

people & technology you can rely on™ Climate change is one of the top social, political, and commercial issues of our time. Let our sustainable building solution help you choose a green path that's right for you.



Harana Managan

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, CO₂ 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.







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





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.





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.

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.





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.



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.



Sustainable Communication's

Configure your device addresses. network configuration, protocol RC-Toolkit® preferences, automated demand response, and firmware updates using RC-Toolkit.

MACH-ProWeb™

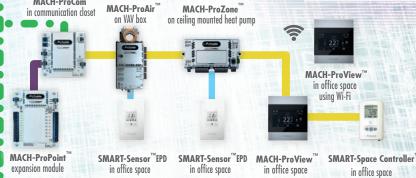


Internet security

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.







Central Plant Controls

Network flexibility



Our products support the Building Automation and Control Networks protocol [BACnet®], Ethernet, Master/Slave Automated Demand Response, and Internet Data Services.

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







■ BACnet* VPN BACnet* MS/TP BACnet* PTP

SMART-Net

I/O-Net

MODBUS RTU. TCP

BACnet is the industry standard protocol for building controls (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.





The Reliable Controls® set of hardware delivers simple, flexible, and durable devices to connect, monitor, and control the HVAC, lighting, and security equipment within your building.

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



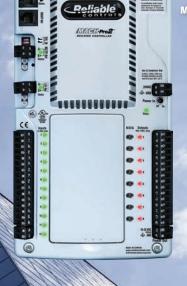


SMART-Space™ Controller Convenient access and control with multi-sensor capability

C€ III



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



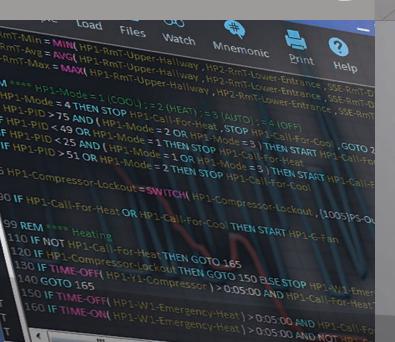
MACH-ProWebCom

High speed, Internetenabled, expandable
system controller and
web server

MACH-ProSys™

Large mechanical rooms, and multibuilding applications

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.

MACH-ProAir™ Flexible VAV

Visit www.bacnetinternational.net/btl to view a complete listing of our BTL certified products.



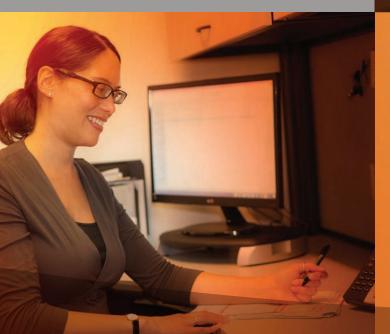
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You can only control what you can measure!

We offer a wide range of wallmounted 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.

Sensing





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.

Completely programmable interface for up to ten objects

Our SMART-Sensor™ series offers an advanced Electronic Paper Display (EPD) user interface measuring temperature, humidity, CO₂, 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 system.



To complement our sustainable building controls 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.



Peripheral partners













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.



Post your sustainable building
dashboards to the web quickly
and easily with the first 3-in-1
device of its kind. The MACHProWeb™ 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.

Integrated

Browser Support



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.





The MACH-CheckPoint™ door access controller provides a flexible solution for securing doors, facilities, and entire building complexes using the BACnet® protocol.

When combined with RC-Passport®
software a integrated security
management solution is delivered for
connectivity to a diverse number of
applications.

Integrated Security





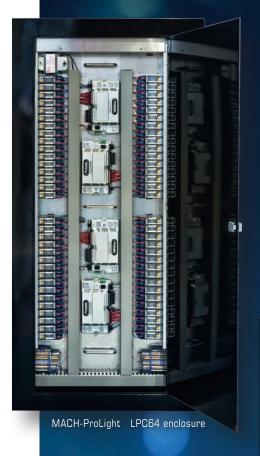
The MACH-CheckPoint door access controller is a fully configurable Power over Ethernet (PoE) device, designed to meet or exceed the BACnet Advanced Application Controller (B-AAC) profile. The BACnet objects of the controller integrate perfectly with Reliable Controls® HVAC and lighting controllers.

RC-Passport provides a friendly and flexible software interface which helps security professionals optimize their legacy systems, comply with current industry standards, and counter future threats. Configurable elements include map-based security zones, administrator/user roles and rights, person and credential types, personnel profiles, access permission levels, and workspace plans to integrate guard stations.



The MACH-ProLight[™] advanced lighting controller is the world's first controller to achieve the BACnet® Testing Laboratory's BTL BACnet Lighting Device (B-LD) profile.

Small, durable and packed with flexibility, the Reliable Controls® MACH-ProLight (MPL) is a fully programmable advanced lighting controller BACnet Building Controller (B-BC)] with highly scalable I/O in a very small footprint.











Integrated illumination



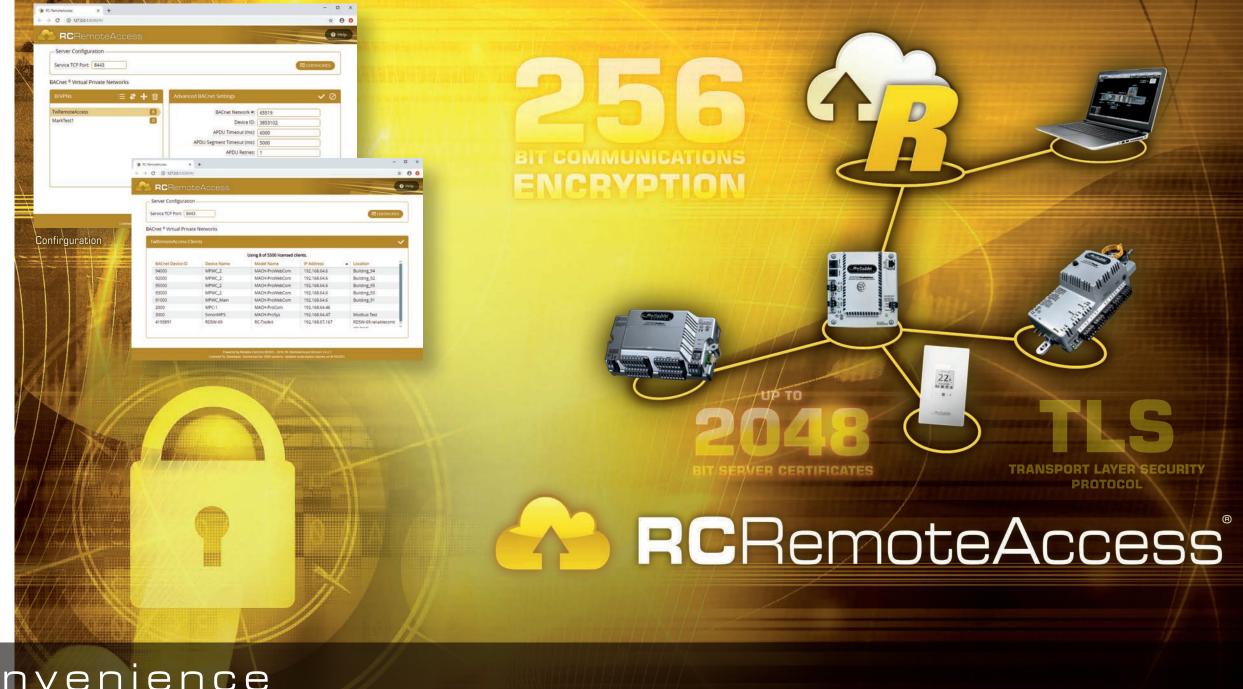
Empower your facility managers to integrate lighting controls into your sustainable building using the MACH-ProLight lighting controller, and save energy while achieving OpenADR and Title 24 compliance. The MACH-ProLight is a freely programmable and scalable BTL-listed device, providing 0-10 VDC continuous dimming and BACnet Lighting Output (BLO) object support. This allows you to implement advanced control strategies such as daylight harvesting, dim-to-off control, vacancy control, plug-load control, and scene/theme control.

Compatible with standard lighting-control relays, lowvoltage peripherals, EnOcean® wireless products, and the Reliable Controls SPACE-Sensor™ and SMART-Net products, the MACH-ProLight conveniently ships in preassembled, UL 508A listed control panels, or as individual components, and will illuminate your building's operational efficiency, today and tomorrow.





Simplify your IT management and improve your data communications security with RC-RemoteAccess, a flexible BACnet virtual private network (B/VPN) solution that is scalable and affordable. RC-RemoteAccess is an easy to use software does not require additional routers or controllers to deploy and permits multiple separate VLAN configuration. Save time and money while managing your own BACnet secure network.



Secure convenience



RC-RemoteAccess not only provides enhanced security, but saves time by minimizing the need for port forwarding and eliminating the requirement for BACnet Broadcast Management Device configuration (BBMD) and broadcast distribution table (BDT) setup. RC-RemoteAccess conveniently allows multiple VLAN configurations on a single server and provides easily managed changes to client configurations.

RC-RemoteAccess creates a secure BACnet virtual private network (B/VPN) by connecting multiple, BACnet IP devices dynamically into a single system over the internet. Data communications security is improved by employing 256-bit encryption, 2048-bit server certificates, and Transport Layer Security protocol (TLS).





RC-WebView® is a powerful,
enterprise server solution that
allows operators to command
multiple BACnet® internetconnected 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, Programs, and more.



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.

Program entire sequences of operations using RC-WebView's Program Editor. The Program Editor makes it easy to write, edit, and share sequence of operations programs.

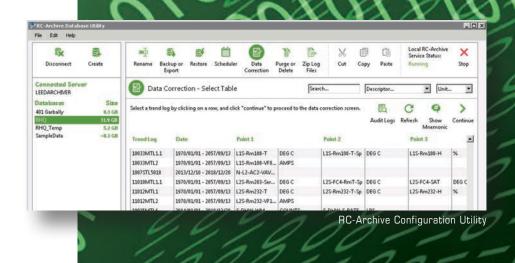
With secure user configuration, you can set up multiple users on Active Directory to simultaneously access and view graphics, trend, and runtime data, and if permitted, change setpoints, schedules, programs, and acknowledge alarms.

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

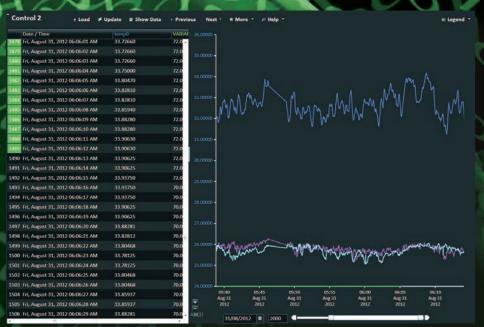




Access to long-term data is an essential component of managing your sustainable building. Use RC-Archive,® a secure and scalable application to rigorously archive your building's Trend and Runtime Log data, from any BACnet® internet-connected building.







Trend Log accessed through MACH-ProWeb controller

RCArchive

Integrated data archiving



Based on the industry standard SQL database, RC-Archive is an efficient and dependable server application that provides secure Trend Log and Runtime Log data collection and storage over a prolonged period of time.

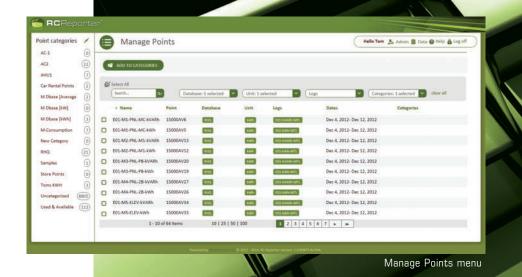
Operators can easily link the RC-Archive database to RC-Studio®, and then seamlessly graph all historical data using RC-Studio, RC-WebView and the MACH-ProWeb™ user interface.

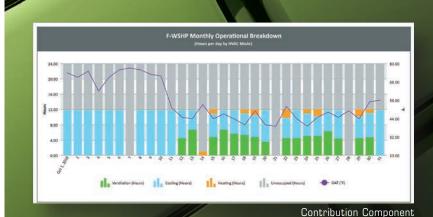
The data from RC-Archive is used by RC-Reporter® to chart your facility's energy and environmental performance and deliver clear building analytics.





Extract intelligence from your archived building data and make informed operational decisions. RC-Reporter® is a fully customizable, serverbased 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.







RCReporter

Integrated analytics



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.

Ranking Component - Compares the point values for top performing or worst performing equipment.



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



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.



Advanced engineering workstation



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.





The myControl® mobile app

offers fully customized mobile

interfaces to your sustainable

building, providing individual

personal control for occupants

through accessible settings for

temperature, lighting, ventilation,

occupancy, and more.



STATview™

Provides a programmable thermostat interface, allowing users to monitor and control the operation of unitary HVAC equipment.



LISTview™

Provides a custom list of up to 12 system points that an occupant or operator can quickly view and adjust.



SPACEview[™]

Provides an intuitive interface for occupants to adjust environmental conditions in their space.

OCCUPANCY

Individuals activate their space with a swipe to occuppied in the morning. Whenever the occupant vacates the space, they can save energy by switching their zone to unoccupied mode.



LIGHTING

Occupants can dynamically adjust their individual lighting setpoint. The system then uses daylightharvesting to automatically adjust lighting to maintain a constant lumen level.



SUNSHADES

TEMPERATURE

their work spaces.

Occupants can easily adjust

the temperature setpoint of

Occupants are able to dynamically adjust the position of their individual exterior motorized sunshades. This provides a highly effective way to minimize cooling loads in summer due to solar gain.



Occupants are able to dynamically adjust the fan speed of their control environment.

myControl

FAN

Mobile comfort



Any configured MACH-System™ control point can be monitored and adjusted using the app. STATview provides a familiar, programmable thermostat interface, allowing users to monitor and control the operation of unitary HVAC equipment. LISTview provides a flexible, custom list of system points that can be quickly viewed and adjusted. SPACEview provides a simplified, intuitive interface to adjust the environmental conditions of your space.

Compatible with both Android and iOS operating systems, this amazing app can be downloaded from either the Google Play Store or Apple App Store.

To learn how to get the myControl app directly into your hands, contact your local Reliable Controls Authorized Dealer at: reliablecontrols.com/sales

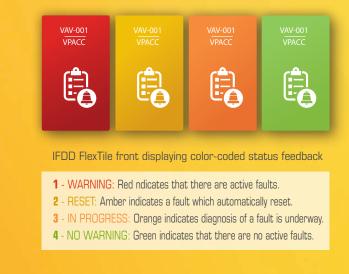


Reliable Controls'® unique IFDD FlexTiles™ facilitate the creation of intuitive and flexible integrated fault detection and diagnostics (IFDD). IFDD FlexTiles empower building operators to identify and resolve faults and sub-optimal performance in their facility, while improving the life-cycle cost of the building systems as well as controlling occupant safety and comfort.





Integrated Fault Detection Diagnostic



IFDD FlexTiles are used to quickly develop a fault detection and diagnostic solution within your existing Reliable Controls installations without the need for third-party software or third-party services.

Monitoring your system in real time with IFDD FlexTiles delivers an inherent component of the sequence of operation, that is scalable and provides operators with immediate notification of sub-optimal performance. This improves the likelihood of proactively identifying the root cause of faults and helps educate future operators how to optimize the building.



Empower your front desk property management system to automatically assign comfort levels upon check-in and save energy, using RC-Hospitality[™], the simple, flexible, and sustainable guest-room integration solution from Reliable Controls®.



Integrated property management



RC-Hospitality's set and forget configuration allows you to automatically assign the HVAC and lighting occupancy settings for any room upon guest check-in. Designed with the ANSI/ASHRAE international standard BACnet® protocol, RC-Hospitality enables your front desk to improve guest room comfort and operational efficiency, while reducing the greenhouse gas emissions of your property.





and 3D System Group graphics
using RC-GrafxSet,® the 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.





Graphical libraries



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. Flexible and rich features like single object and multi-object animations are supported with the HTML5 format allowing for a mobile friendly user interface design. Dashboard and integrated fault detection and diagnostic (IFDD) FlexTiles provide real time diagnostics to discover root causes for suboptimal performance.

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 RC-GrafxSet User library.



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.





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









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.





Health Care

Industrial

Museum

Recreational

Retail

Transportation

Residential

Agricultural

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

Corporate

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



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Reliable Controls China

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© 2020 Reliable Controls* Corporation, All rights reserved. Rev-N 06-04-20 At 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

or call us toll free at

1.877.475.9301

