

An Embedded Electric Meter Based on IoT

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Abstract: *In present world almost all industrial system are based on wireless communication, as it has many advantages. The embedded electric meter will continuously monitor and send the data on to a server system through wireless communication where the data will be stored as well. Later in LCD the value of EB meter will display. Even when the recharged unit is low the alarm will indicate. In software the user can see all the dates which is seen in LCD. The number of units used and amount details will be visible in software the user is able to monitor the EB meter. The proposed energy meter provides an effective solution for monitoring and managing energy consumption. It promotes sustainable energy practices by empowering users to take control of their energy consumption and reduce wastage*

Keywords: Arduino, LCD display, current coil, relay, and loads, IOT

REFERENCES

- [1] Manisha shinde, Pradip kulkarni “Camera click energy meter reading system”,2015 International conference on pervasive computing (ICPC).
- [2] Masudar Rahman,Noor jannat,Mohd.ohidul Islam,Serazus salakin, “Arduino and GSM based smart energy meter for advanced metering and billing system” , 2nd Int’l conference on Electrical engineering and information & communication technology(ICEEICT),2015.
- [3] Andrzej ozadowicz, jakub grela, “Control application for internet of things energy meter-a key part of integrated building energy management system”,2015.
- [4] Kedar Tong, Vijay Mane, Saloni Burad, Vrushabh, “Demand based variable electricity tariff meter”,2020.
- [5] N.S.Malik, F.Kupzog, M.Sonntag, “An approach to secure mobile agents in automatic meter”,2010
- [6]Tanmoy Maity and Partha Sarathi Das, “Intelligent online measurement and management of energy meter data through advanced wireless network” IEEE Wireless communication,2011.