

## **ABSTRACT**

Access Point is a WiFi device Telecommunications that its existence is important because it is used as the source signal without a cable network. See the usefulness of the Access Point, the condition of the adapter to the Access Point to note saw its function as a voltage source. Voltage at the access point comes on 220 V power adapter, therefore the access point is vulnerable to electric shock is caused by electrical induction or electric drop suddenly.

This research was conducted by creating a protective system of the Access Point device and the adapter access points using a microcontroller as the main controller and can determine the condition of the flow of electrical current flowing to the access point. The system uses the current sensor, microcontroller, relays. Current sensor used to detect the current flowing and stabilize the voltage is too high. Microcontroller used to process data sent by the current sensor. In this system the relay serves to cut off the electricity if there is excess power is used and reconnected when it smulai stable. Real Time Clock (RTC) as an access point according to his timing a predetermined time.

Access Point protection system that will be designed to regulate life and death of the Access Point in time is determined by the RTC and if the current is detected not fall into the category of flows that have been determined, then the system can work directly off the Access Point automatically.

Key words: Microcontroller, Current Sensors, relay, RTC