

# THE **resource**

THE OFFICIAL QUARTERLY NEWSLETTER OF RELIABLE CONTROLS® CORPORATION



## **MACH Stat**™

Better By Design.



MACH-Stat™

MACH-Stat-ND™



**T**he Reliable Controls® MACH-Stat™ is an exciting new BACnet® Advanced Application Controller unlike any other control product on the market today. The MACH-Stat™ is a fully programmable, networkable, 8 in x 8 out, wall-mounted controller that allows complete customization of the menu display and sequence of operation, and provides an onboard data acquisition, alarming and passcode security - all in a sleek, low-profile footprint that's priced to please.

MACH-Stat™ ...  
more than just a thermostat.

## Better Functionality

- 8 fully-programmable outputs
- 9 inputs, including optional humidity, setpoint slider, occupancy, CO<sub>2</sub>, and support for custom units
- 8 Runtime Logs, three 6-point Trend Logs, and 4 Control-BASIC programs
- Expanded choice of icons for a wide variety of HVAC applications
- Display and edit BACnet® values

## Better Flexibility

- Individual output modules allow universal or relay configuration to suit the application
- 7 general-purpose Vision Groups, each containing 6 user-defined points for display and edit
- Application Vision Group allows customization of the primary user screen per application
- Selectable icons and layout result in the look and feel of traditional programmable thermostat
- Available with or without LCD

## Better Accessibility

- SMART-Net™ RJ-11 jacks on the back and bottom allow for convenient connection from two places
- Detachable backplate makes the unit easier to install and allows for pre-mounting and pre-wiring during construction
- Five rubber buttons make navigation quick and intuitive
- Full read/write support of data as a client or a server



Better By Design

The MACH-Stat™ and MACH-Stat-ND™ both feature our industry-best 5-year warranty.

**NEW PRODUCTS**

## SMART-Sensor™ LCD

### OCCUPANCY

The new SMART-Sensor™ LCD with occupancy sensor debuted at the 2006 AHR Expo in Chicago and was of immediate interest to dealers and customers alike. The SSL-OC offers the same feature-rich functionality of the industry-recognized SMART-Sensor™ LCD while adding the robust power of a passive infrared occupancy sensor.

The SSL-OC is scheduled for delivery at the end of Q2, 2006.



Actual Size



## SPACE-Sensor™ Temperature

A new SPACE-Sensor™ Temperature outfitted with up/down, occupancy, and 20k slider is now available. The SST-UD-OC-S has filled a niche application for a room temperature sensor, with a setpoint slider, and On/Off lighting control and occupancy sensing all in one package.

## INTERNET ACCESS - HAVE IT YOUR WAY

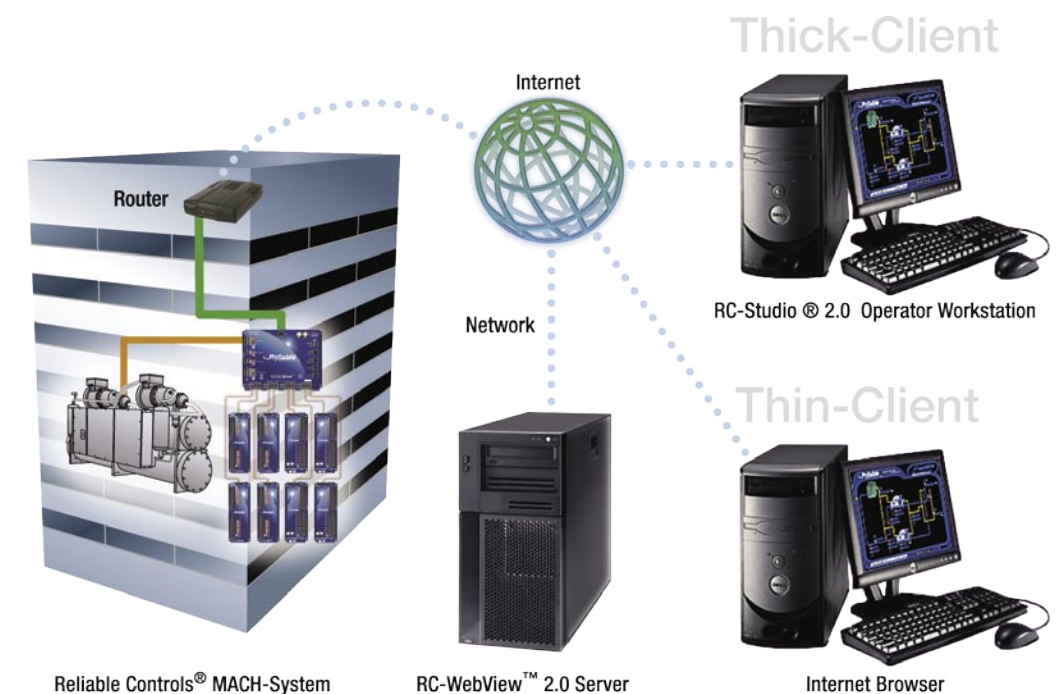
Internet access to buildings does not necessarily require a web-server thin-client architecture like RC-Webview™. Reliable Controls® also provides a connection to a system over the internet using RC-Studio®.



**Thick-Client** solutions with RC-Studio® are the most economical if only a few people need internet access for day-to-day operations, or if internet access is preferred when making fundamental changes to the system (create/delete points, back up the network).



**Thin-Client** solutions with RC-WebView™ are the most economical solution if there are many people that need internet access to the system for day-to-day operations.



Consider both forms of internet access and feel free to consult with your local Reliable Controls® Authorized Dealer to help choose the best solution to suit your needs.






**REGION XI**
**CHAPTERS REGIONAL CONFERENCE**
**May 10–13, Victoria, British Columbia, Canada**

Reliable Controls® is pleased to be hosting this year's Chapters Regional Conference (CRC) for Region 11 at the Laurel Point Inn, overlooking Victoria's beautiful Inner Harbour. ([www.laurelpoint.com](http://www.laurelpoint.com))

In addition to the conference, plan to attend the three-hour technical session whose theme this year will be *Moving Building Automation Systems out of the Boiler Room and into the Boardroom*.

"Conventional building automation is being transformed by three mega-forces which will totally restructure building automation; factory-mounted open protocol communicating controllers, IP connectivity, and wireless. Although ASHRAE'S open protocol BACnet is embodied in both open protocol and IP connectivity, there are other forces that are shaping our future. Industry automation leaders will discuss these forces."

Visit [www.ashrae.bc.ca/Vi](http://www.ashrae.bc.ca/Vi) for a detailed agenda, list of key contacts, recreational activities, and most importantly, to register.

All registrants must register online regardless of payment method. Each person coming to the CRC (member, spouse/companion, etc.) needs to register online separately. Please complete a submission form for each person attending the conference.

Register by April 5<sup>th</sup> to qualify for the Early Bird Draw and a chance to win 3 nights FREE accommodation at the CRC.

[www.ashrae.bc.ca/Vi](http://www.ashrae.bc.ca/Vi)
**Reliable @ 2006 AHR Expo**

More than 57,000 HVACR professionals filled the aisles and booths at the 76<sup>th</sup> AHR Expo in Chicago, January 23–25, making the 2006 AHR Expo the world's largest HVACR event. Driven by unprecedented association support, new show features, and a healthy economy, the 2006 AHR Expo set new records for exhibitors (1,981), square footage (411,175) and number of international exhibitors (400). According to show management, a total of 57,673 HVACR professionals (36,891 visitors and 20,782 exhibitor personnel) registered for the 2006 AHR Expo.

The 2007 AHR Expo will be held in Dallas, Texas, January 29–31, while the 2008 AHR Expo will be held in New York City, New York, January 22–24.


**THE WORLD'S OPEN DOOR TO INTEROPERABILITY**

The BACnet Manufacturers Association (BMA) and the BACnet Interest Group - North America (BIG-NA) have recently joined forces to become **BACnet International** - the definitive source for BACnet® activities and information, reaching a greater audience around the world. Now, people that are passionate about controls, including manufacturers, end-users, consulting engineers, contractors and institutions will have the freedom to join a single, consolidated organization committed to influencing the direction of the international standard for building automation and control networks. Get directly involved and benefit from this international open door to interoperability. Go to [www.bacnetinternational.org](http://www.bacnetinternational.org) and become a member.

Get in on the ground floor.

**Join Today!**

[www.bacnetinternational.org](http://www.bacnetinternational.org)



## US National Dealer Meeting

# San Antonio

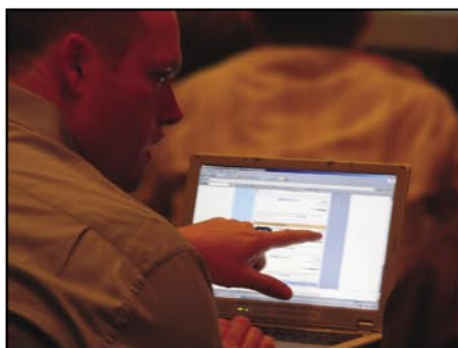
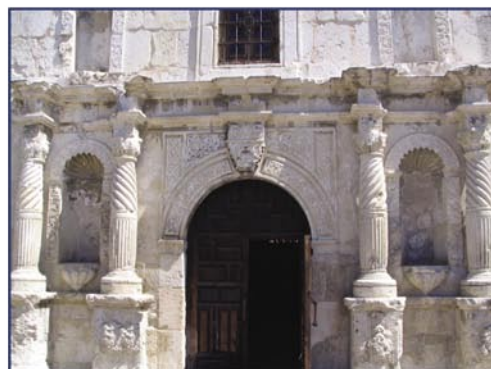
In March of 2006, Dealers from across the United States gathered in San Antonio, Texas for the US National Dealer Meeting. The event featured seminars and workshops, as well as an award ceremony to honour Dealer achievements in 2005.

Top honours went to *Environmatic Systems* of Grand Prairie, Texas who garnered the western Top Sales of the Year award and the national Dealer of the Year award in recognition and appreciation of their outstanding sales and performance. The eastern Top Sales of the Year award went to Maryland's *Pritchett Controls* in recognition and appreciation of their sales contribution to the eastern region.

The award for the western MVP of the Year was handed out to *American Mechanical Services* of Colorado in recognition and appreciation of excellence achieved in all aspects of business. The eastern MVP of the Year was awarded to *Energy Control Service* of Staten Island, New York, to recognize and appreciate their excellence achieved in all aspects of business.

*Pacific Air Control* walked away with the western Entrepreneur of the Year award for sustained new growth in the region. The eastern Entrepreneur of the Year award went to *Automated Climate Controls* of New Jersey in recognition and appreciation of their sustained new growth in the region.

Many thanks to all of the Dealers who attended.



## Trade Shows

Reliable Controls® will have a strong presence at the following trade shows:

2006 Niagara Summit - [www.niagarasummit.com](http://www.niagarasummit.com)



Dates: April 30 - May 2, 2006  
Venue: Saddlebrook Resort  
Location: Tampa, FL, USA

SPOA - [www.spoabc.com](http://www.spoabc.com)



Dates: June 6-7, 2006  
Venue: Penticton Conference Centre  
Location: Penticton, BC, Canada

2006 ARBS Expo - [www.arbs.com](http://www.arbs.com)



Dates: August 14-16, 2006  
Venue: Sydney Convention & Exposition Centre  
Location: Sydney, NSW, Australia

2006 CHES Expo - [www.ches.org](http://www.ches.org)



Dates: September 17-19, 2006  
Venue: World Trade & Convention Centre  
Location: Halifax, NS, Canada

Venues have been announced for the 2007 & 2008 AHR Expos.



Dallas, Texas  
Dallas Convention Center  
January 29-31, 2007

2007



New York City, New York  
Javits Convention Center  
January 22-24, 2008

2008



## HOME RENO



The plans for the renovation of the Reliable Controls® headquarters are well underway. While the final interior floorplans are cementing into shape, the buildings exterior is also being prepped for a facelift. Under the direction of the firm of D'Ambrosio Architecture + Urbanism, designs are evolving to transform the exterior into a modern statement that reflects the company's commitment to green technology. Elements for inclusion are low-profile metallic sunshades and a greening of the exterior with the calculated use of crawling vines and concrete planters.

**D'AMBROSIO**  
architecture + urbanism

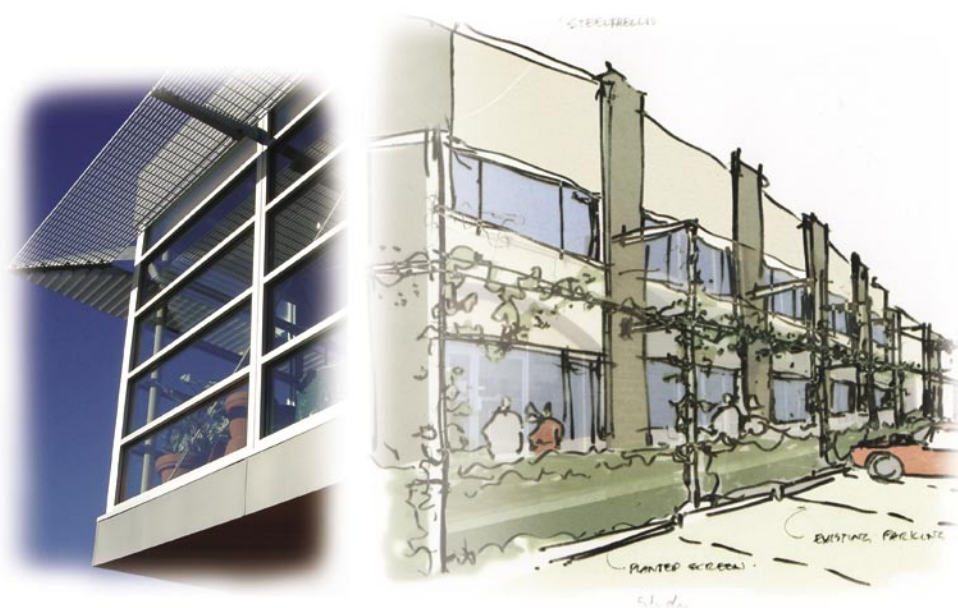


Photo of the Oak Bay Cycle Shop courtesy of D'Ambrosio Architecture + Urbanism.



Saudi Arabia



Ireland



Indonesia



Mexico



China



Uruguay



## Local Control, Global Presence

The MACH-Global™ building controller is a powerful, central-point BTL-listed controller designed to support simultaneous multiple BACnet® LAN communication technologies. This flexible and powerful controller is the hub of the Reliable Controls® MACH-System and has brought reliable comfort to building occupants on a truly global scale.



El Salvador



Taiwan



Australia



Puerto Rico



Malaysia



South Korea



# Project profile

## MidAmerica St. Louis Airport



*MidAmerica St. Louis Airport is located in southern Illinois, 25 miles east of downtown St. Louis, Missouri. Initially opened in 1997, MidAmerica St. Louis Airport operates as a regional aviation hub, servicing both passenger and cargo needs.*

As of 2003, the system installed at the MidAmerica St. Louis Airport consisted of 7 Air Handling Units (AHUs), 1 chiller, 4 pulse boilers, 1 Make-up Air Unit (MAU) with a desiccant heat wheel, heat pipes, chilled water coil, and gas heat. The Automation Solutions Group retrofit of the facility was conducted between 2003 and 2005, and over the course of three phases, controllers associated with the MAU, chiller, boilers, and AHUs were replaced. The last phase of the retrofit featured the integration of a new AHU.

Prior to the retrofit, the system installed at the MidAmerica St. Louis Airport ran 24/7, running up operating costs and causing unnecessary wear and tear on the equipment. With a Reliable Controls® MACH-System installed at the facility, the building equipment currently runs only when required. Another benefit of installing the system was that Automation Solutions Group was able to provide the client with an intuitive graphical user interface that allowed the building operators to see for the first time exactly how their MAU was designed to work. Using the facility's existing Local Area Network, building operators now benefit from real-time data acquisition, near-instantaneous feedback on performance, and the ability to conduct rapid diagnostics.



MACH2™



ETHER-Link™ Portal

## TRANSPORTATION

### Project Name:

MidAmerica St. Louis Airport

### Location:

Belleville, Illinois, USA

### Market Segment:

Transportation

### Project Type:

Chiller, Boiler, HVAC

### Installation:

Retrofit

### Total Area:

4,925 m2 (53,000 ft²)

### Equipment Installed:

1 ETHER-Link™  
10 MACH1™  
1 MACH2™

### Network:

Reliable

### Total System Points:

150 points

### Consultant:

Design-Build

### Reliable Controls® Dealer:

**AUTOMATION SOLUTIONS GROUP**

**Reliable®**  
controls

...people and technology  
you can rely on™

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