eWatch 100

Web-based Energy Management

eWatch 100 is a web based state-of-the-art real-time data acquisition, monitoring & software for effective management of electrical systems by any electrical (electricity) and / or nonelectrical (heat, water & gas) business user in an industry.

The software communicates with MODBUS supported energy meters to acquire online data, processes the data and displays the data in tabular, gauge, graphical or mimic views as per user choice.

Its enriched alarm engine, dash board & reporting tool facilities help the user to take decision proactively, thus eliminating any harmful events in the electrical or non-electrical system. The system also supports billing analysis for main & auxiliary supply. Further, the system helps the user to analyze carbon emission based on energy consumption.



Applications

- Industrial and commercial sub-metering applications
- Building management and monitoring systems
- Entities engaged in energy certificates, carbon credit and ISO / Green building
- Generating power plants
- Open access industries

Benefits

- Online energy monitoring & cost analysis
- Enables entities to drive energy efficiency, reduce cost and carbon footprint
- User configurable dashboards using drag and drop wizard for multiple users
- OPC server to provide online data to external system / software
- Single system to support up to 1000 meters of multiple makes including dual register meters
- Web based software (works on Intranet)
- Easy implementation through client-server architecture
- Helps to monitor & compare trends of different locations
- Helps to set targets against which consumer can monitor utility use
- Configurable alarms for instantaneous parameters with high and low threshold limit
- Single point acquisition for multi fuel data (Electricity, heat, water and gas)
- Easy installation

Features

- Online data acquisition over RS 485 MODBUS & TCP/IP
- Multiple on line viewing options such as tabular,
- configurable gauge and graphical, dashboard & mimicFlexibility to define dynamic tariff structure to analyze
- energy costCarbon emission analysis based on type of energy consumption
- Flexible reporting options for energy consumption, demand report, virtual metering report, min-max parameter report and meter replacement report
- Automatic daily report generation and E-mail to assigned user for electrical meters
- Organized storage of the collected data for the future use with auto & manual clean-up facility
- OPC (Server version Std. DA V2/V3) data communication
 support
- Supports multi-fuel monitoring for heat, water & gas meters through pulse output
- Facility to monitor & analyze multiple locations under single view using Virtual Meter concept
- Active Mimics configurability with drill down mimic feature
- Separate bill analysis for mains and auxiliary
- Shift wise production data entry to generate specific energy consumption report
- Automatic Bulk Metering information import through
 excel import



eWatch 100



Graphical Views



Energy Bill Report

Bill Report					admin 🕻
Export Cancel					
		Bill Report			
				Billing Period.	Jan - 2014
Metering Location Detail					
Location Name:	ML-EL105100	Supply Type :	GridSupply	Meter Serial No:	ELI05100
Billing Address:	Gurgaon, Secure Meters Ltd	Meter Type:	Electrical	Tariff Code:	Slab Tarif
Bill Detail :					
Sanctioned Load(kW):	25.17	Contract Load:	53.98 kW		
Energy Charges Details		Auxiliary Supply Charges		Bill Summary	
Parameter Selected	App. Energy -Act. Ener	Parameter Selected		Energy Charges	21214
From Reading (kWh)	276442.93	From-To Reading(kWh)	0 - 0	Standing Charges	210.8
To Reading (kWh)	279613.23	Rate	7	Demand Charges	125.85
Energy Consumption(kWh)	3070.3	Consumption(kWh)	0	LPF Charges	0
Type of Rate	SlabBased	Auxillary Supply Charges	0	Demand Violation Charges	0
Rate	0-50(4)			Carbon Levy Charges	18421
	50 - 100 (5)	Energy Export Charges		Auxiliary Supply Charges	0
	100 - 150 (6)	Parameter Selected	Act. Energy To	Meter Rent	90
	>= 150 (7)	From Reading(kWh)	7405.98	LT Charges	1484.9
		To Reading(kWh)	7405.98	Additional Fixed Charges	76
		Rate	9	VAT or E-Tax	3329.8
		Consumption(kWh)	0	Total Bill	44953

Mimic View



Selectable Modules

- Virtual Metering
- Dashboard View
- Alarms
- Multi-Fuel (Gas, Water, Heat)
- Mimic View
- Production Data
- OPC Compatible
- Billing
- Carbon Footprint
- Historical View
- Email Reports
- Third Party Support

INSTRUMENT

Specifications are subject to change without prior notice

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