



WESATYN

Automation Systems and Solutions

Building Automation

Energy Management

RFID



Building Automation Systems (BAS) consists of programmed and computerized intelligent network of devices that control, log, and monitor heating, cooling, ventilation, refrigeration, lighting, building security and access systems within a building. We design our BAS solutions with an optimum mix of technology, price and experience. With project experiences in systems development, integration, and the appropriate selection of hardware, we provide the most advanced and cost-effective solutions. We are focused on deploying the right technology to create sustainable, intelligent, and green buildings.

Intelligent green buildings reduce energy consumption and maintenance costs, in addition to improving air quality. BAS enhances the true performance of a building. It improves and documents occupant comfort, and energizes the interaction of the mechanical, electrical and lighting sub-systems within the building. It also allows for easy off-site building monitoring and control, which largely contributes to the overall goals of a sustainable and pollution-free environment.



Wesatyn collaborates with manufacturers who partner in the Energy-Star program. We have a mandate to help businesses and individuals save energy and protect our environment by implementing energy efficient projects. We are committed to educating our clients about energy savings opportunities built on technology-based solutions such as **Building Automation Systems**.

Smart Green Building Solutions



Professional Engineers
Ontario

Authorized by the Association of Professional Engineers
of Ontario to offer professional engineering services





Automation Systems features

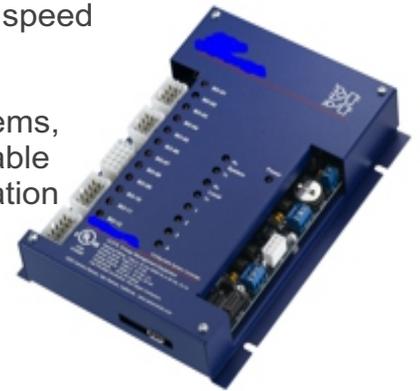
The challenge of a property owner or manager in any building or facility is to assist their clients in experiencing the comfort and features designed within the facility. We achieve all of this by providing features that reduce energy consumption, reduce maintenance costs, provide security, and control access to the facility. We do this without compromising client comfort and within a budget.

To optimize the value of our building automation solutions we do not promote any specific product. We develop solutions that are unique to each project and then find the ideal configuration of hardware, user friendly software with complete graphical user interface (GUI) and sensors. Our automation hardware products, are compatible with the open protocol. This eliminates total dependence on devices manufactured by a specific original equipment manufacturer (OEM).

Hardware

The brain of the systems are controllers. Pre-programmed controllers are available to suit various applications with 8 or 12 universal inputs. These very powerful controllers feature graphical configuration interfaces with a library of objects available to speed up the system configuration and commissioning.

Configurable controllers are suitable to control large mechanical systems, for smaller equipment, or lighting systems. These controllers are capable of supervisory and network control functions. The controller configuration is stored on board and preserved through power outages. They are exceptionally flexible and can be used as stand-alone controls. They can be remotely accessed through Ethernet or Modem.



- USB, RS-485, and RS-232 connections
- Low-cost Ethernet connectivity using off the shelf USB-to-Ethernet converters
- 16 universal inputs (multiplex to 64), 12 binary + 8 analog outputs

Monitoring

Alarm	Value	Unit	Category	Event	Location
Zone Temp Alarm F00	60.00	°C	07:12:40:07:1:00	Panel: 000	2000 Control/Plenum/000
Zone Temp Alarm F11	60.00	°C	07:18:52:07:1:00	Panel: 000	2000 Control/Plenum/000
Zone Temp Alarm F01	60.00	°C	07:19:04:07:1:00	Panel: 000	2000 Control/Plenum/000
Zone Temp Alarm F05	60.00	°C	07:13:02:07:1:00	Panel: 000	2000 Control/Plenum/000
Zone Temp Alarm F08	61.00	°C	07:08:12:07:1:00	11:17:00 CH0000	2000 Control/Plenum/000
Zone Temp Alarm F04	60.00	°C	07:08:00:07:1:00	11:17:00 CH0000	2000 Control/Plenum/000
Zone Temp Alarm F13	60.00	°C	07:08:00:07:1:00	11:17:00 CH0000	2000 Control/Plenum/000
Zone Temp Alarm F17	60.00	°C	07:08:00:07:1:00	11:17:00 CH0000	2000 Control/Plenum/000
Zone Temp Alarm F12	60.00	°C	07:08:00:07:1:00	11:17:00 CH0000	2000 Control/Plenum/000

The Building Automation Systems features and benefits:

- Detailed monitoring and logging of system alarms and events
- Generate alerts to numeric pager, cell phone, e-mail or fax
- Web Interface for remote monitoring
- Log all details of trends, alerts, alarms to database

Our systems are designed to monitor, display and log alarms and events in a sortable table. They can be configured to forward alarms and event notifications to an individual or list of recipients at a designated numeric pager, cell phone, e-mail or fax. Properties such as datestamp and date values of the event or alarm can be seen by double clicking the specific alarm or event. User logins are password protected and can be created with levels of access as per individual user needs and the protocols defined.





Weblink

Our web enabled systems are capable of remote access from your web browser to view live data. You can upload new configuration data to change or adjust operating parameters. You can access and display controller-level trend-data graphically or store data on the local hard drive for greater capacity. Historical trending can be activated from any point or points on the system and the data can be archived based on a schedule or change of value.

- Display real-time data on your web browser
- View trend graphs and export data to Excel
- Real-time video monitoring
- Assign control access based on agreed security protocol
- Create customized view for clients, maintenance staff and tenants



Solutions



Data points can be made visible or editable, according to the security level. For example, you can selectively enable set point adjustments and overrides for building maintenance personnel, create a summary view screen showing energy consumption for the building owner, and display read-only screens for building tenants to show which of their systems are in operation. Any data element on a view screen can be further manipulated via custom scripting for added flexibility and control.

Building automation systems are ideal for applications where building owners demand high end energy efficient, safe and comfortable living. BAS provide complete intelligent solutions to control a building:

- » Lighting
- » Air-conditioning, Heating and Ventilation
- » Domestic Hot Water Heating
- » Building and Garage access
- » Home Security
- » Energy Consumption and Demand Management
- » Facility & Asset Management

Wesatyn can provide complete design built automation solutions for:

- Multi-residential apartments
- Commercial high rise buildings
- Commercial Office Towers
- Shopping malls
- Institutional buildings (Schools, Colleges, Hospitals)





Radio Frequency Identification (RFID)

RFID is an automatic identification system where information is stored for remotely retrieving data on devices embedded on labels called RFID tags. The communication uses high and low radio frequency waves that carry information from the tag to a reader. The technology has been around for a long time. Until a few years ago the cost of the product was prohibitive and the functionality of its application was limited for any viable commercial application.

However, it has caught the imagination of both manufacturers and users as a viable option to asset management, logistics and identification and tracking of goods in the supply chain. As this technology continues to mature, RFID solutions are inclined to grow widely in application. Its greatest advantage over a bar code label is that it does not have to be in the line of sight of the reader and it is rugged.

We provide complete RFID solutions for the retail business, logistics and manufacturing environment. We start with a comprehensive needs analysis of client. As an added value to our retail clients we can also provide transactional POS terminals that can reduce transaction costs by 15-30 %. We continue to develop RFID solutions to meet the requirements of our clients.

We provide RFID solutions for:

- Asset Management
- Logistics
- People and Vehicle Access
- Inventory Control
- Document Control and Tracking

An RFID solution has an advantage as it can assign a unique EPC (Electronic Product Code) to every item even if two items are identical in all respects.

Our BAS clients include:

- Banks
- Multi-residential units
- Court houses
- Museums
- Retail
- Manufacturing

Please call us to discuss your requirements. We engineer design built solutions globally, but deliver these solutions locally through our regional offices in India, Dubai and Canada.

Wesatyn also provides complete range of customized manufacturing process automation solutions.

For inquiries please contact us at:

Wesatyn Inc.

91 Valleyview Drive, Ancaster, Ontario L9G 2A6
Telephone: 647 556 1095 (Office) 289 339 4814 (Direct)
Email: info@wesatyn.com
www.wesatyn.com

