Abstract

In late years, smart-devices became very popular. This paper presents an application of power monitoring system using android application, which is convenient and efficient to achieve visualization of real time signals that are received from smart meters via GSM module. This application can be used by the consumer for measurement of electrical usage in the house and control their power usages accordingly. In this the analog data is converted to digital data with the help of inbuilt ADC and passes it to the Microcontroller. This application, built with wireless signals to mobile via GSM technology on the Android platform. Android base cell phones itself go about as a transmitter and receiver using ATmega16 microcontroller, power supply and GSM SIM300.

References

- Han, Dae-Man, and Jae-Hyun Lim. "Smart home energy management system using IEEE 802.15.4 and zigbee." In Consumer Electronics, IEEE Transactions on 56, no. 3 (2010): 1403-1410.

**Index Terms**

Computer Science  
Software Engineering

**Keywords**

GSM  ATmega16 Microcontroller  Android smart phone  smart meter