

Automated Building Control

ASI Controls provides control system products to manage environmental conditions, monitor status of key systems and components, and optimize building energy use.

Our control systems allow you to see current conditions and to receive notifications if components fail or conditions are unsatisfactory. Users can remotely set schedules or adjust setpoints and temperatures in a web browser on their PC or mobile device.

We provide the tools to open new windows into building performance.



- Complete line of configurable supervisory controllers, pre-programmed terminal unit controllers, accessories
- Real-time data display and on-board configuration so there's never any waiting on a compiler
- Drag/drop configuration with no line programming
- Two decades of experience delivering high reliability and performance with field-proven control sequences
- Native energy management functionality including Demand Limiting, Load Shedding, and Optimum Start
- Automated delivery of alarm and event notifications
- USB to Ethernet connectivity for standalone sites
- BACnet MS/TP, BACnet-IP, OPC interfaces for industry standard interoperability
- Controllers for VAV, Package Units, Heat Pumps and other common applications

ASI Controls

Reliability ▪ Performance ▪ Value



Engineering & Web Interfaces

ASI Visual Expert Configuration Interface

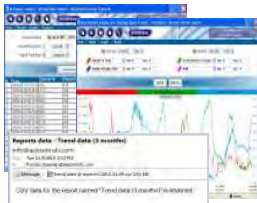


- ✓ Intuitive configuration for rapid configuration and engineering
- ✓ Configurable objects including PID loops, Alarm, Schedule
- ✓ Dynamically change logic object allocations in seconds
- ✓ Live system data displayed during configuration
- ✓ No line programming or waiting on a compiler

ASI WebLink Front End



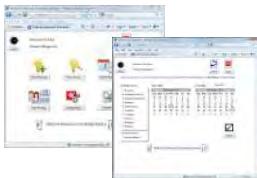
- ✓ Integrate CCTV, Access Control, and other systems in a single, unified intelligent building interface
- ✓ Remotely monitor and control facility climate and energy use



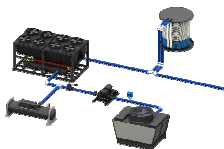
- ✓ Create reports and graphs to analyze performance
- ✓ Monitor, graph, and record key data points
- ✓ Schedulable email delivery of reports data in CSV format



- ✓ Configurable Demand Limits to ensure peak demand is capped
- ✓ Optimum Start logic manages morning warm up energy usage
- ✓ Load shedding algorithm can automatically reduce facility demand as threshold is approached



- ✓ Complete web interface for scheduling zone occupancy with support for recurring dates, holidays, and curtailments



- ✓ Libraries of animated 3D graphics for visually compelling and intuitive display of building status

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Supervisory Controllers

Energy and demand management, large equipment, small facilities, or network supervision
Proven reliability with flexible and intuitive object programming for cost-effective control



16 Universal Inputs
16 Binary, 8 Analog Outs



8 Universal Inputs
8 Binary, 4 Analog Outs

- ✓ BACnet MS/TP or legacy ASI interfaces with optional Modbus RTU Master interface on local bus
- ✓ Demand Limit, Load Shedding, and Optimum Start logic for energy cost control applications
- ✓ Automated alarm and event notifications; onboard calendar clock, trending, configuration storage
- ✓ Power to process four multiplexed digital inputs per Universal Input for added cost effectiveness
- ✓ Rugged field-proven reliability; commitment to backwards compatibility for full lifecycle value
- ✓ ASIC/3 line featuring XBee Wi-Fi, Ethernet, fast USB firmware upgrades, dual local bus models

BACnet/IP Interface

Provides BACnet/IP communication to ASI controllers made since 1991, offering cost-effective BACnet front end upgrades or retrofits on legacy ASI systems



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Regional Sales: (302) 629-7730

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Terminal Unit Controllers

Selectable sequences for VAV, Dual Duct VAV, Package RTU, Heat Pump, Fan Coil applications



VAV and Fan Coil

- ✓ Models for VAV or VVT applications
- ✓ BACnet or legacy ASI protocol interfaces
- ✓ Optional integrated actuator or retrofit models
- ✓ Compatible with parallel or series fan-powered boxes
- ✓ Calibrated airflow sensor delivers accuracy at low airflows
- ✓ Electric or hot water reheat, lighting, overrides, trends, changeover



Package Units and Heat Pumps

- ✓ Removable screw terminal connectors
- ✓ Option to enable CO₂ based ventilation logic
- ✓ Modulating economizer based on mixed or discharge air



VAV Dual Duct and Tracking

- ✓ Calibrated onboard airflow sensors
- ✓ Selectable personalities for most Dual Duct VAV applications
- ✓ Volume tracking allows positive or negative zone pressurization



Portable System Interface

- ✓ Convenient USB-powered field access to ASI networks



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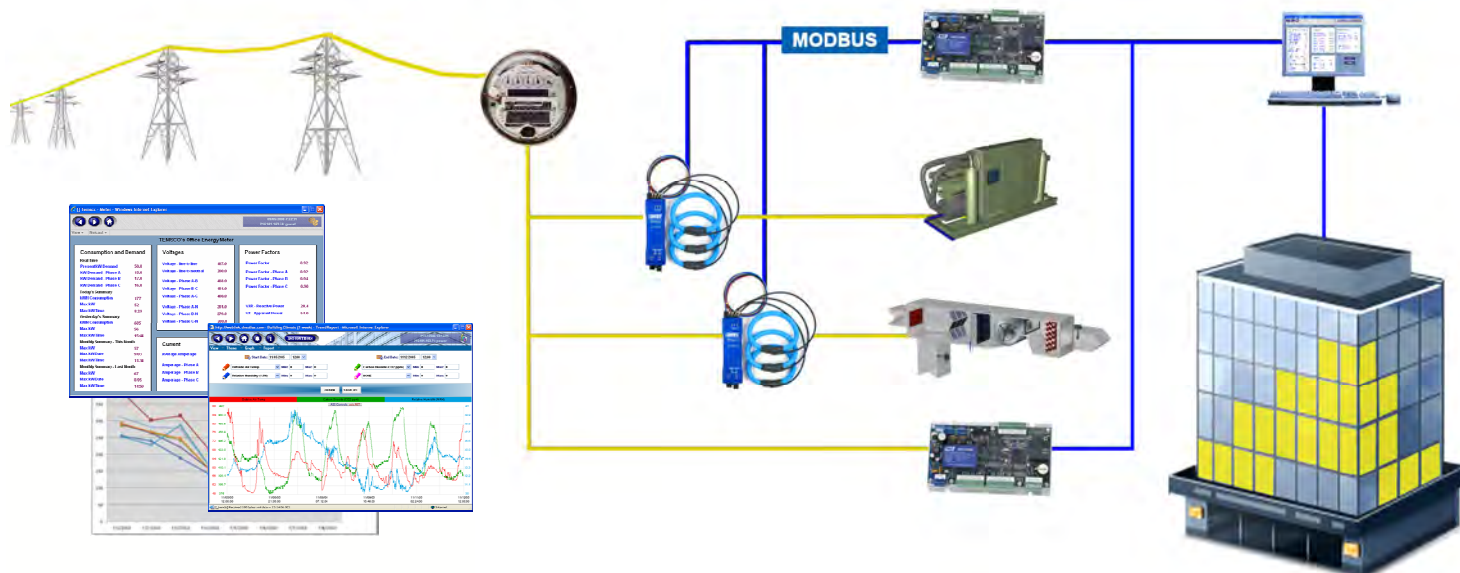
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Energy Management Solutions



Building Automation and Energy Cost Savings

We provide tools to implement scheduled control of building environments. Our systems can automatically control facility energy costs using capabilities that include demand limiting, load shedding, optimum start, and Modbus for control of VFDs and other energy efficient devices.

ASI products are backwards compatible to help ensure full return on control system investments. This also offers cost-effective retrofit opportunities for new energy smart controllers to supervise legacy BAS networks, increasing the functionality and payback from existing systems.

ASI Controls Energy Management Systems can provide facilities with automated climate comfort, browser based monitoring and control, and verifiable, persistent energy cost savings.

- ✓ **Modbus RTU Master interfaces** for integration of power meters, VFDs, and other devices
- ✓ Energy smart controllers with **Demand Limiting, Load Shedding** and **Optimum Start** logic
- ✓ **Unified web front end** incorporates CCTV, access control, other intelligent building interfaces
- ✓ Niagara AX to integrate devices and networks with **BACnet, LON, or Modbus** interfaces
- ✓ **Extensive backwards compatibility** helps deliver full value from control system investments
- ✓ Web access to record, graph, and report **energy demand, consumption, and power quality**

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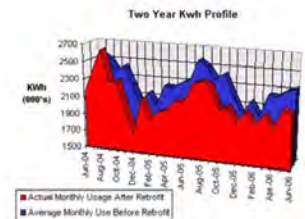


Take Control of Energy Costs

ASI WebLink front ends offer unparalleled EMS functionality with features including automated **alarm and event notifications** for timely reaction to events, historical data archiving in an open **ODBC compliant database**, a browser-based graphing and reporting interface supporting easy **CSV data export** to extract data into other reporting systems for further analysis, and automated **email delivery of reports** to verify ongoing savings. ASI solutions incorporating demand limiting, load shedding and optimum start, scheduling, Modbus integration to meters and drives, and web monitoring with email report subscriptions can provide persistent control of facility energy costs.

EMS Saves Hotel \$127,000

A major international hotel chain retrofitted an ASI EMS at their Anaheim location to control air distribution systems, cooling towers, and a 3,150 Ton Chiller Plant. The ability to deliver energy savings while maintaining guest comfort led the company to do ASI EMS retrofits at other prominent sites.



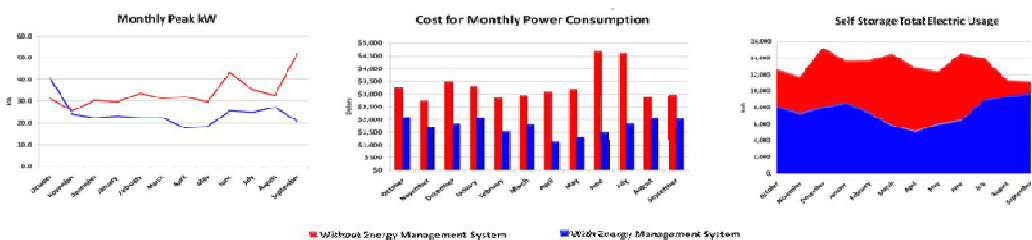
Automated Cost Control for Small Outlets

ASI networking and energy management features can provide energy cost savings and remote monitoring and control for networks of small stores. Systems integrator TEMSCO leverages two decades of experience with EMS to deliver solutions providing net positive monthly cash flow for fast food and other networked retail outlets with challenging ROI requirements.



Improved Operating Margins at Storage Facilities

Envirotrols Group used the Demand Limiting and Load Shedding capabilities in ASI systems to lower operating costs and reduce the carbon footprint at over 60 climate controlled Safeguard Self Storage facilities. Energy costs were reduced by over 25% in the first year. Automated reporting helps verify savings and ensure consistent returns.



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