

Industrial Automation



**WingsIoT**

**Catalog**

**Cloud** enabled

**IoT Controllers**



**IoT Controllers**

**Remote Monitoring**

**SMRC**  
**Technology**

[www.smrctechnology.com](http://www.smrctechnology.com)

## **IoT Controllers**

are controllers based on latest micro-controller platform communicating on Ethernet, Modbus, I2C, LoRa and all other communication protocols. The controllers are cloud enabled ready with internet connectivity through GSM, WiFi enabling them to be used for remote monitoring through web browser or Mobile application. Can be configured to have Digital and Analog Inputs and Outputs.

Real time and Historical Trends can be visualised, Excel / SQL Reports can also be generated when a higher version of controller is used. Historical Data on cloud / local server allows to deploy data analytics which not possible in conventional controllers, PLC's and DCS's

## **Weigh Indicators / Weigh Feeder Controller**

Capable to take multiple loadcell inputs and Tachometer inputs and with the algorithms can be used as weight indicators for Weigh Scales, Weighbridges, Bins or Hopper Level Indicators, and with capability to communicate with VVFD can be used for weigh feeders and Loss In Weight Controllers. Built in configuration for Digital and Analog input and Outputs.



## **Remote monitoring of Pump Houses, Compressors, Driers, Sub stations, UPS**

Utilities like Pump houses, Compressors, Driers, UPS's for PC's, PLC's and DCS's are conventionally not centrally monitored. These controllers can be hard wired to field instruments and electrical contacts to monitor individual equipment and when connected on ethernet / Cloud can be used for centralised monitoring. Running Hours monitoring helps in effectively planning maintenance activities and to explore Energy Conservation activities.

## **Process Controllers , Batch Processors, Sequence Controllers**

Process controller for measuring and Controlling various parameters like Pressure, Flow, Level Temperature. Batch processors for mixing and batching plants, Moulding and Casting Machines, Sequence controllers for Bag filters pulsing.

## **Battery Health Management Systems**

Battery Health Management System is used to monitor the health of battery bank in real time to check the deterioration and prevent failure of emergency backup system. Connected to a server the system tracks the battery backup, charging circuit and alarms. Is very effective when coupled with a wireless device to real time monitor the health of battery bank of Overhead Cranes having upto 180 batteries.

## **Medical Parameter Monitors**

To Real time monitor, record and analyse medical parameters for Cardiac activity, Respiration, Blood Pressure, Pulse and Body Temperature. Central Svrer and Cloud connectivity makes it ready to use for Telemedicine.



## **Energy Monitoring System**

Connected to HT breakers, Energy meters, Capacitor banks, Transformers at different locations, Water, Oil and Gas flow meters, Solid / Semi-Solid Flow meters can be used to centrally monitor Thermal and Electrical energy generation and consumption patterns. This system can be further expanded to Electric Bill management system and discrete power factor control

Steel Division  
Automation Division  
Electrical Division  
Building Automation  
Medical Division  
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Waste Management

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