



**Delving Research &  
Development**  
Private Limited

# DelSmartIoT

**ONLINE ENERGY MONITORING &  
MAXIMUM DEMAND  
CONTROLLER**



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**ONLINE ENERGY MONITORING AND MD CONTROLLER  
(MAXIMUM DEMAND CONTROLLER)**

This is a sub-product of DelSmart – DRCU and it can measure all three phase Electrical parameters and along with that, multiple relays are used for maximum Demand Control when the system load is exceeding 90% of maximum load.

It will also cut-off the non-critical loads based on customer inputs and cut-off the overall power supply when the non-critical load cut-off is insufficient through alarm/trip controls.



DelSmartIoT Hardwares

# Features in DelSmartIoT - Online Energy Monitoring and Maximum Demand Controller

- Following Electrical parameter measurement will be show in display
  - 3 Phase Voltage,3 Phase Current (3 Current Transformer (CT)method)
  - 3 Phase Power Factor,3 Phase kWh,3 Phase kVAh,3 Phase kVArh
  - Maximum Demand Value
- Maximum Demand Controller
  - When the system load is above 90% multiple relays to operate and control to Cutoff the Machine
- Time of Day (ToD) will be shown in Display ToD for kWh, kVAh, kVArh
- Online Monitoring via GSM for minimum every 1 Minute data (Can be configurable from minimum 1 minute to every 1 hour) and it can be changed in software and the device will work in two-way communication.
- It can be Remotely Configurable for Abnormal value (Over and Under Voltage Limits, Over Current limit) settings
- Abnormality-based SMS/e-Mail alert for following concerned persons
  - Over Current/ OverLoading alert
  - Over and Under Voltage alert
  - Low PF alert
  - Phase loss/Cut alert
  - Unbalance Voltage alert
  - Unbalance load alert

# Dedicated Software package

- Voltage and Current Chart of the selected day
- PF Chart of the selected day
- Required Capacitor Value Chart of the selected day
- Time of Day unit consumption with Maximum Demand Chart of the selected day
- Total Unit Consumption of the selected day
- Individual Capacitor Active and Inactive Time in a day
- Energy Report of all electrical parameters with corresponding capacitor ON/OFF details
- Individual Capacitor ON/OFF Log details  
Abnormality Log

