

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 applicated, this analog system can record the power consumption correctly, but less efficient when applicated 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 final task has realized the digital KWH meter controlled by microcontroller to record the electrical power consumption and its limitation for each rented room. This KWH meter contains of current sense detector, reactifier and analog to digital converter.