About Us

Delving Research and Development Private Limited, Commenced in **October 2015**, with the vision to create and provide a research ecosystem and develop products and processes that will help transform the society. The Specialized software is the result of doctoral research of **CEO Dr. R. Chitra**, the Reduction of energy losses in low voltage distribution networks and industries resulting in cost saving.

This diversified experience helps us to understand our customers' needs to build the best improvements to our products. Delving is the recipient of Certificate of Merit from **India Smart Grid Forum** (ISGF) Innovation Awards 2022 for the award category of "**Smart Startup of the Year**". Also Delving got selected in **Powerthon 2022** award at national level under the category **AT & C loss reduction**.

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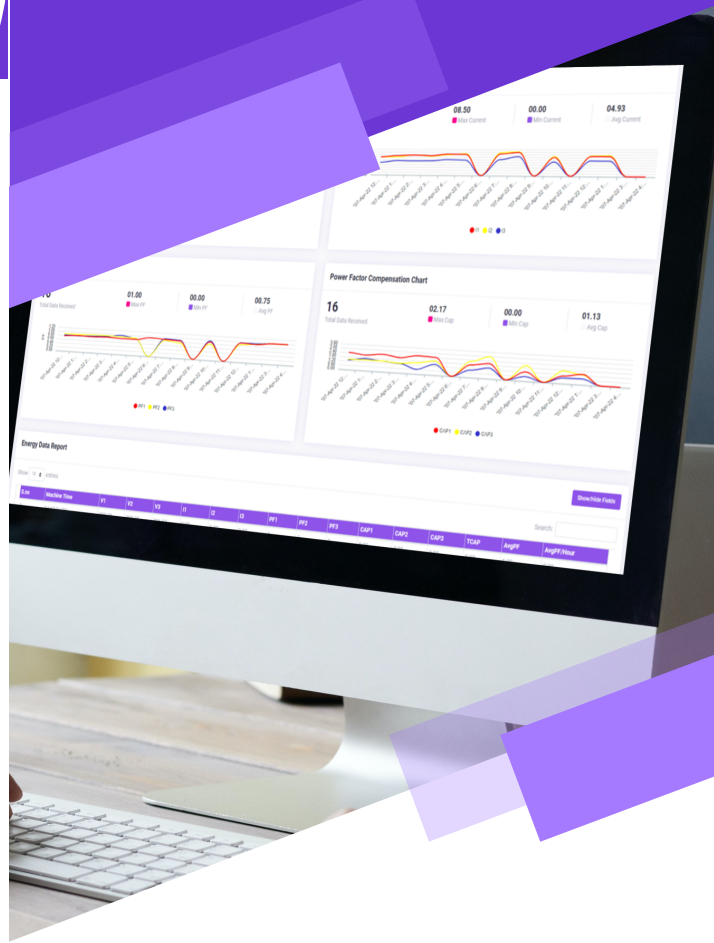
Go Deep Within...

Delving Research & Development
Private Limited

MFISM

Multi-Feature IoT Smart Energy Meter

To Maintain, Monitor & Control



MFISM - Multi Feature IoT Smart Energy Meter

MFISM can measure 3-Phase Electrical parameters (Voltage, Current, Power Factor, Real Power, Reactive Power, Apparent Power, Unit Consumed and Maximum Demand) and physical parameters (Temperature, Humidity, Speed, Level and Pressure) using sensors. Measured data's are pushed to dedicated software package through GSM/WiFi/Ethernet module.

It will cut-off the power supply of the system/machine, when the system/machine exceeding the rated values in electrical and the sensor as per customer requirement. It will also sent an SMS to the customer against abnormalities. Device-installed location identification can be done using a GPS module as add-on and it can be viewed in the Software package.

Single IoT device with Electrical parameter, Physcial Parameter, PF Improvement, MD Control, Abnormality based power Supply cut-off, with Time of Day, Data sent to Cloud Server, Two-way communication are the uniqueness of MFISM

Following are the sub-product of MFISM with Online data pushing using GSM/WiFi

DRCU - Dynamic Reactive Compensation Unit

DRCU can measure all 3-Phase Electrical parameters and calculate the required capacitor value for Power Factor improvement. single and Two Steps for individual machine/Pump monitoring and 3 to 8 steps for the overall industry or Electrical utility or Commercial buildings. It also has alarm/trip controls. Time of Day is enabled. 6 Capcitor and 2 MD control is enabled.

DelTex- Textile Monitoring System

Deltex can measure individual machine 3-Phase Electrical parameters, and Physical parameters like Front Roller Speed, Spindle Speed, Temperature, and Humidity can be measured. Power factor improvement by compensating the reactive power. It also has alarm/trip controls.

DT-MMCM - Distribution Transformer Measuring, Monitoring & Controlling Module

DT-MMCM can measure all 3-Phase Electrical parameters and Physical parameters like Ambient Temperature, Humidity, Temperature, Oil Level are monitored. For the load required capacitors will be calculated and dynamically capacitors are going inside to improve the power factor. It also has alarm/trip controls.

MD Controller- Maximum Demand Controller

MD Controller can measure all 3-Phase Electrical parameters and 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 Non-critical load cut-off is insufficient through alarm/trip controls. Time of Day is enabled.

Based on customer requirement we can include any MFISM features with any of above products

OUR IOT BASED MONITORING SOFTWARES

Demand Side Management System for Electrical Utility and Industry
Energy Management System with Energy Audit for Textile industry automation

RESPONSIVE DESIGN

Access through all kind of devices from anywhere

INTERACTIVE REPORTS

Every Detailed Reports including injected KVAR Report is available

LINELOSS REPORTS OF LV NETWORK

- Lineloss report with actual load
- Lineloss report with active compensation
- Lineloss report with reactive compensation

COST SAVING & TOD REPORTS