

ABSTRACT

Water is a primary requirement for human beings. But now a days a lot of water has been polluted by dangerous wastes so that it can damage the body. Water is the source of life, not only for humans, other living things also needed of water. Clean water is one type of good resources and utilized by humans for consumption or to doing daily activities. Turbidity is determined by a value called by a value called the Nephelometer Turbidity units (NTU). The higher the value of NTU, then the water will become more turbid and very influential to the quality of water.

With the development of technology is now a lot of tools that can be used to measure the turbidity of the water. Therefore, from this research utilizes optic wireless sensor to measure as the turbidity of water refers to the SKA. This water turbidity sensor is made of several light sensor which can detects the turbidity of the water, such as potodioda, laser 650nm. This sensor can release the water conditions displayed in the LCD16x2.

From the results of experiments conducted against censorship is proving that the measuring instrument is good function. This tool can distinguish water clear and turbid waters, where clear water for voltage is 5v or 0, 46NTU.

Keywords: *optical wireless*, laser 650nm, turbidimeter, *turbidity*