



**Reliable**<sup>®</sup>  
controls

Internet-connected  
**BUILDING CONTROLS**

people & technology  
you can rely on™

Climate change is one of the top social, political, and commercial issues of our time. Let our Internet-connected building controls help you choose a green path that's right for you.



Reliable Controls HQ LEED Platinum certified building

## Solutions for sustainability



Our building controls are designed to be simple, flexible, and sustainable. Our hardware controllers are intended to provide functional value for the life of your building.

Over one-third of all LEED Platinum certified buildings in British Columbia depend on Reliable Controls.



According to the US Green Building Council, CO<sub>2</sub> emissions from buildings are predicted to grow faster than any other sector. Our Internet-connected building controls can help to reduce the environmental footprint of your building for the benefit of future generations.



Our dynamic team develops innovative and dependable building controls that helps you to operate your facility in an environmentally responsible way.

We take great care in evaluating and implementing new technologies, and have earned a sterling reputation for outstanding customer service.



# People & technology you can rely on™

From front to rear:  
Roland Laird - President and Founder  
Tom Zabab - Executive VP Sales & Marketing  
Juliana Yu - VP Finance & Administration  
James Puritch - VP Research & Development  
Vince Palmer - VP Operations



We believe the road to the best solution is paved with open and honest dialogue. As a result, we maintain long-term relationships with the most satisfied customers in the industry.

Since 1986, we have empowered building operators and property managers to effectively take control of their facilities with our simple, flexible, and sustainable control hardware and software. Each successive generation of products we release maintains full compatibility with prior systems.



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Enduring designs achieve the optimum balance between form and function. We begin by surveying our Authorized Dealer network for new ideas and improvements. Then we carefully evaluate the performance and longevity of new technologies. Finally, we engineer the resulting concepts into real-world solutions that are practical and inspiring.



**45° removable terminal blocks**  
make wiring easy



**Rising cage**  
provides superior wire termination



**Circuit protection**  
provides over-voltage and short-circuit protection on inputs and outputs



**Proportional LEDs**  
provide visual feedback on inputs and outputs



**H/O/A switches**  
with software feedback makes overrides simple



Hallmarks of Reliable Controls hardware

## Better by design

The hallmarks of our products are easy to see. They include modular universal I/O with proportional status LEDs, removable 45 degree terminal blocks, and HOA switches with feedback.

Reliable Controls maintains ISO 9001 and 14001 certifications, demonstrating our commitment to the quality and environmental processes that speak to customer satisfaction and sustainability.

We stand behind the products we manufacture. Reliable Controls proudly offers an industry-recognized 5-Year Warranty on all controllers.



**ISO  
9001  
14001**  
QUALITY  
ENVIRONMENTAL  
ASSURANCE

**Reliable<sup>®</sup>**  
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We offer a complete controls system that easily interconnects with intelligent building technology. Our products communicate using robust, industry-standard networks. The system grows with you, offering the flexibility and scalability to serve multiple, operators simultaneous from numerous points of secure access.



RC-Studio (B-AWS) on laptop



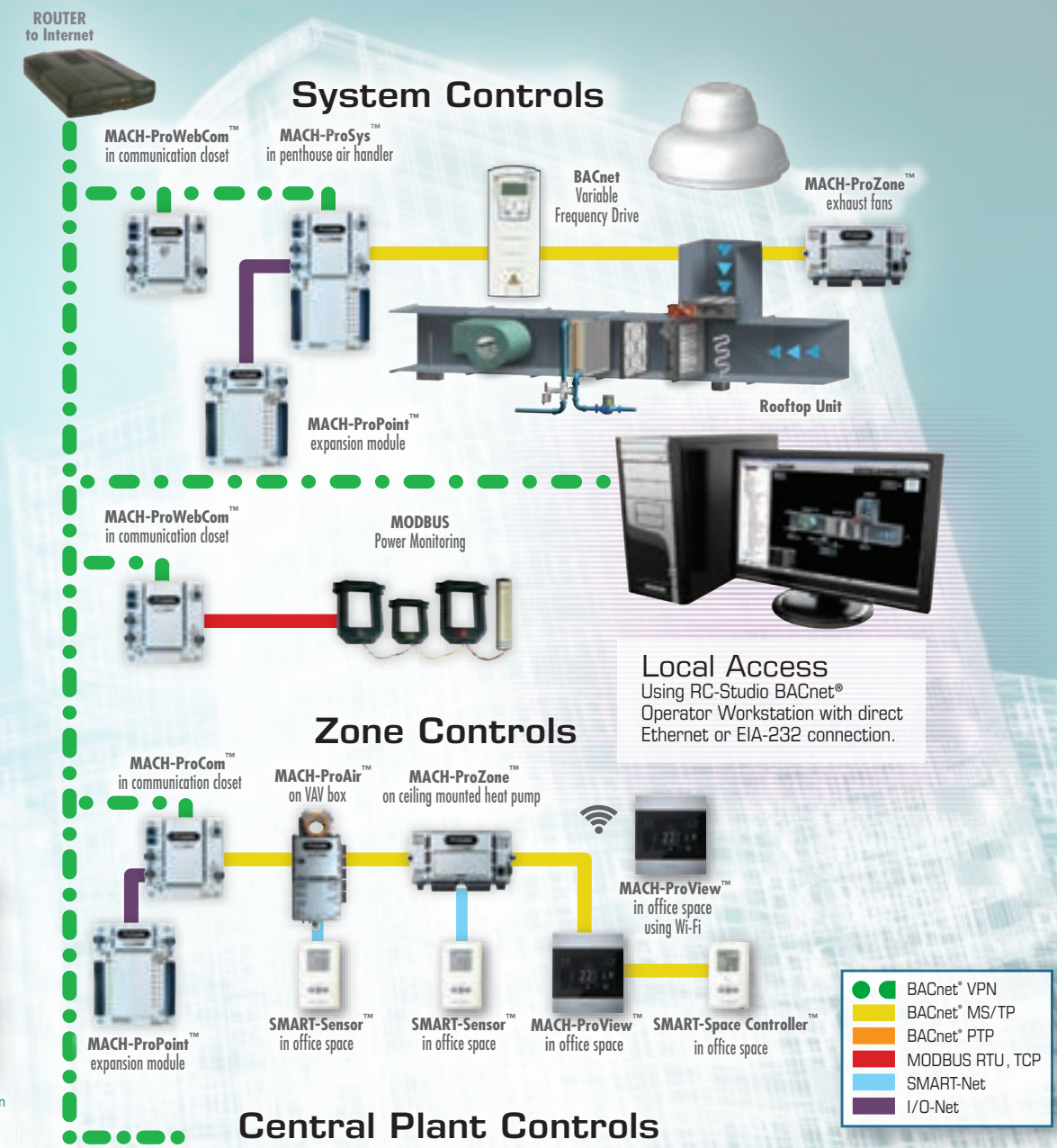
RC-WebView or MACH-ProWeb user interface on tablet



myControl app on smart phone

**Internet-connectivity**  
Monitor your buildings from anywhere in the world using RC-Studio a BACnet Advanced Operator Workstation (B-AWS), any standard web browser connected to RC-WebView, a MACH-ProWeb controller, or the myControl app on a mobile device.

**Internet security**  
Simplify and improve the security of your Internet configuration using RC-RemoteAccess, our IT-friendly, 256-bit encrypted BACnet Virtual Private Network (B/VPN) software.



# Network flexibility

Our products support BACnet Internet Protocol, Ethernet, Master/Slave Token Passing, and Point-to-Point communications, as well as Modbus RTU, TCP, SMART-Net, Simple Mail Transfer Protocol, and Simple Network Management Protocol.

Whether you have a small or large application, a single building or multiple buildings, our system has the flexibility to keep you connected.

The Building Automation and Control Networks protocol (BACnet) is the industry standard protocol for building controls ([www.bacnet.org](http://www.bacnet.org)). Every controller we manufacture contains a BACnet communication stack on board. This provides ideal flexibility when integrating building control components from multiple vendors.



It's good to have choices. Choose from a variety of control products that best fit your building environment.

Every controller we make is freely programmable, with a graphical user interface that is fully customizable by our Authorized Dealer, or the building operator.



**MACH-ProView™**  
System wide access and control with a customizable touch screen



**SMART-Space™ Controller**  
Convenient access and control with multi-sensor capability



**MACH-Pro1™**  
Mid-sized rooftop equipment or small mechanical room applications



**MACH-Pro2™**  
Large rooftop equipment or mid-sized mechanical room applications



**MACH-ProZone™**  
Ideal for advanced unitary control



**MACH-ProAir™**  
Flexible VAV control



**MACH-ProSys™**  
Large mechanical rooms, and multi-building applications



**MACH-ProWebCom™**  
High speed, Internet-enabled, expandable system controller and web server

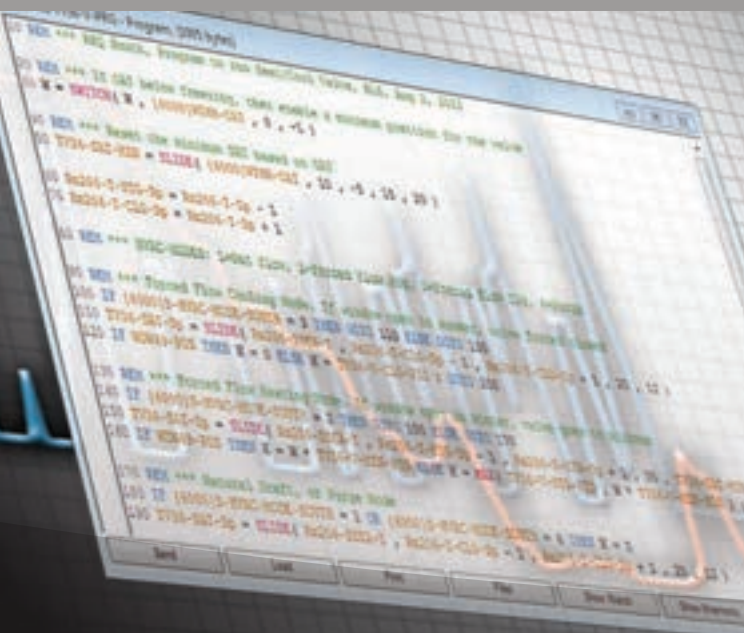
# Controlling environments



Each controller in our system has inputs for sensing and monitoring the environment, and outputs for controlling energy and comfort. All processing is completed onboard, and is executed with exceptional speed and reliability. All controllers ship with an industry-recognized 5 year warranty.

Communication is the key to achieving building intelligence. All our controllers support multiple protocols, including the industry standard BACnet® protocol. Look for the BACnet® Testing Laboratory mark on our products, and enjoy the confidence that comes with compliance to the world standard of interoperability.

Visit [www.bacnetinternational.net/btl](http://www.bacnetinternational.net/btl) to view a complete listing of our BTL certified products.



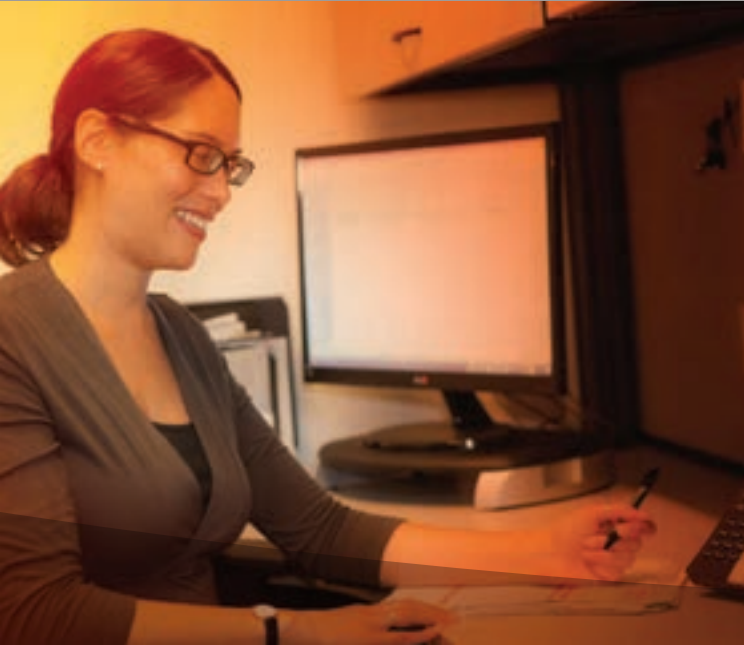
You can only control what you can measure!

We offer a wide range of wall-mounted temperature sensors for monitoring space conditions. Model options include a combination of humidity, carbon dioxide, and occupancy sensors, as well as a variety of setpoint adjustments and override options.



Sensors can be ordered in two colors: warm grey or white.

# Sensing change



All of our wall-mounted sensors measure space temperature using robust 10k ohm thermistors.

Occupants can conveniently adjust system parameters using setpoint buttons and sliders located directly on the space sensor. Occupancy sensing allows the control system to automatically detect the presence of a person in the space.

Our SMART-Sensor series offers an advanced level of user interface measuring temperature, humidity, CO<sub>2</sub>, and occupancy within a single device, without consuming inputs and outputs on the host controller.

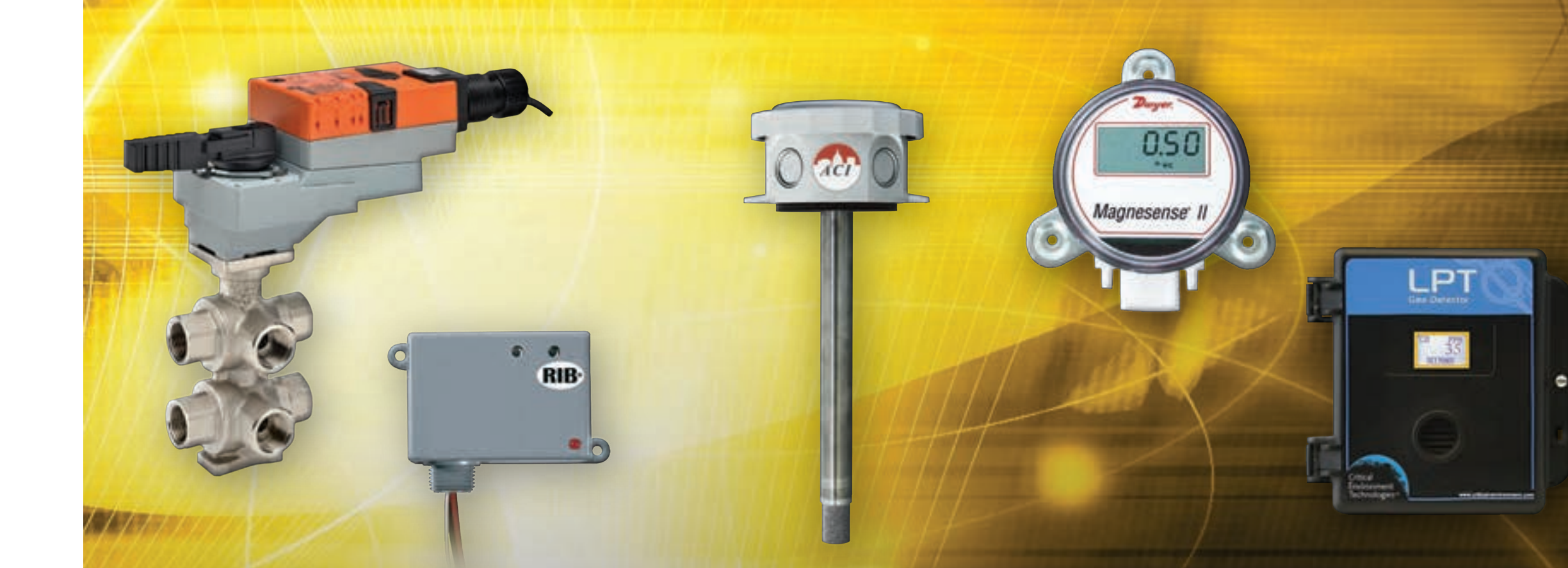
The SMART-Sensor EnOcean Accesspoint allows wireless and batteryless EnOcean integration into the MACH-System.



**enocean<sup>®</sup>alliance**  
Available in 315, 868, and 902 MHz

**Reliable<sup>®</sup>**  
controls

To complement your building automation system hardware, we have partnered with a group of excellent peripheral manufacturers who understand your need for accessible technical support, high product quality, and outstanding value for your dollar.



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controls  
Peripheral Partner

## Peripheral partners



A renown manufacturer and distributor of sensor technology for the Heating, Ventilation, and Air Conditioning (HVAC) Industry. ACI staff take pride in the products they build and believe customer service and performance are top priorities.



A global market leader in the development, production, and marketing of actuator solutions and control valves for heating, ventilation and air conditioning systems.



CET is a leading manufacturer for commercial and light industrial leak detection applications. The company is dedicated to designing, developing and servicing hazardous gas detection systems for a wide range of applications.



Dwyer holds over 650 technical patents for instrumentation, and that number grows every year. The company takes great pride in the integrity of their employees, who are passionate about the work they do, the products they develop, and the industries they serve.



Since 1969, Functional Devices has been providing high quality relay and power control products, that are ideal for a wide variety of building control applications.



WCW is dedicated to developing solutions that generate significant results for customers. The company provides comprehensive cable management solutions that save integrators time on projects from concept to completion.





Publish your building automation system and dashboards to the web quickly and easily with the first 3-in-1 device of its kind. The MACH-ProWeb combines a BTL-listed BACnet Building Controller (B-BC), a BTL-listed BACnet Operator Workstation (B-OWS), and a powerful web server, all in a single package with the installed footprint of a typical building controller.



MACH-ProWeb custom graphic interface



MACH-ProWeb energy dashboard



## Intuitive access



MACH-ProWeb customers also benefit from the intuitive access of our myControl app (shown left). Three simple, flexible, and familiar app views are available in five different color themes, for Android and iOS devices.

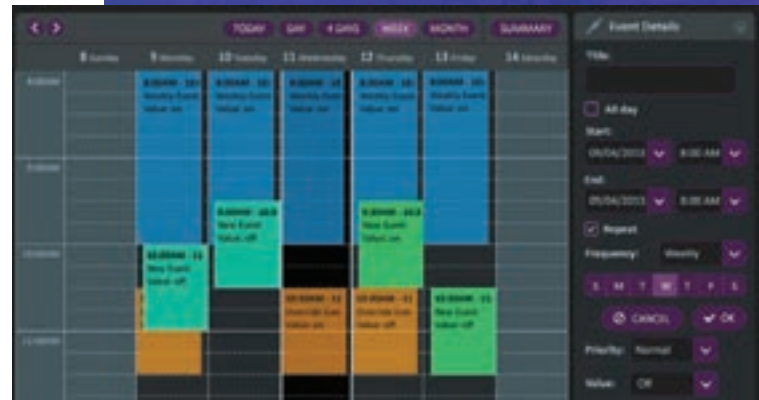
The MACH-ProWeb product line offers a 3-in-1 advanced level of design, which greatly reduces the workload of the IT department in your building.



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RC-WebView is a powerful, enterprise server solution that allows operators to command multiple BACnet Internet-connected buildings configured with System Groups, using a Single Sign-On (SSO).

Operators can access and edit BACnet Inputs, Outputs, Values, Schedules, Groups, Alarms, Trend Logs, and more.



Enterprise Schedule

Name	Username	Password	Role	Created	Modified
John Doe	john.doe	*****	Admin	2012-11-15 10:00:00	2012-11-15 10:00:00
Jane Smith	jane.smith	*****	Operator	2012-11-15 10:00:00	2012-11-15 10:00:00
Bob Brown	bob.brown	*****	Viewer	2012-11-15 10:00:00	2012-11-15 10:00:00
Charlie Green	charlie.green	*****	Admin	2012-11-15 10:00:00	2012-11-15 10:00:00
Diana White	diana.white	*****	Operator	2012-11-15 10:00:00	2012-11-15 10:00:00
Frank Black	frank.black	*****	Viewer	2012-11-15 10:00:00	2012-11-15 10:00:00
Grace Blue	grace.blue	*****	Admin	2012-11-15 10:00:00	2012-11-15 10:00:00
Henry Red	henry.red	*****	Operator	2012-11-15 10:00:00	2012-11-15 10:00:00
Ivy Yellow	ivy.yellow	*****	Viewer	2012-11-15 10:00:00	2012-11-15 10:00:00
Jack Purple	jack.purple	*****	Admin	2012-11-15 10:00:00	2012-11-15 10:00:00
Karen Orange	karen.orange	*****	Operator	2012-11-15 10:00:00	2012-11-15 10:00:00
Leo Silver	leo.silver	*****	Viewer	2012-11-15 10:00:00	2012-11-15 10:00:00
Mia Gold	mia.gold	*****	Admin	2012-11-15 10:00:00	2012-11-15 10:00:00
Noah Bronze	noah.bronze	*****	Operator	2012-11-15 10:00:00	2012-11-15 10:00:00
Olivia Copper	olivia.copper	*****	Viewer	2012-11-15 10:00:00	2012-11-15 10:00:00
Peter Iron	peter.iron	*****	Admin	2012-11-15 10:00:00	2012-11-15 10:00:00
Quinn Steel	quinn.steel	*****	Operator	2012-11-15 10:00:00	2012-11-15 10:00:00
Rachel Nickel	rachel.nickel	*****	Viewer	2012-11-15 10:00:00	2012-11-15 10:00:00
Sam Tin	sam.tin	*****	Admin	2012-11-15 10:00:00	2012-11-15 10:00:00
Tina Lead	tina.lead	*****	Operator	2012-11-15 10:00:00	2012-11-15 10:00:00
Uma Zinc	uma.zinc	*****	Viewer	2012-11-15 10:00:00	2012-11-15 10:00:00
Victor Cadmium	victor.cadmium	*****	Admin	2012-11-15 10:00:00	2012-11-15 10:00:00
Wendy Mercury	wendy.mercury	*****	Operator	2012-11-15 10:00:00	2012-11-15 10:00:00
Xavier Silver	xavier.silver	*****	Viewer	2012-11-15 10:00:00	2012-11-15 10:00:00
Yara Gold	yara.gold	*****	Admin	2012-11-15 10:00:00	2012-11-15 10:00:00
Zoe Platinum	zoe.platinum	*****	Operator	2012-11-15 10:00:00	2012-11-15 10:00:00

User Configuration



Client view

## Enterprise scalability

With RC-WebView,® you can enjoy the convenience of using a standard Internet browser to access your building controls from anywhere in the world on a 24/7 basis.

Configure a complete range of schedules using the Enterprise Schedule feature in RC-WebView, from district or campus wide events to individual pieces of equipment.

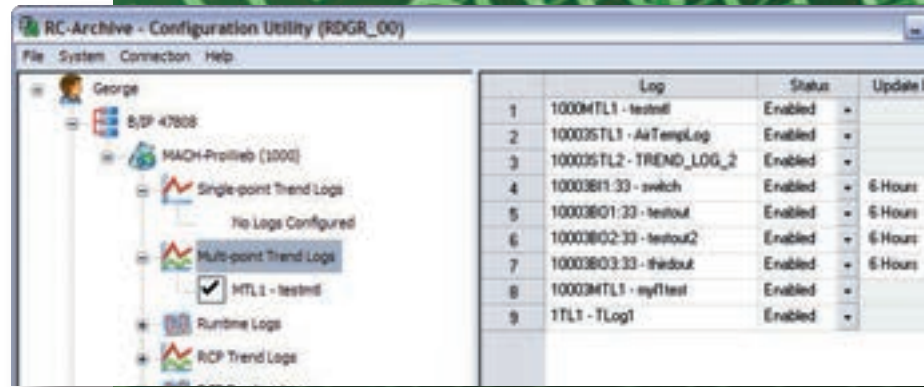
With secure user configuration, you can set up multiple users on Active Directory to simultaneously access and view graphics, trend, and runtime data, and if permitted, change setpoints, edit schedules, and acknowledge alarms.

All logins and changes are automatically recorded using the audit trail feature that ships standard with RC-WebView.®.

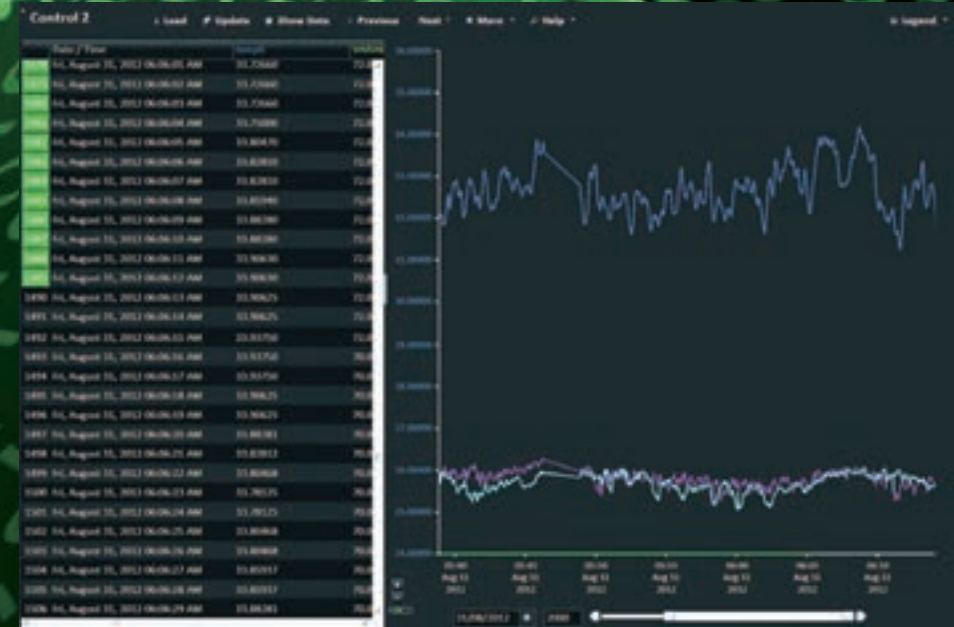
Enjoy a complimentary 12-month updates subscription, and conveniently renew your subscription after the renewal date without penalty.



Access to long-term data is an essential component of managing your sustainable building. Use this secure and scalable application to rigorously archive your building's Trend and Runtime Log data, from any BACnet Internet-connected building.



RC-Archive Configuration Utility



Trend Log accessed through MACH-ProWeb controller



RC-Studio Trend Log Viewer



**RCArchive**<sup>®</sup>

## Continuous data archiving



Based on the industry standard SQL database, we have created an incredibly efficient and dependable server application that provides secure Trend Log and Runtime Log data storage over a prolonged period of time.

Operators can easily link the RC-Archive database to RC-Studio, and then seamlessly graph all historical data using RC-Studio, RC-WebView and the MACH-ProWeb user interface.

The data from RC-Archive is used to chart your facility's energy and environmental performance using RC-Reporter, our building analytics software.

Enjoy a complimentary 12-month updates subscription, and conveniently renew your subscription after the renewal date without penalty.

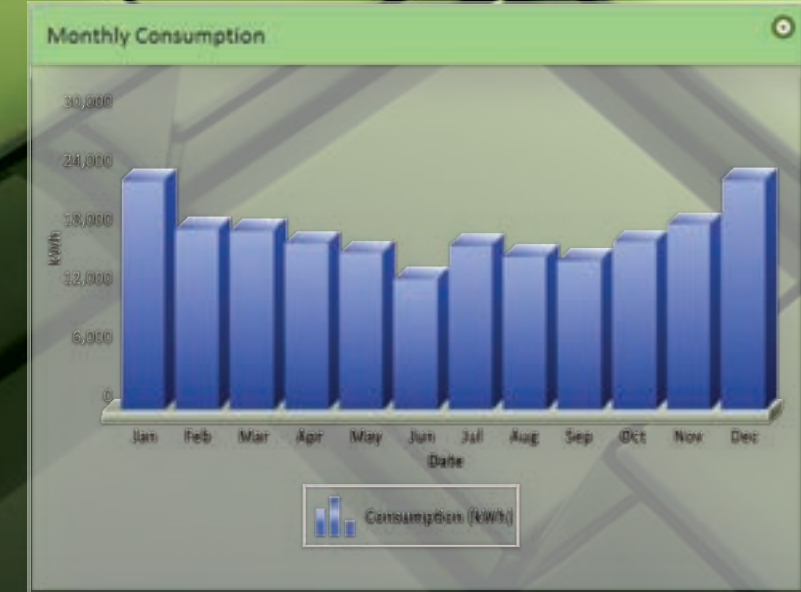


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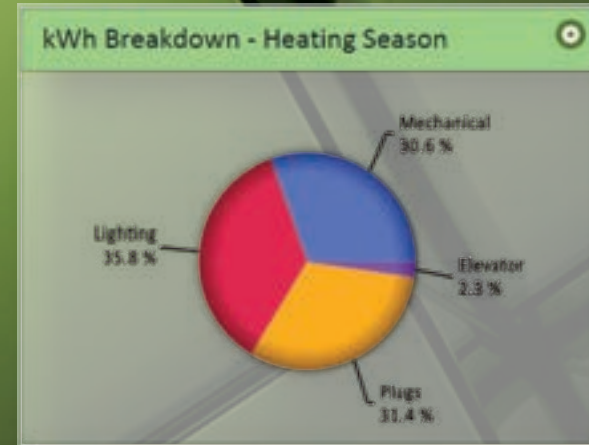
Extract intelligence from your archived building data and make informed operational decisions. This fully customizable, server-based application allows you to analyze the Trend and Runtime Log data from any BACnet Internet-connected building, and generate professional performance reports, quickly and accurately.



Manage points menu



Date Range Component



Contribution Component







# RCReporter®

## Energy accountability



### Charting components include:

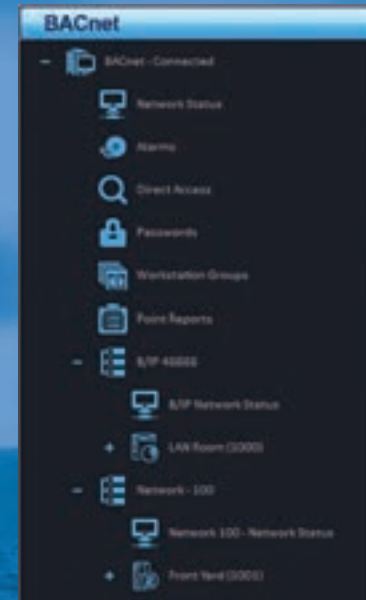
-  **Date Range** - plots building performance data over a single time period
-  **Profile** - compares data to a target over multiple time ranges and identifies patterns and exceptions
-  **Contribution** - displays the breakdown within an overall metric
-  **Correlation** - identifies how one data point influences others using a scatter diagram

Reports can be scheduled to run at defined intervals, and then automatically emailed to a list of users.

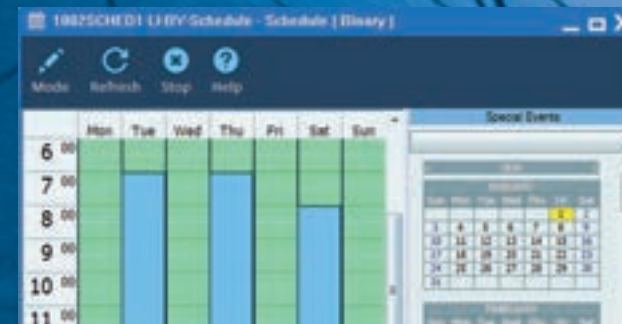
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As a building operator, you know workstation software is the single most important tool in your possession. Once logged in, you need to quickly see all the important details of your system. When changes are required, you must have the freedom to move in any direction and respond intuitively, creatively, and with ease.



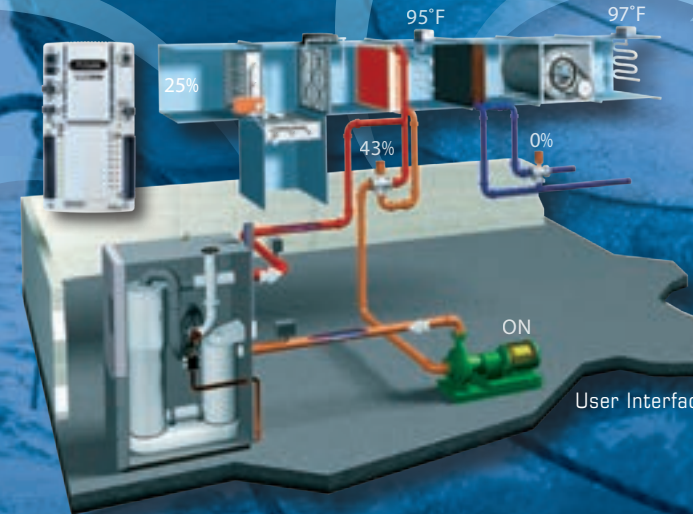
System Tree Panel



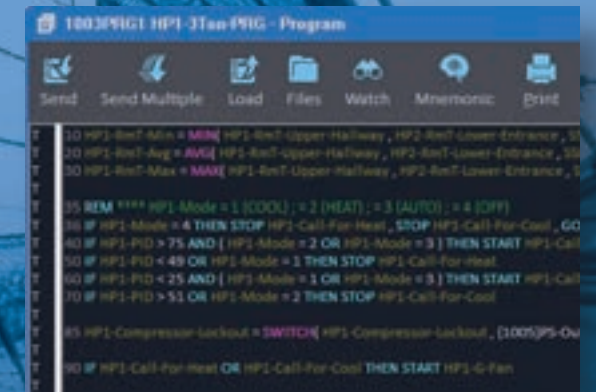
Weekly Schedule



Runtime Log



User Interface



\*Control-BASIC



# RCStudio™

## Advanced workstation solutions

\* Control-BASIC editing only possible with Reliable Controls hardware.

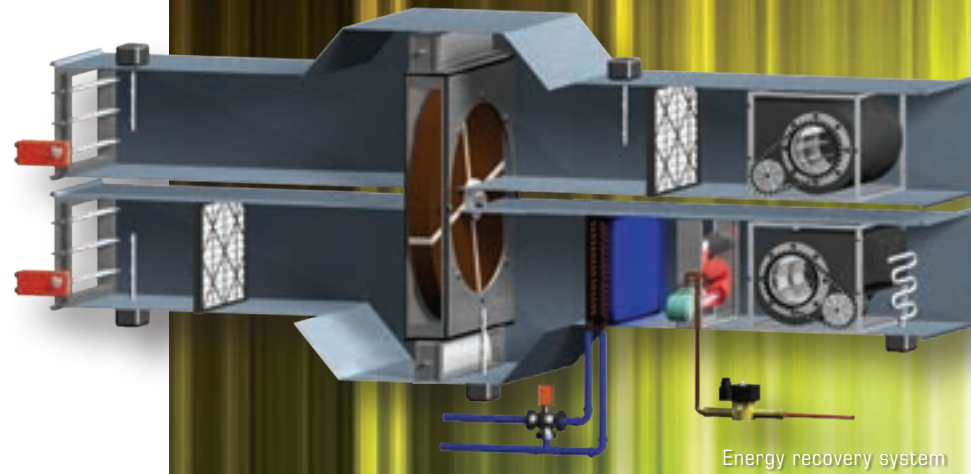
Recognized as the ultimate all-in-one BACnet® solution, RC-Studio® exceeds the BACnet (B-AWS) profile, providing outstanding functionality and ease of programming. From this single application, you have the freedom and flexibility to perform object creation and deletion, scheduling, trending, event logging, alarming, diagnostics, and graphical interface linking from any BACnet Internet-connected building.

Auto discovery allows fast and easy integration of all BACnet® devices on all networks. Drag and drop functionality allows you to easily link any BACnet® object to any other feature in the system.

Enjoy a complimentary 12-month updates subscription, and conveniently renew your subscription after the renewal date without penalty.



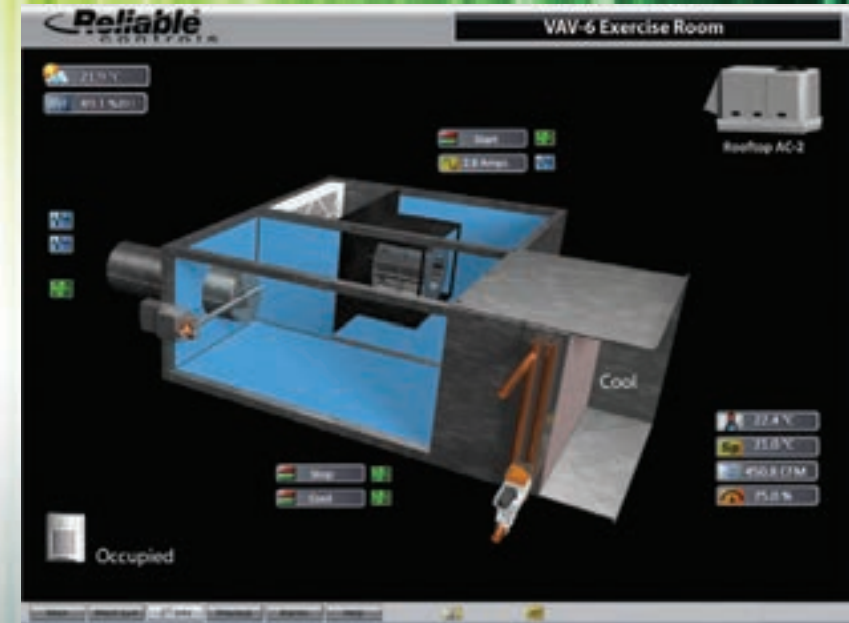
Quickly generate professional 2D and 3D System Group graphics using this full featured, easy to use, online graphical images and services software. Drag and drop a wide array of HVAC components and supporting images into your favorite 3rd party authoring tool and import your work of art into RC-Studio® System Groups for final annotation of animations and object values.



Energy recovery system



Isometric Library



RC-Studio® System Group featuring conical images Component



# RCGrafXSet®

## Accelerate creativity

The images and dashboards you create can be used as operating interfaces for RC-Studio®, RC-WebView® and the MACH-ProWeb™. Choose from thousands of professionally rendered images in multiple colors and orientations. Single object and multi-object animations are supported in Shockwave file and HTML5 formats.

Request images to be added to the libraries at any time using the online Graphic Requests service. Upload your own works of art to be considered for addition to the RCGrafXSet® User library.

Enjoy a complimentary 12-month updates subscription, and conveniently renew your subscription after the renewal date without penalty.

Over the decades, we have earned the respected business of a worldwide, independent network of highly skilled controls contractors. Look for the Reliable Controls Authorized Dealer logo, and be assured of long-term, confident performance and complete satisfaction.



## Exceptional local service

Every Reliable Controls Authorized Dealer is factory trained and tested to ensure the highest level of competency. Training classes are held regularly at our headquarters and at selected locations around the world. Online courses are available anywhere, anytime.

Our Authorized Dealers provide you with exceptional local service for system design, quotations, installation, programming, commissioning, and after-sales support. They earn the repeated business of the most satisfied customers in the industry.

Independent local controls contractors are the ideal partners to service your unique application. Visit the Sales Area of our website to request a quote from an Authorized Dealer near you.

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



Facility managers work hard to create responsive environments that meet the needs of the people who work, shop, and live in them. Our products enable facility managers to work more efficiently and intelligently. The result is a clear performance improvement that builds excellent customer satisfaction and a track record of success and confidence.

**Dockside Green**  
 A 15 acre brownfield site transformed into the world's first LEED platinum certified neighborhood development. ([www.docksidegreen.com](http://www.docksidegreen.com))



## Profiles of success



Reliable Controls Authorized Dealers complete successful projects around the world in virtually every segment of the market.

New construction, retrofit, large or small, Reliable Controls products apply successfully to them all.

**Reliable**<sup>®</sup>  
 controls



**A**t Reliable Controls® Corporation, we know how important it is to make the right decision when selecting a new building automation system.

When you choose Reliable Controls®, you have selected the simplest and most flexible building automation system in the industry today, and partnered with a growing international corporation that is committed a high level of performance over the long term and total customer satisfaction.

Backed by our industry recognized 5-year warranty, we stand behind our products and your investment today and tomorrow.

We are the people and technology you can rely on.

visit us on the Internet at

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

or call us toll free at

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