SRP-EEM351

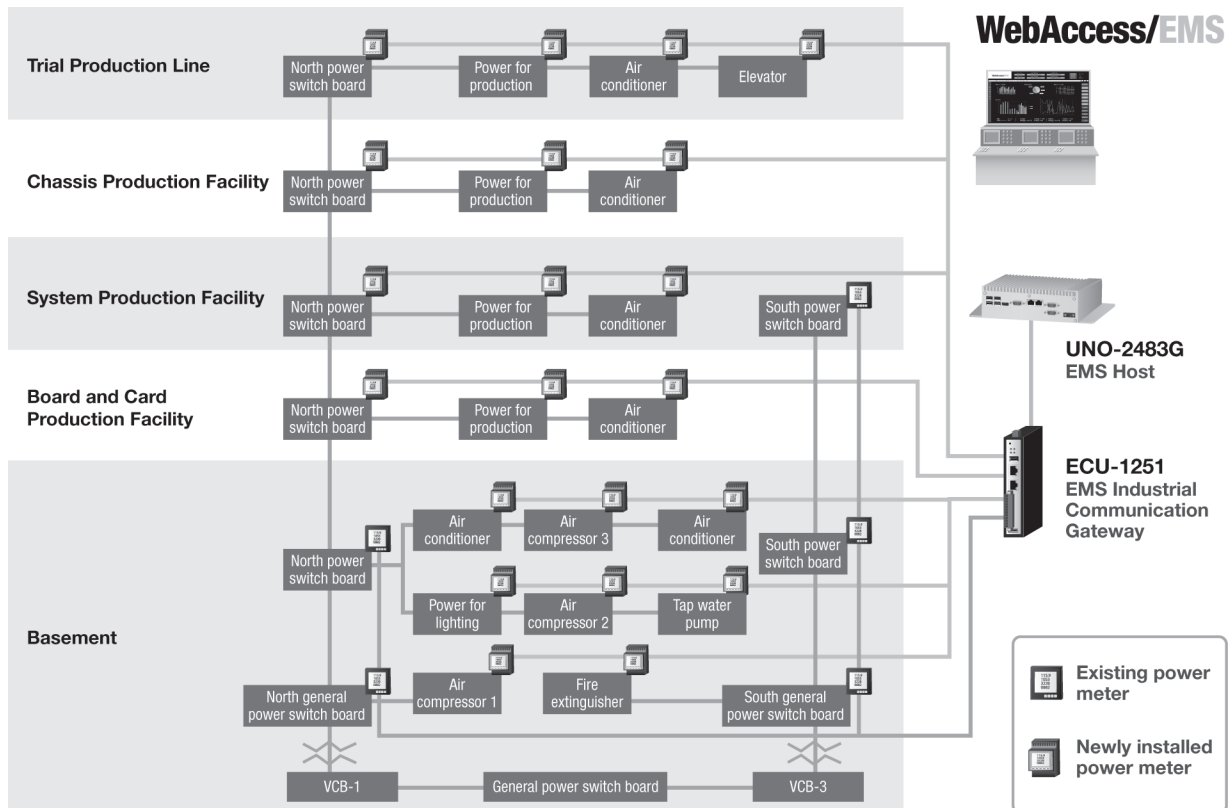## Factory Energy Management Solution

WebAccess/EMS

Features

- Highly stable and reliable centralized monitoring and management system for key energy consumption equipment
- Intact data guaranteed by store and forward when communication fails
- Easy to understand data indicators via intuitive graphical display
- Smart alarm notification through SMS, e-mail
- Complete energy consumption statistics and analysis tool to capture energy waste and reduce energy costs
- Easy maintenance of backend via simple management
- Unified and flexible central management system for integrating existing systems
- Cross browser and platform support powered by the WebAccess Dashboard

Introduction

Advantech factory energy management solution aims to save energy costs, reduce maintenance, and increase production. It provides the hardware and software needed to establish an efficient energy management system. This solution adopts an acquisition gateway which supports multi-protocols and multi-network communications to accurately target high energy consuming devices and factory facilities. With the help of Advantech's WebAccess/EMS software and high-performance industrial computer it can perform remote real-time monitoring, smart alarms, report statistics and intelligent analysis, to help managers find abnormal energy consumption and identify areas that need improving. It will optimize the energy use of equipment, improve production scheduling, and make energy savings all round.

System Diagram

Major System Functions

Graphical Dashboard for Clear Energy Indicators

- The whole factory energy data integrated in one screen
- Real-time energy performance indictors
- Flexible filter to display the real-time information of selected item
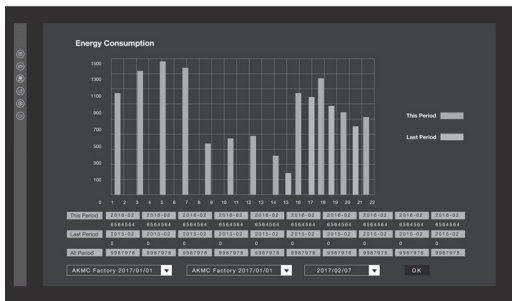- [My favorite] personal exclusive page

Displays Electricity Usage for Analysis

- Peak/off-peak/semi-peak separation analysis
- Long-term record of electricity consumption to calculate the best contract capacity
- Group, timeline comparison analysis tool
- Establish energy performance indicators and energy consumption baseline
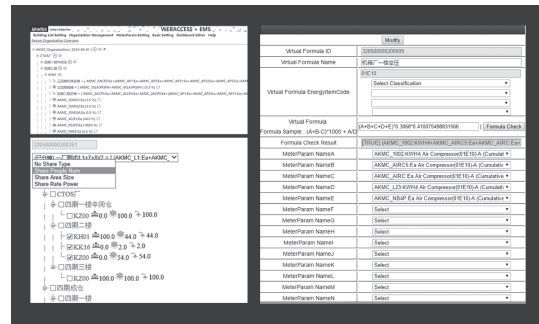

Data Diagnosis to Save Energy

- Connects MES/ERP system, compares work orders, finds abnormal power consumption and adjusts peak electricity
- Amortizes public facilities' electricity expenses with actual usage
- Electricity calibration, balances energy management fees and accounting statements

Easy Maintenance of Backend System

- Easy expansion
- System data can be exported to Excel
- Electricity amortization can be flexibly set due to organizational changes

SCADA for Centralized/Decentralized Control

- WebAccess/SCADA graphical control software platform, with complete SCADA graphical control expansion functions
- Single interface integrates all plant environmental control messages and offers unified warnings

Mobile Devices Support for Monitoring Anywhere/Anytime

- Based on HTLM5 platform, supports cross-browser & cross-platform viewing
- Real-time exception alerts via APP push notifications, improving reaction rates