ABSTRACT

Electricity is needed in this 21st century, due to the activity of human life that continues to

advance. In this era of modernization Humans will never escape from an electrical energy. This

happens because someone uses his mind to solve every problem he faces. With the utilization of

electrical energy in the current era of modernization to achieve the practical goals of applied

science and the overall means to provide the goods necessary for the continuity and comfort of

human life.

Power Meter is a practical energy-saving device that can help monitor how much power

consumption is consumed daily per household electronic component. Therefore, continuous

monitoring of electric power is essential for the prevention of excessive energy use. In this final

project discussed the implementation of Modbus protocol by using Power Meter SPM 91to know

the power consumption. The result of this implementation is a tool that can calculate the electrical

energy used every day.

Through this monitoring application, potential users can experience how to estimate the

use of electrical power that can save if we can use electricity properly and can reduce the electrical

energy crisis for the future.

Key Word: Monitoring Aplication, Power Meter, Modbus Protocol