

Thanakorn Dujpen 2008: Controlling and Checking Electrical Equipments via Internet System. Master of Engineering (Electrical Engineering), Major Field: Electrical Engineering, Department of Electrical Engineering. Thesis Advisor: Associate Professor Chaiwat Chaikul, M.A. 97 pages.

This thesis presents a research on controlling and checking electrical appliances via the Internet that can be applied in daily life. Here we control the switches of a fluorescent lamp and an air conditioner and monitor room temperature by making use of IC DS1820 in a temperature monitor kit and PIC16F877 microcontroller in a controller kit. We also utilize voltage and current sinking techniques through current transformer (CT) in order to verify the operation. The internet serves in status indication and controlling of the appliances. An application programmed in Visual Basic communicates with the microcontroller.

Operating electrical appliances via the internet can be monitored and their electrical energy consumption can be controlled as the ON/OFF analog status is displayed on the website. All works as expected.

Student's signature

Thesis Advisor's signature

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