ABSTRACT

The prototype of a fire detection system for people with disabilities who are deaf automatically uses the Arduino Uno R3 temperature sensor and the fire functions as the main fire safety that works automatically. The purpose of making a fire detector is to build a fire detection device automatically using temperature sensors and fire sensors for people with hearing impairments using Arduino Uno R3.

Overall, this system uses an Arduino R3 microcontroller which has been programmed into the C programming language. It also uses an ICLM35D temperature sensor to detect the temperature level and a Light Dependent Resistor (LDR) as a sensor that can detect fires through fire light. And will be implemented in Majalengka Special School, which is expected to minimize fire disasters.

The test results show that the temperature sensor and light sensor have successfully detected changes in temperature and the presence of light from the fire. The test results on the LCD show the message has detected a change in temperature and the presence of light from the fire.

Keyword : Arduino Uno R3, temperature and fire sensor