Abstract

This paper deals with the implementation of power line network in the field of electricity billing. In the present scenario power line communication (PLC) is one of the economical ways of communication of data. Even though there are new methods of wireless communication methods, practically it is very much time consuming to install such a system, and also it is highly cost consuming method. But the power lines which already exist and connect every household in a particular area is more advantageous as it does not require any new installation or erection for establishment of communication channels, and thus is not a time consuming one. One biggest advantage of this system is that it can be readily implemented, unlike the other modern methods. The power line network can also be used for creating emergency response networks. This project eliminates the need for employing EB meter readers and this set of employees can be used elsewhere. The long queues in the billing counter can be avoided by implementing this model. Also the control of the system is fully automated by this technique. The most important feature in this system is the use of digital meters consisting of micro controllers and real time clock, thus eliminating the loss of meter data during power failure.
Automated EB Billing and Supply Control using Power Line Communication

References

- The 8051 Microcontroller and Embedded system using Assembly and C-Muhammad Ali Mazidi, Janice Gillispe Mazidi, Rolin D. Mckinlay.
- Microprocessor and Microcontroller-Gaonkar. A. S
- Let Us C- Yashwant Kanetkar
- Home Automation Using Power Line communication Karim Shah, Zeshan SikandarNiazi, M Abdul Haq

Index Terms

Computer Science
Communications

Keywords

Concentrator Modem Node Modem Power Line Modem Stalon 3000a Microcontroller