



# POWER THEFT INDICATION OF ENERGY METER GSM TECHNOLOGY

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## ABSTRACT

This application note gives an outline of power failure at the load side; the load might be a house or an industry! Mcu with a source of information is given from the load side. On the off chance that any adjustment in load side, the adjustment in information is considered as power theft and the information is sent through wireless to the e.b utilizing gsm. By this we can set aside the time and cash this is more advance and compact. No compelling reason to advise to the e.b the system will take the whole cycle. Mcu family includes a comprehensive set of peripherals, including an I/o pins controller that lessens the external component prerequisite and product cost. New information to be sent can't be composed into the shift register until the past transmission is finished, and the got information (if substantial) is perused.

**Keywords:** *power theft, energy meter, GSM.*

### 1. Introduction:

Request reaction has filled essentially as of late and is relied upon to keep advancing as the interest side of electricity markets turns out to be more insightful, dynamic, and modern [1, 2]. On the off chance that the savvy grid idea requires consistent connection among makers and buyers of electricity, the following three to five years of interest reaction program development can be viewed as a scaffold to the brilliant grid, expanding on triumphs to date and moving consistently toward a more unique and intuitive electricity framework [3, 4].

### 2. Methodology:

The outline of power theft alerting system is appeared in figure 1. Contingent upon the gadget chose and includes empowered, there are up to five ports available. A few pins of the I/O ports are multiplexed with a substitute capacity from the peripheral highlights on the gadget. All in all, when a peripheral is empowered, that pin may not be utilized as a universally



useful I/O pin. The Data Latch (LAT register) is helpful for perused changed compose procedure on the value that the I/O pins are driving

The GSM utilizes narrowband Time Division Multiple Access (TDMA) method for transmitting signals. The GSM was created utilizing digital technology. It has a capacity to convey 64 kbps to 120 Mbps of data rates. By and by GSM support more than one billion mobile subscribers in excess of 210 countries all through of the world. The GSM gives fundamental to advanced voice and data services including Roaming service. Roaming is the capacity to utilize your GSM phone number in another GSM network.

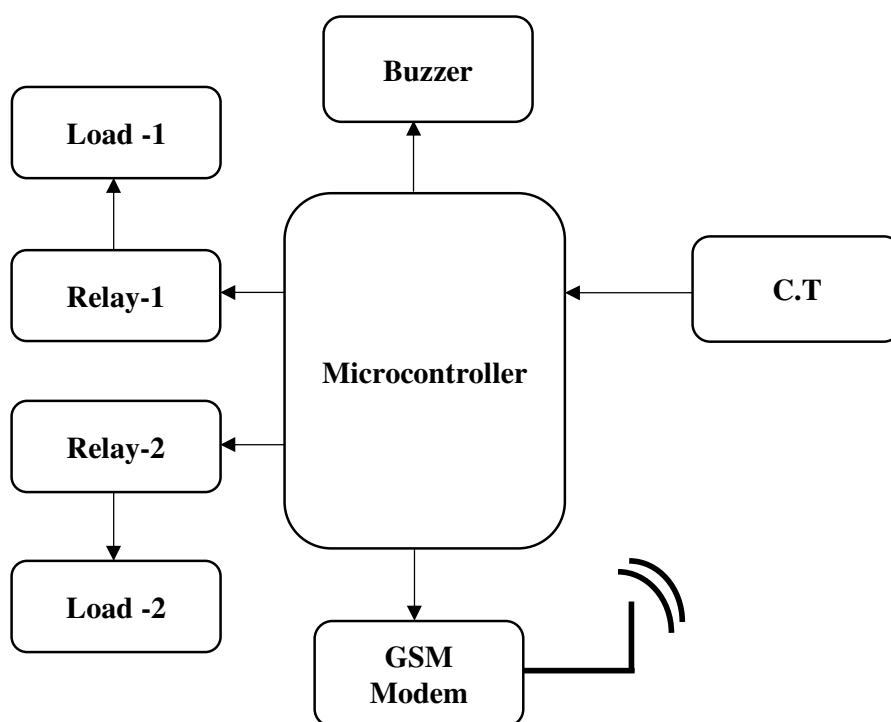


Figure 1: outline of power theft alerting system.

A GSM digitizes and packs data, then sends it down through a channel with two other floods of client data, each voluntarily opening. It operates at either the 900 MHz or 1,800 MHz recurrence band.

The L293D is intended to give bidirectional drive flows of up to 600-mA at voltages from 4.5 V to 36 V. gadgets are intended to drive inductive loads like relays, solenoids, dc and bipolar



stepping motors, just as other high-current/high-voltage loads in certain stock applications. All information sources are TTL viable. Each yield is a finished totem-pole drive circuit, with a Darlington transistor sink and a pseudo-Darlington source. Drivers are empowered two by two, with drivers 1 and 2 empowered by 1,2EN and drivers 3 and 4 empowered by 3,4EN. At the point when an empower input is high, the related drivers are empowered, and their yields are dynamic and in stage with their sources of info. At the point when the empower input is low, those drivers are debilitated, and their yields are off and in the high-impedance state. With the appropriate data inputs, each pair of drivers frames a full-H (or scaffold) reversible drive reasonable for solenoid or motor applications

### 3. Conclusion

Demand reaction has filled significantly as of late and is relied upon to keep evolving as the demand side of electricity markets turns out to be more intelligent, dynamic, and sophisticated. On the off chance that the smart grid idea requires seamless interaction among makers and consumers of electricity, the following three to five years of demand reaction program development can be viewed as a scaffold to the smart grid, building on triumphs to date and moving consistently toward a more dynamic and interactive electricity system.

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