Application of the IoT Concept for Monitoring Electric Energy Consumption in Air Conditioning Equipment

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Abstract

The operation of air conditioning equipment for the process of cooling the room can result in the waste of electrical energy, which can be caused by the absence of information that can inform the amount of electrical energy consumption of the equipment.

This study aims to create a system that can monitor the amount of electrical energy consumption from the operation of air conditioning equipment based on the Internet of Things (IoT), where the monitoring process can be carried out anywhere, so users can make savings on the operation of the equipment. In addition, the system created can inform the amount of the price paid in rupiah (Rp) in accordance with the amount of electricity consumption detected.

The results showed that the system created can monitor and inform the amount of electricity consumption and the price paid for the operation of air conditioning equipment, where monitoring can be done through an Android Smartphone device or through a web server.
References

11. User Manual V1.2 ESP8266 NodeMCU WiFi Devkit, Handson Technology

Index Terms

Computer Science
Circuits and Systems

Keywords

Monitoring, Electric Energy, Air Conditioning, IoT, NodeMCU.