monitor salt levels, stabilize the aquarium water level by using fuzzy logic methods and temperature control..

By setting the temperature and salt content in seawater it is expected that the salt content and temperature values contained in the marine air environment are in accordance with the specified parameters, namely for temperatures in the numbers 25 ° C-28 ° C.

In the completed research, it was found that the TDS level in the seawater aquarium will continue to decrease along with the water that evaporates, the evaporation of the aquarium water is caused by several things, one of which is because the temperature around the aquarium is warmer, thus accelerating the water in the aquarium to evaporate and the TDS level. also reduced.

Keywords: Seawater aquarium, Fuzzy logic, salinity