ABSTRACT

At this time, KWH meter recording system is still carried out by using manpower in the door to door. At the time of the recording is done, officer PLN will be required to come to each home customers. If home owners are away, the recording process can not be done because, in general, KWh meters are placed in the home customers. The data that are recorded are also maybe not in accordance with counter in KWH meters. Therefore, the required a new system that is used in the process of recording data on the KWH meter.

In this new system uses a tool that can record data on the KWH meters with a sufficient distance away so that when the condition of the home customers is empty, the recording process can still be made. The data communication is done wirelessly between KWH meters with equipment that carried by the PLN.

At the research of final project the designing and implementation of handheld that capable to record the data on KWH meters wirelessly and database application for PLN customers. The handheld consists of microcontroller AVR ATmega8535 as the main component, RF (radio frequency) module for wireless communication, EEPROM 24C256 as external memory to store data PLN customers. Keypad and LCD are used to interface between the officers PLN and the handheld. The recording results in the handheld are entered to the database to be done the calculation for discharging KWH meters power.

Keyword : *KWH meter, microcontroller ATmega 8535, Module RF, Handheld, database.*