

WATER FILTER HEALTH MONITORING SYSTEM

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ABSTRACT

A water filter is a tool that functions to filter dirt in water from objects that are carried by the water flow, so that the water produced through the water filter becomes clearer. In this research, a water health monitoring system was created by measuring the level of turbidity at the filter input and output. If the filter capacity decreases, it is necessary to clean the filter or replace the filter media. The pH sensor is used to measure the acidity of water, the waterflow sensor is used to measure water discharge, and the turbidity sensor is used to measure the level of water turbidity. The results of this research were that the pH sensor reading accuracy level was 99.55%, water flow was 73.6%, and turbidity was successful in displaying the NTU value of water before and after the filter. Blynk IOT performed well in displaying the sensor reading results according to the program.

Keywords: *Water filter, waterflow, turbidity, IOT*