

VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELGAUM



A Project Report on

“BLUETOOTH ENERGY METER”
(SPONSORED BY KSCST,BANGALORE)

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Abstract

In current world lot of investment is done in the field of social development to come up with day to day products that improve the standard of living. One of the major requirements for such development industries is availability of wireless equipments .that is wireless equipment is 'Bluetooth', even though the requirement of such device is large ,the cost of these device is very low .our project aims at design a Bluetooth energy meter that is low cost and high level reliability such that it can be affordable by social purpose. Along with this we aim to provide a better solution for analyzing Microcontroller, energy meter, Bluetooth, optocoupler, RS232 using same hardware.

Bluetooth is an open standard specification for a radio frequency (RF)-based, short-range connectivity technology that promises to change the face of computing and wireless communication. It is designed to be an inexpensive, wireless networking system for all classes of portable devices, such as laptops, PDAs (personal digital assistants), and mobile phones. It also will enable wireless connections for desktop computers, making connections between monitors, printers, keyboards, and the CPU cable-free.

The Microcontroller based system continuously records the readings and the live meter reading can be sent to the laptop/PC. Energy meter, Bluetooth module and LCD display are interfaced to the Microcontroller. The Microcontroller continuously gets input from energy meter; this data is processed and displayed on the LCD and also transmitted using Bluetooth module. This data can be received by any Bluetooth enabled laptop/PC. The Microcontroller in the project is programmed using Embedded C language.