TIDE DETECTION DEVICE
BASED ON INTERNET OF THINGS (IoT)

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ABSTRACT

Indonesia is one of the countries with a tropical climate with high rainfall and strong winds, resulting in frequent tides in areas adjacent to sea water. Technology and information quickly have the potential for alertness in handling the impact of disasters. In this research it is necessary to know how to make Arduino microcontroller coding. From several problems, it is necessary to know that the review carried out is as follows: Literature study, design, prototype making, tool testing. The input voltage on the ESP8266 MCU Node is 5 V from the Power supply which will be reduced by AMS1117 to 3.3 V. From the test results of the tide detection device, the device will send data to the Telegram application at an average water level of 44.5 cm and 59.5 cm. With testing (%) success at water levels of 0 cm, 32 cm, 45 cm, 60 cm, as many as 40 times the test results obtained that the tool can work properly 100%.

Keywords: Tide detector, ESP8266 MCU Node, water level switch