

## **ABSTRACT**

KWH meter is a device that use to record electrical power consumption periodically. Currently, that device is used by PLN (State's electrical company) to record the subscribers' electrical power in a month.

Currently, analog KWH meters are the most applied, this analog system can record the power consumption correctly, but less efficient when applied in the smaller environments such as rental houses, when the owner wants to know how much power that consumed by each room and want to limit the power consumption to avoid over using of the electrical power.

This project realize the digital KWH meter controlled by computer to record the electrical power consumption and its limitation for each rented room. This KWH meter contains of phase detector circuit, current detector and voltage detector.