



Intelligent Facility Management System



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DAXView iX10 is an advanced facility monitoring and fault detection system. IoT Cloud ready to scale from a small number of in building nodes, to a large number of distributed nodes across country wide. Expandable to support diverse range of monitoring endpoints.

Timely notification of equipment fault is the key in managing facility KPI to prevent unplanned service downtime. The DAXView iX10 is designed to be easily integrated to electrical and environmental monitoring infrastructure and provide advanced remote monitoring functions in a compact package size.

Equipment faults are unpredictable and proactive resolution can be applied before problem strike. The iX10 provides a continuous data collection from power meters, water meters, protection relay and environment sensors to build a long-term energy & behavioural profile of the facility. Fault incident, tripping of circuit breaker, abnormal sensor level are detected immediately by iX10 which sends SMS and Email alert to the operation team. Events are logged into memory and allow user to review at a later time.

Intelligent FMS

- Real time event notification
- Equipment operation trend logging
- Anomaly pattern pre-fault detection
- IoT Cloud ready

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The iX10 is an industrial compact computer with a rich sets of on-board digital input/output, analog input/output, Modbus RTU and Ethernet TCP network communication interface. Industrial grade mobile network gateway that supports multichannel sending are used in the iX10 to connect to 3G/LTE/4G network to deliver alert SMS and email. An integrated UPS supply ensure that all alert SMS will be sent regardless of main utility power supply condition. The high contrast ruggedized IP65 rated touch screen display allow local operator to read live system status, review historical event log and download trend report on to a removable storage. The iX10 can operate as a standalone local unit or as a networked intelligent remote node when it is configured with the iX10-Cloud Enabled option.

When the DAXView iX10 connects to our DAX1000 Cloud Service, the iX10 remote node become part of an intelligent analytic network which predict fault before it happens. Data are consolidated by the iX10 data uplink buffer and batch uploaded via secured encrypted protocol to reduce network transmission traffic load and prevent network attack. These data are fed to the DAX-1000 IoT Cloud Server which perform Machine Learning algorithm to pick up anomaly pattern. The DAX-1000 automatically learn and reviewing these anomaly pattern and notify the operation team on early signs of equipment malfunction before it develops into a disruption. The DAX-1000 IoT Cloud Service can be licensed as a hosted service or on premise hardware solution.

Industrial Grade

- IP65 protection level touch screen HMI
- Redundancy SIM auto failover backup mobile network
- OPC/ MQTT/ RESTapi open protocol (Cloud enabled service)
- Integrated UPS ensuring reliable SMS notification during mains supply failure







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DAXView iX10 technical specification:

Functional and System Features	iX10	iX10 (Cloud enabled)
 Industrial Touch Screen computer system with 1.2GHz 64-bit Quadcore ARM Cortex-A53 processor running Linux OS 	Standard	Standard
10" Resistive Touch Screen LCD display (1024x600 resolution) other resolution size available upon request	Standard	Standard
1GB RAM, 16GB Flash DiskOn-board Real Time Clock	Standard Standard	Standard Standard
11x On-board Digital Input11x On-board Digital Output	Standard Standard	Standard Standard
4x On-board Analog Input 2x On-board Analog Output Support of the section of the secti	Standard Standard Optional	Standard Standard Optional
 Expandable with external module x64 Di Expandable with external module x64 Do Expandable with external module x32 Ai 	Optional Optional	Optional Optional
Expandable with external module x16 Ao 1x Ethernet RJ45	Optional Standard	Optional Standard
3x USB.201x RS485	Standard Standard Standard	Standard Standard Standard
1x RS232C Piezo sound buzzer Authorized Contents	Standard Standard	Standard Standard
 Audio Jack Output Ultra-capacitor UPS power backup (10years maintenance free) Water Resistance Rating of Touch Screen Display 	Standard Standard IP65	Standard Standard IP65
Operating temperature & humidity SMS Auto Paging	0°C∼50°C 95%RH Standard	0°C~50°C 95%RH Standard
 Email Sending WiFi Access Point IEEE802.11b/g/n Mobile 3G/4G router with Firewall/ DDNS function with dual SIM auto failover switching (Dual mobile SIM router optional) 	Standard Standard Standard	Standard Standard Standard
 DDC communication via Modbus-RTU/ Modbus-TCP Optional DDC protocol support BACnet 	Standard Standard	Standard Standard
Anomaly Pre-Fault Detection	Not Available	Standard
 Centralized Remote Device Management Centralized Data Warehouse Supporting OPC-UA/ Modbus- TCP/ MQTT data pull 	Not Available Not Available	Standard Standard
Cloud Dashboard consolidated network view Event Acknowledgement and Workflow Assignment tracking Epoxy powder coated steel enclosure for wall mounting c/w lockable swing door	Not Available Not Available Standard	Standard Standard Standard
Power supplyEnclosure weightEnclosure dimension	230VAC 50Hz 12kg 400mm (width) 600mm (height)	230VAC 50Hz 12kg 400mm (width) 600mm (height)
Installation	200mm (depth)	200mm (depth)
• IIIStaliatiOII	Wall Mounting	Wall Mounting

Note:

DAXView iX10-Cloud Enable require the cloud software license of DAX-1000 to perform the IoT functions. Please contact our solution team for a product walk through and a license offer proposal to suit your needs.

