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Original Article

MOBILE INTERFACED DIGITAL METER WITH SUB CIRCUIT LEVEL MONITORING

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ABSTRACT

Electrical energy plays an important role in our day-to-day life and acts as a strong support system to run our homes, offices etc. Our project combines both thesefacts and aims to bring digital meters using other means of technologies in an efficient way. We intend to build a mobileinterfaced digital meter that can take readings automatically and make the data readily available for consumers in form of app.

Most of the electricity meters in our houses show electricityusage as a whole i.e. total electricity usage is only measuredand available to the consumer. This gives an idea about totalconsumption but the consumer cannot extrapolate this data like where the power consumption is the largest and wherethe electricity is getting wasted. Our project solves that by measuring the electricity consumption of each room and making this data available both on the meter and on the mobile app developed for the process. This ensures easy data availability for the consumer and user-friendly interface for the consumer.

So, we introduce the mobile interfaced digital meter with automatic meter reading and data available to consumer inboth LCD display and application. Ideally each room in a house has different MCB and large appliances like water pump has individual MCBs and the meter can measure their individual power consumption and calculate the total power and display the data for the consumer.

KEYWORDS: Electric energy, MCB, Digital Meter, Consumer, Electricity Usage

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