

## DISTRIBUTION TRANSFORMER MONITORING SYSTEM

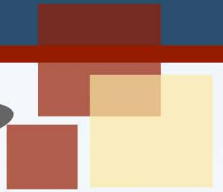


The main objective of DTMS is to Monitor and Control the Distribution Transformer. The features include Energy Measurement, Remote Data Acquisition, Peak Load Management, Energy Accounting, Transformer Health Monitoring, Remote Switching and so on. The communication protocol is DNP3 over GSM, GPRS or RF.



An ISO 9001:2008 Company

*Empowering Energy Sector*



## Key Benefits:

- Energy audit, load survey and fault analysis
- Reduces cost of scheduled and unscheduled maintenance
- Reduction in total cost of ownership and the distribution system
- Provides on-line transformer diagnosis
- Reduces chances of unexpected, catastrophic failures
- Reduces chances of power interruptions
- Longer life of transformers
- Provides utilities accurate information on loading of power transformers
- Better load management
- Provides alarm, energy parameters and other data to a central control station using RF modem
- May be seamlessly integrated with any SCADA platform
- May be used for monitoring power distribution
- Theft detection may be possible

## Features:

### A) Controller and I/O Module

- 32 bit ARM controller based mother board
- LED indications to display Relays and Digital inputs status
- 2 Serial ports (RS232) to communicate with master and configuration tool
- 8 No. Digital inputs (optical isolated) and 4No. Digital outputs with high security feature
- In built DSP based 3ph, 4 wire, tri-vector, 4 quadrant, 0.5 class energy meter module
- Front-end configuration software: CT ratio, Dead bands, scaling factors, enable/ disable, changing of serial port baud rate, and many more DNP3 parameters can configure with configuration software
- High accuracy Inbuilt RTC (Real Time Clock)
- Protected from EMI/EMC & RF noise as per IEC 61000 standard
- Form C type connectors for CT's
- Screw type connectors for Digital inputs and Digital outputs
- Level of protection IP 65.
- Box made up of mild steel sheet with Siemens grey color

### B) Power Supply Module

- Input 3 Ph or any 1 Ph, 230 V +20% / - 30% with battery charger
- 12 V battery with 4 hours backup

### C) Approx. dimension (W x H x D) --- 410 X 600 X 175 mm

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