

ABSTRACT

Leakage of LPG gas cylinders is one of the causes of fires that often occur in Indonesia, especially in the kitchen part of the house. this is due to a leak in the gas cylinder or regulator that is not properly installed. With these conditions the solution is to create a monitoring method because the presence of a detection system in the kitchen can make it easier for the public to monitor leaking gas. The system that is being built consists of an MQ6 gas sensor and a temperature sensor which functions to detect gas leaks in the room and uses the Arduino Uno microcontroller module. In this system the method used is fuzzy logic because the logic is fuzzy or contains elements of imprecise, noise and uncertainty which is right for this system.

Keywords: Leakage, LPG, Arduino Uno, Fuzzy Logic, MQ6 Sensor, Temperature Sensor