



# Building Automation Solutions

Since 1986

[www.asicontrols.com](http://www.asicontrols.com)

# A Leader in Building Automation Systems

Over 30 years of industry innovation and expertise

Since our founding more than 30 years ago, ASI Controls has remained a market leader in building automation solutions. Today we offer an array of BACnet™ BTL-certified controllers and accessories for a wide variety of applications, ranging from single controller solutions such as OEM control of a chiller, AHU or other mechanical equipment, through mid-size building and equipment control applications and up to large systems integrating thousands of networked controllers and equipment and devices from multiple vendors over BACnet™, OPC™, and Modbus. With options to host front ends on a controller, server, or in the cloud, ASI provides rich, responsive interfaces for remote monitoring and control.

Building owners and operators can install automation solutions today without worrying about products becoming obsolete tomorrow because ASI Controls is uniquely committed to backwards compatibility. Controllers released today are fully compatible with devices released over 25 years ago. Users can seamlessly add mobile interfaces, implement Haystack tagging, access JSON, XML or CSV data via OpenAPI's to serve Analytics and ML/AI applications, respond to OpenADR signals, integrate with BACnet controllers, and add other innovative features to legacy systems to maximize life cycle ROI.

ASI advantages also include a 5-year limited warranty on ASIC controllers, sensors, and core accessories, strong customer support, and unparalleled reliability and product lifespan.

## The ASI Difference



### LOWEST TOTAL COST OF OWNERSHIP

Save money and downtime with the longest-lasting products in the industry, along with unprecedented interoperability and backward compatibility



### RUGGED AND RELIABLE

For harsh environments and critical systems—or when you simply want your client to have the longest-lasting product in the industry—nothing beats our controllers

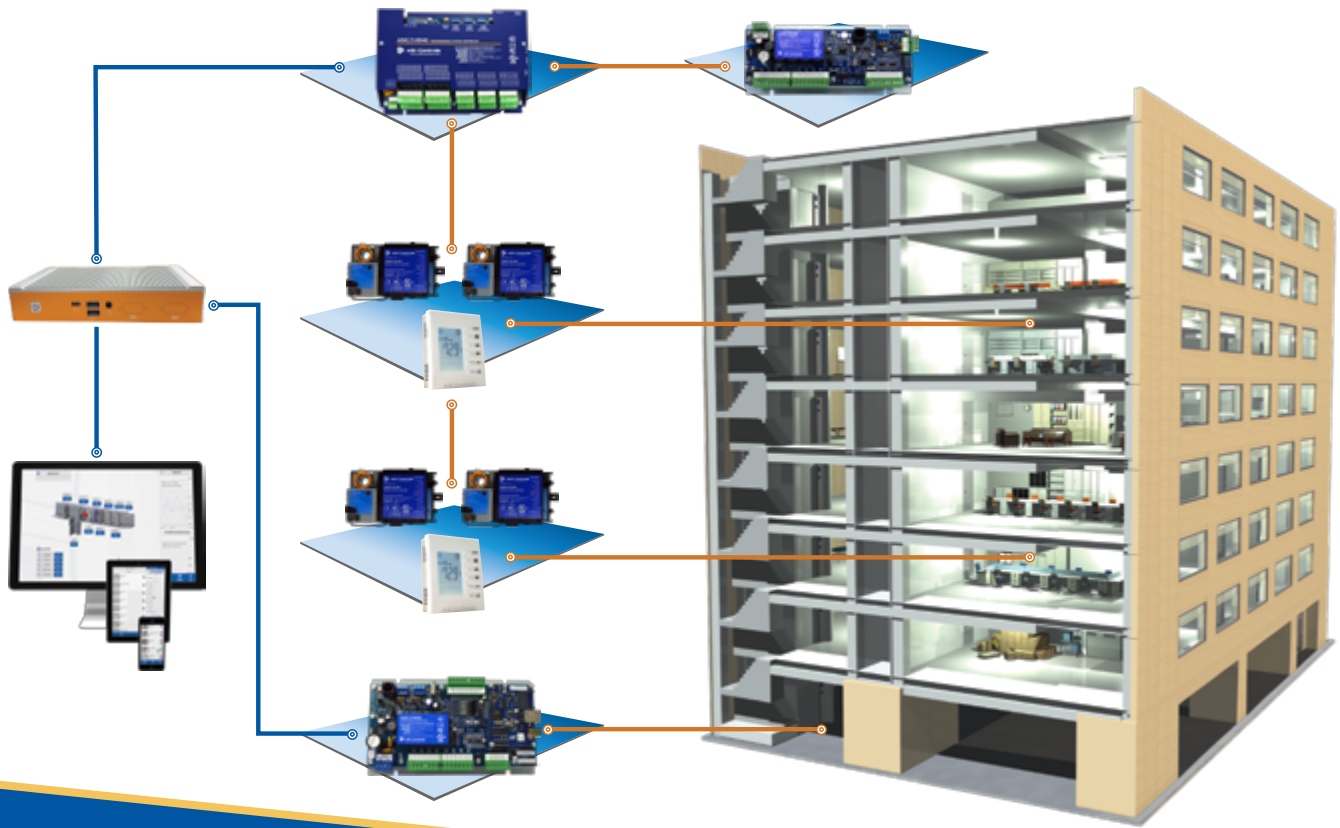


### COMMITTED TO OUR CLIENTS' SUCCESS

Create project plans that leave a huge impression on your clients with industry-leading support from a team of experts who have years of field experience

# Total HVAC Controls Solutions

ASI offers BACnet™ BTL-certified control systems for any size project



ASI features a complete line of BACnet BTL-certified controllers, including B-BC freely programmable devices for network, supervisory, AHU, equipment and central plant control applications, and B-ASC unitary devices with selectable personalities for VAV, package unit, heat pump, fan coil and similar applications. ASIC/3 BTL B-BC certified controllers offer an optional Modbus™ RTU interface on the local bus while talking BACnet on the system bus.

ASI Controls focuses on networked HVAC control systems which seamlessly manage energy usage to lower facility and equipment operating costs. ASI controllers provide built-in demand limiting and

load shedding capabilities, an optimum start algorithm, control of VFDs and other devices, and other functionality enabling building Energy Management Systems to optimize environmental conditions and energy costs.

The innovative ASI IntelliFront™ front end provides a consistent interface for mobile, tablet and desktop users with an OpenAPI and full Haystack support. Additional front end solutions include JASIC Web Supervisor, powered by Niagara, and legacy ASI WebLink with OPC connectivity.





# ASIC/3 Programmable Controllers

Reliable, rugged and cost-effective BACnet™ building controllers designed to meet a wide range of energy management and automation specifications

- BACnet™ BTL B-BC certified
- Object-based programming
- Support for up to 2 I/O Expanders
- IP addressable, scalable network options
- Native energy management features
- 100MB Ethernet
- BACnet-IP to MS/TP routing
- WiFi capable

## ASIC/3-9540



- 16 Universal Inputs, expandable to 32
- 16 Binary Relay Outputs, expandable to 32
- 8 Analog Outputs, expandable to 16

[View Datasheet](#)

## ASIC/3-9520



- 8 Universal Inputs, expandable to 24
- 8 Binary Relay Outputs, expandable to 24
- 4 Analog Outputs, expandable to 12

[View Datasheet](#)

Configuration and graphical programming stored on board in non-compiled, persistent format.

## I/O Expansion Module

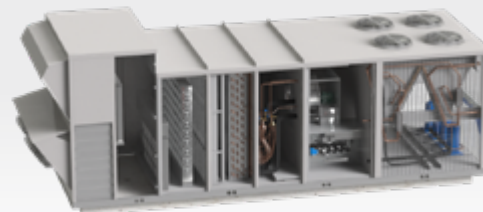


- Expands I/O on ASIC/3 devices
- 8 Universal Inputs
- 8 Binary Relay Outputs
- 4 Analog Outputs
- USB powered

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**PERFORMANCE & RELIABILITY FOR CRITICAL, HIGH POINT DENSITY APPLICATIONS**

## ASIC/3-6115 Programmable VAV



- Small footprint, but fully-programmable
- 8 Universal Inputs
- 5 Binary Triac Output
- 2 Analog Outputs
- Object-based programming
- Up to 2 on board airflow sensors

[View Datasheet](#)

Fully programmable controller onboard airflow sensor(s) for VAV or Dual-Duct applications with or without integrated Belimo actuator; for new and retrofit applications.

## ASIC/1 Pre-Programmed Terminal Unit Controllers

BACnet™ BTL B-ASC certified pre-programmed terminal unit controllers with selectable personalities to control a wide variety of airflow and package unit applications. Sequences are stored on board in non-volatile memory and retained indefinitely during power outage.

### ASIC/1-6100



- Sequences for VAV, VVT, constant or intermittent fan, electric or hot water reheat
- Available with integrated Belimo actuator or on metal base for retrofit applications
- Supports BACnet™ or ASI legacy protocols
- Damper position feedback option

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### ASIC/1-8100



- Sequences for Rooftop AC, Heat Pump, Fan Coil and other common applications
- 8 Form C Relay Outputs, 8 Universal Inputs, 2 Analog Outputs
- Supports BACnet™ or ASI legacy protocols
- Economizer and CO2 options

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# IntelliFRONT

Available exclusively from **ASI CONTROLS**

The ASI IntelliFront building automation platform provides advanced innovative features using open, responsive technologies. Available exclusively from ASI Controls, IntelliFront provides cutting edge features like Haystack tagging, RESTful API and data modeling—working seamlessly with ASI Controls controllers and accessories makes deploying powerful front-end solutions incredibly fast and easy.



- ▶ Intelligent tools for faster application development
- ▶ Leverage Haystack tagging and secure RESTful API
- ▶ Can be hosted on a server or in the cloud
- ▶ Simple integration with legacy ASI hardware and existing BACnet devices
- ▶ Unprecedented solution customization with scalable, flexible architecture

[Learn More](#)

**IntelliFRONT™ creates a seamless user experience across mobile, tablet, and desktop devices**

## FOR SYSTEM INTEGRATORS

- ▶ Leading-edge software that can help sell jobs and deliver more value to customers
- ▶ Ready for integration with BACnet™ and ASI legacy connectors
- ▶ Built-in technology and automation that deliver amazing solutions quickly and easily

## FOR END-USERS

- ▶ Easy access to current status and historical data for technicians or property managers
- ▶ Designed for the ground up for mobile users
- ▶ Robust and powerful monitoring and diagnostic tools for facility personnel

# JASIC-8000

## Embedded IoT Controller and Server Platform

- ▶ HTML5 graphical front end
- ▶ Two Ethernet ports
- ▶ USB & isolated RS-485 ports
- ▶ ASI configuration module with air balancing & labor saving features
- ▶ BACnet™, LonWorks™, Modbus & legacy systems interoperability
- ▶ Built-in web server for browser-based configuration



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### OPEN INTEROPERABILITY

The JASIC-8000 is a compact, embedded IoT (Internet of Things) controller and server platform for connecting multiple and diverse devices and sub-systems. With Internet connectivity and web serving capability, the JASIC-8000 controller provides integrated control, supervision, data logging, alarming, scheduling and network management. It streams data and rich graphical displays to a standard web browser via an Ethernet or wireless LAN, or remotely over the Internet.

The JASIC-8000 embedded web server controller is powered by the Niagara® Framework, which offers the widest possible range of interoperability options along with analytics, Edge control and other innovative features. In larger facilities, multi-building applications and large-scale control system integrations, Niagara 4 Supervisors JASIC-8000 controllers can be integrated to JASIC Web Supervisor software to capture real-time and historical data, alarms, scheduling, overrides and other BAS features in a single, unified application.



# HMIs, BACnet™ Communicating Thermostats

Building-wide solutions designed to integrate with modern and legacy controls products from a spectrum of suppliers.

## ASI IntelliFront Appliance



- Embedded web server for remote monitoring and configuration
- Windows Remote Desktop access
- 8 GB RAM (DDR3; 1600 MHz)
- Industrial grade, fanless 64 GB SSD drive
- Licensed IntelliFront software and configuration tools pre-loaded

[View Datasheet](#)

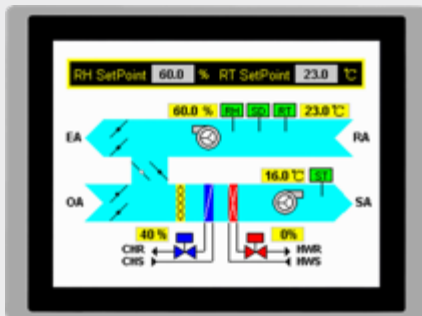
## BACiQ Thermostats



- Fan coil, Packaged AC, and Heat Pump versions available
- BACnet™ B-ASC certified
- Large back-lit LCD display
- Simple button-based configuration
- User adjust and after-hours push button
- Wireless (WiFi) models available

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## DAK Color Touchscreen HMIs



- 4.3", 7", and 10.1" sizes
- Ethernet and serial communication
- 65,000+ colors, TFT, IP65 rating
- Password protection
- Data logging
- Alarms

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# IoT Ready Wireless Networking

ASI IntelliFi BACnet wireless network solutions save time and reduce labor costs for system installation and setup

The ASI IntelliFi is a plug and play WiFi adapter that adds wireless networking connectivity to ASIC/3 BACnet BTL B-BC controllers. Using the proven infrastructure of IEEE 802.11 WiFi networks, the ASI IntelliFi adapter offers robust WiFi connectivity, reducing labor and materials costs to network a control system.

The RF transceiver is housed in a NEMA-rated rugged polycarbonate enclosure to withstand the rigors of commercial or industrial building environments, including dust and water spray. It can be mounted in outdoor locations to facilitate short range communications between buildings. A three-inch omni-directional antenna can tilt and rotate to provide broad 360-degree coverage.

The IntelliFi ships with a USB-A cable (six feet) which provides communication and power when plugged into an ASIC/3 controller USB port. Longer cables can be used, up to a

maximum of 16 ft. The IntelliFi WiFi adapter is easily configured using ASI Visual Expert configuration software and can join existing 802.11b/g/n networks.

Contact our sales team to learn more about the ASI IntelliFi WiFi adapter.

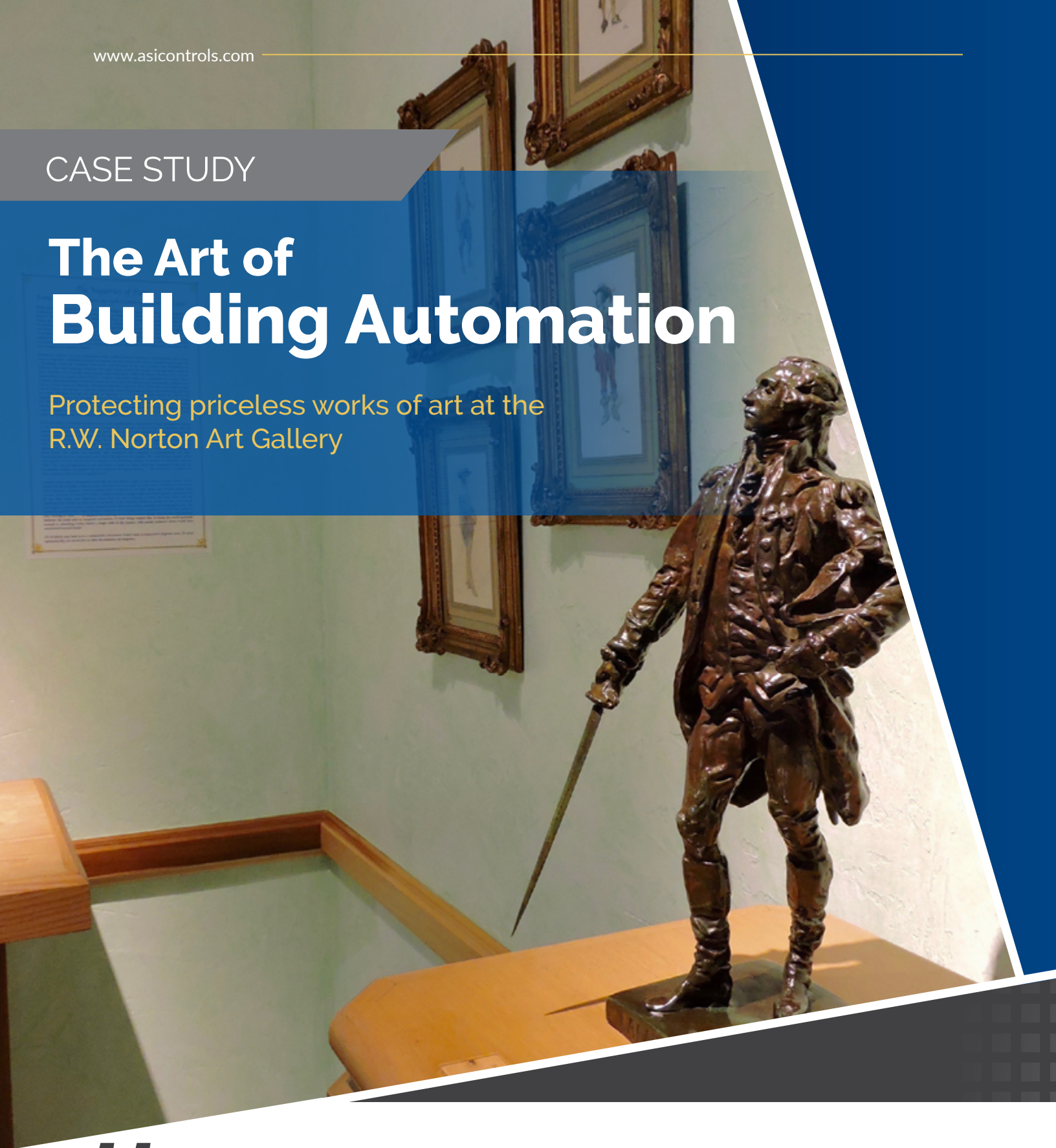
[Learn More](#)



## CASE STUDY

# The Art of Building Automation

Protecting priceless works of art at the R.W. Norton Art Gallery



“

The system has saved us some money, and is much easier to control now.

— Taylor Devers, Facilities Manager

”



## It's challenging to protect priceless art in a climate with chilly winters, hot summers and high humidity.

The R.W. Norton Art Gallery in Shreveport, Louisiana presented a unique problem of regulating environmental conditions to precise specifications.

Maintaining consistent temperature and RH within specific ranges is vital to the preservation of art. Small repeated changes in RH and temperature can stress the artwork as substances such as pigment, clay, and fabric adjust independently to environmental changes. Over time, environmental swings in the gallery could inflict irreparable damage to the gallery's precious collection.

The original core section of the museum was built in 1959 with what was then a state-of-the-art pneumatic control system. As it became increasingly difficult to control the internal environment with the facility's antiquated HVAC systems, management turned to local system integrator PC Automation. They chose an ASI digital controls system for its reliability and superior performance in stabilizing and optimizing space conditioning.

The solution included variable frequency drives (VFDs), which smoothed flow surges,

dampened swings, and reduced pressure differentials. The VFDs also added value to the system through energy cost savings, reduced motor wear and extended equipment life.

PC Automation also implemented an ASI Controls front end to track both the outdoor and indoor conditions and adjust the programming whenever needed. Fine tuning created cost savings by allowing the VFD's to run the motors below 100% which reduced energy usage. After reviewing the archive of temperature and RH data and seeing the benefits of energy cost savings in areas controlled by the new system, it was an easy decision for Norton management to direct PC Automation to extend the ASI Controls energy management and control system to the gallery's newer north and south wings.

The Norton Art Gallery's new system provides a flexible, easy-to-control and efficient energy management system that saves money and time while ensuring a bright and beautiful future for its precious works of art.



24 exhibition  
rooms



Over 400 works  
on display

**“The system simply does what they said it was going to do, and in this day and age, that means a lot.”**

- Lewis Norton, Owner  
R.W. Norton Art Gallery

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