

Abstract

Every year motorists will continue to grow. Motorcyclists are still not aware of safety on themselves, especially by using a helmet. Helmets for motorbike riders are very important, especially to keep the head of a motorbike user from impact when falling from a motorcycle. Helmets that exist today only provide benefits for safety and helmets, there is no technology connected to the motorbike. On the motor there is also a fuel meter, which serves to read the levels of fuel oil on a motorbike. Fuelmeters are connected to buoys that are in the fuel tank. The buoy serves to detect the remaining fuel oil in the tank. In this design a combination of helmets and fuel oil detectors is carried out in the tank. When the fuel oil on the tank will run out, the helmet will produce output in the form of sound notification of the remaining fuel oil in the tank. In the oil fuel tank there are buoys to measure fuel levels, measurements made in this study using a microcontroller that is connected to a buoy. The microcontroller reads the current in the buoy, where when the fuel is full the voltage will be above 7 volts, when the half voltage level is between 5 volts - 7 volts and when it is almost gone or close to the voltage below 5 volts. When the fuel is half and runs out, the microcontroller in the tank will send a signal to the helmet to notify the level of available fuel. Helmets will receive signals from tank microcontrollers and helmets will provide output in the form of sound.

Keyword: Fuelmeter, Output, voltase, volt, mikrokontroller