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CHATREE APINANKUL: POWER AND FIRE ALARM INFORMATION  
SYSTEM. THESIS ADVISOR: PIROJ SUWANSUTTI M.Eng., TANADOL PARITRANON  
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This thesis reports on the process of developing an electrical measure, recording, usage display system and developing a fire alarm recording system. The fire alarm recording system can be used in other systems such as an on/off port status. Electric usage data can be used to efficiently control electric usage.

The research project aimed to study the structure to connect each module, create a data communication protocol, create an electronic circuit and controller program to measure, record electric value for computer, create computer software to calculate and record it in a database, displaying results to users.

The researcher created a new electronic circuit to measure electric value and detect port on/off from the fire alarm system which was controlled by Z180 controller. The researcher created Z180 software to control circuit, computer software to record data in a database and display to user by using Visual Basic 5.0 on Microsoft Windows95 Operating System.

The result of this study revealed that the electronic circuit, computer program can measure and record electric usage data. This data can be used to control electric usage efficiently.