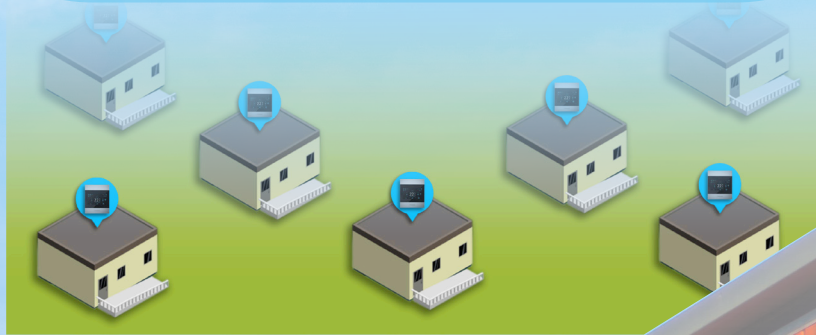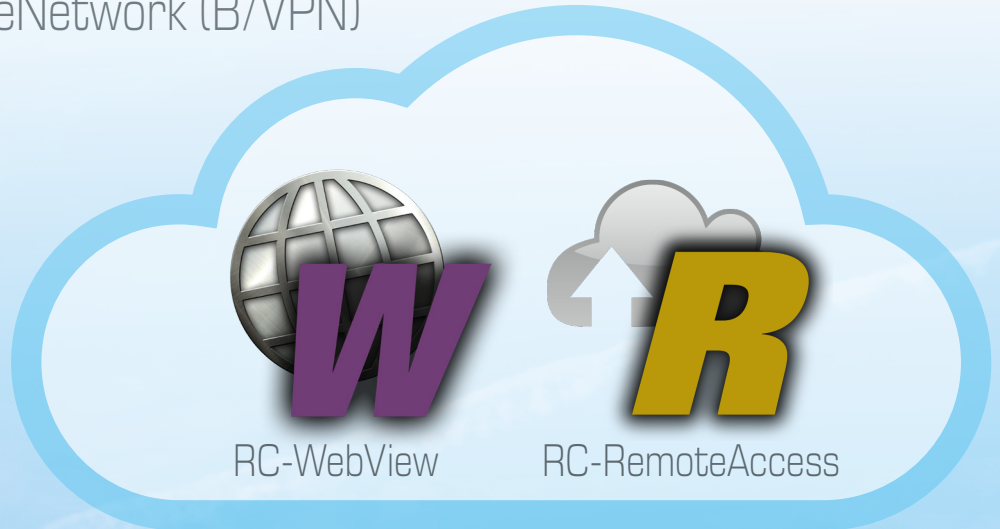# Reliable® controls

MACH-ProView LCD

Sustainability standards place a high demand on facility managers to maintain a delicate balance of energy efficiency, client comfort, and environmental impact.

The ease of use, versatility, and resilience of the Reliable Controls system allows building operators to achieve that balance.
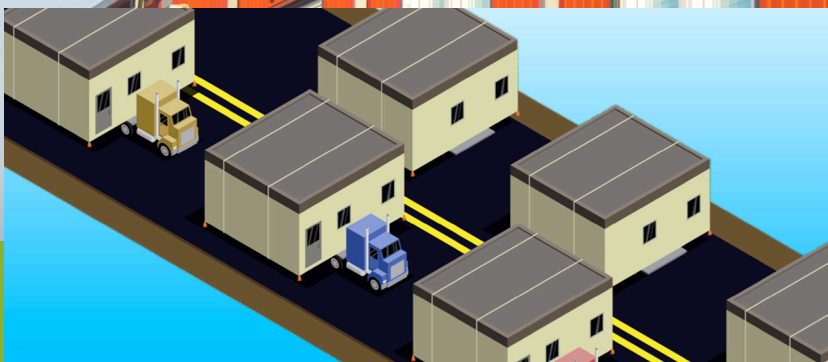
Control Solutions For Portables

simple, flexible, secure
BACnet Virtual PrivateNetwork (B/VPN)

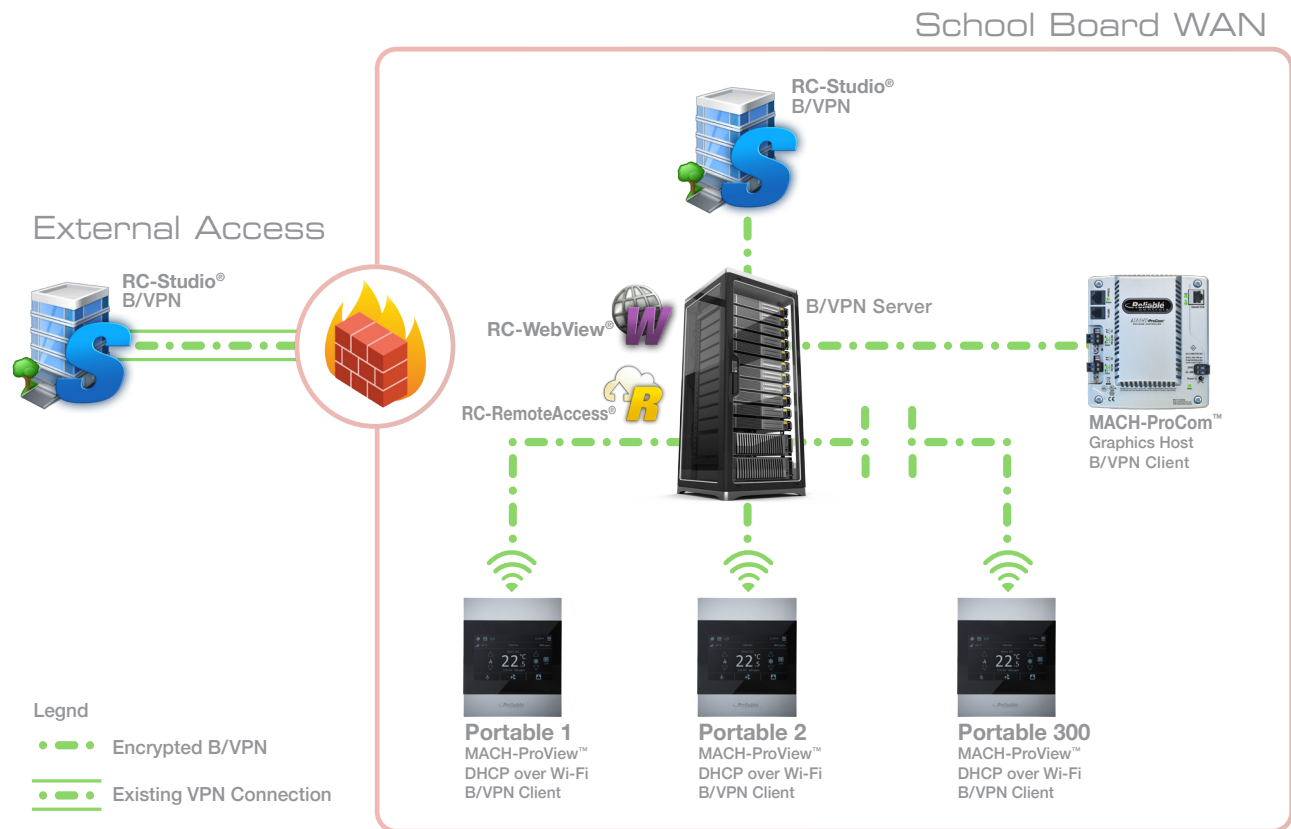RC-WebView   RC-RemoteAccess

Wi-Fi and DHCP provide a flexible, stable communication method. B/VPN encrypts communications creating a secure network.

The MACH-ProView™ LCD with Wi-Fi, RC-RemoteAccess® and RC-WebView® offer a secure mobile solution that is ideal for **school portables**.

Better by design™

School Board WAN

RC-Studio®
B/VPN

External Access

RC-Studio®
B/VPN

RC-WebView®

B/VPN Server

RC-RemoteAccess®

MACH-ProCom™
Graphics Host
B/VPN Client

Legnd

● ● ● Encrypted B/VPN

● ● ● Existing VPN Connection

Portable 1
MACH-ProView™
DHCP over Wi-Fi
B/VPN Client

22 °C

Portable 2
MACH-ProView™
DHCP over Wi-Fi
B/VPN Client

22 °C

Portable 300
MACH-ProView™
DHCP over Wi-Fi
B/VPN Client

22 °C

Solution

By combining the new MACH-ProView LCD controller with RC-RemoteAccess and RC-WebView, you now have a simple, flexible, and secure method to network your BAS for portables.

Wi-Fi and DHCP provide a secure, encrypted BAS network!

One network accommodates all portables!

Benefits

This setup opens a range of new options:

  - Alarming and notifications are now possible

  - Enterprise level scheduling (Snow days + PD days)

  - Flexibility to relocate portables

Remote access allows:

  - Troubleshooting

  - Setpoint changes

  - Programming changes

  - Schedule changes

Enjoy fewer on-site service calls, greater flexibility, increased productivity, and a reduction in maintenance and energy costs. All while increasing the comfort of students' and staff!
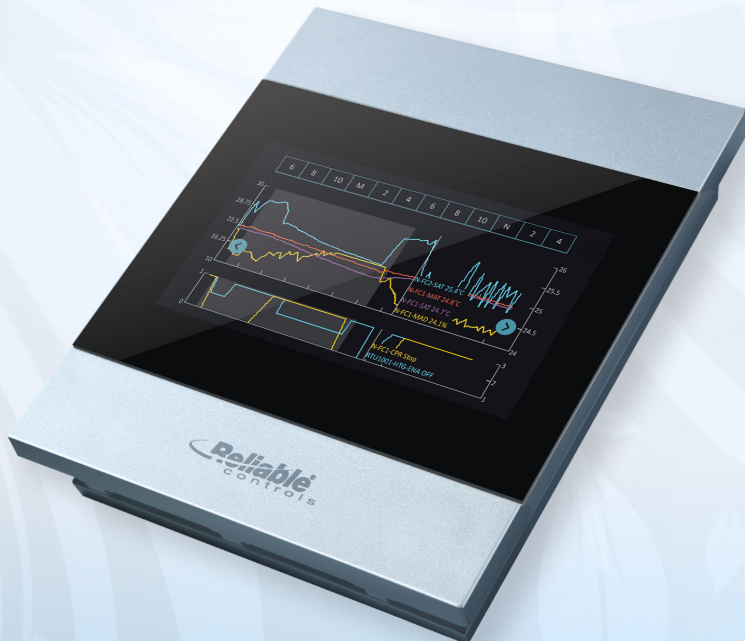
Reliable®
c o n t r o l s

MACH-PROVIEW LCD WITH TRENDVIEW

TRENDviews of Elegant Efficiency

MACH-ProView with TRENDview is a powerful and elegant BACnet® Building Controller (B-BC) and BACnet Operator Display (B-OD), which provides a plenitude of attractive, high-resolution, graphical interfaces for the controlled environment. With the TRENDview feature, operators and end users can view single-point and multipoint trend logs in a selectable list, in flexible layouts to maximize the amount of room for analog and digital data.

The MACH-ProView LCD with TRENDview features a fully customizable LCD touch screen with an attractive array of interfaces to engage occupants of smart and green buildings. This freely programmable controller resides on Power over Ethernet (PoE), Wi-Fi, or EIA-485 networks. Using the MACH-ProView LCD with TRENDview, users can access, control, and monitor the comfort and energy performance of any space.

Backed by an industry-recognized, 5-year warranty and a worldwide network of certified Authorized Dealers, the MACH-ProView LCD with TRENDview empowers operators to easily track a building's performance.

TRENDview on the new MACH-ProView LCD can do more

Single-point and multipoint Trend Logs automatically become available at the touch of a new icon

View and modify the timescale x-axis

Tap any place to see the data series names, values, and units at a particular time

Scroll forward and backward through the TRENDview graph

Define the scaling for the y-axis

Set colors for each data series
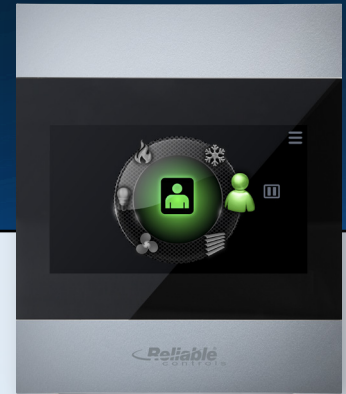
Learn more at:
reliablecontrols.com/MPV-L

Edit/update icon:
Display realtime updates from your control system

Legend icon:
Fine tune the amount of detail shown

Y-axis icon:
Display the most relevant information

NEW TRENDview menu icon

FC1-TL2

44.5

35.625

26.75

17.875

9

SPACEview: a simple, intuitive interface for occupants to adjust environmental conditions in their space

LISTview: a flexible, customizable list of up to 12 system objects that an occupant or operator can quickly view and adjust

TRENDview: allows ease of access for operators and end users to their realtime system data, with single-point and multipoint trend logs with out the need for a PC or any external device

The MACH-ProView is the first BACnet Building Controller (B-BC) and BACnet Operator Display (B-OD) listed product. The MACH-ProView LCD is also the only B-OD tested to Revision 14, the latest testable Revision, and the first to receive a BACnet Conformance Certificate.

The MACH-ProView LCD fully integrates with all BACnet products, allowing an elegant interface to the controlled environment. With a selection of configurable views and multiple color themes, the MACH-ProView LCD fits virtually any décor.

STATview: a familiar, programmable thermostat interface that allows users to monitor and control the operation of unitary HVAC equipment

5

A powerful enterprise server solution that meets or exceeds the BACnet Operator Workstation profile (B-OWS), allowing operators to command any BACnet Internet-connected building configured with System Groups from anywhere in the world.

BACnet Operator Workstation

- Meets or exceeds the BACnet Operator Workstation profile (B-OWS)

- Access and edit BACnet Inputs, Outputs, Values, Schedules, Groups, Alarms, Trend Logs, and more

Websites

- Create scalable and fully customizable user interfaces with Enterprise Schedules, Navigation Groups, Navigation Trees, and Users

Enterprise Schedules

- Create hierarchical and exception schedules across multiple devices and multiple systems

Navigation Trees

- Create a unique menuing system for any user or user role within the entire enterprise
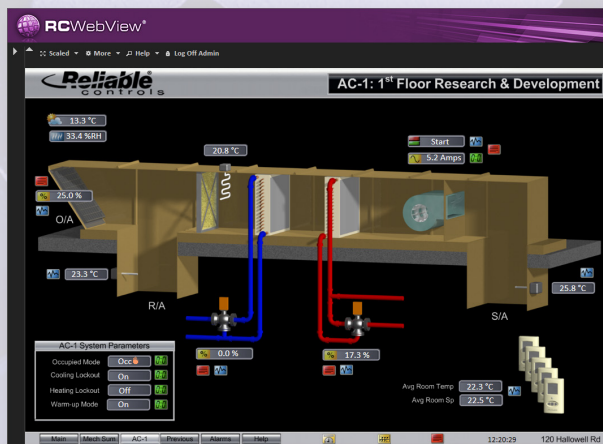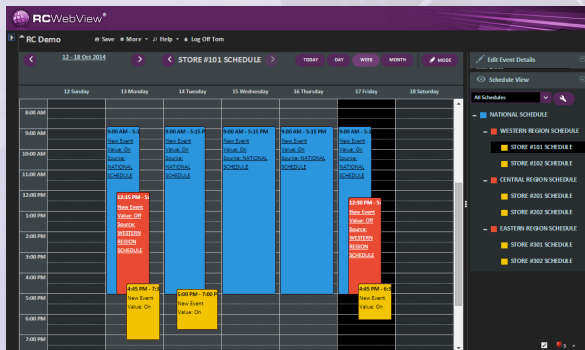
After Hours Requests

- Allows tenants to request, and managers to approve, zone operation outside of regularly scheduled periods

Audit Trail

- Automatically records every change made by a user

Learn more at:
reliablecontrols.com/RCWV

Better by **design**™

RCWebView®
BACnet® Operator Workstation
Software

RCRemoteAccess®
BACnet® Virtual Private Network
Software

Simplify your system's Internet configuring while improving your cyber security with this IT-friendly, BACnet Virtual Private Network (BVPN) software from Reliable Controls.

Features include:

Simplified Internet Configuration

- Supports Domain Name Server (DNS) or static IP for server ID

- Supports Dynamic Host Control Protocol (DHCP) clients

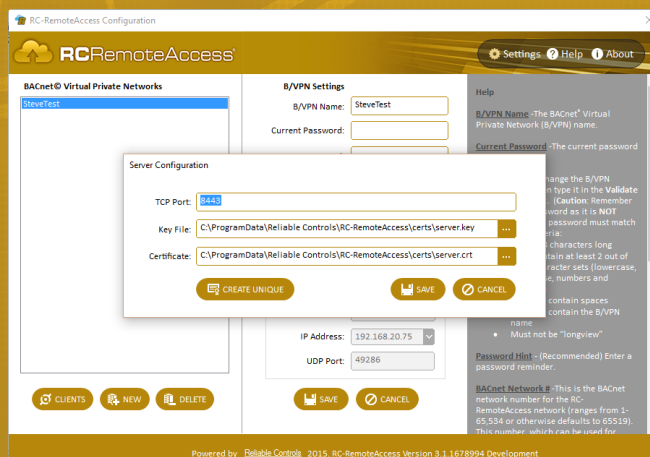- Hosts multiple B/VPNs by name, not port number

BACnet Support

- Uses standard BACnet routing rules between connected clients

Secured Communications

- Connects multiple remote systems into a single, BACnet Virtual Private Network (B/VPN)

- Requires only a single inbound port for multiple B/VPNs

- Uses 256-bit encryption

- Requires authentication and system identifier credentials

- Uses TLS protocol (version TLS 1.2 or greater)

- Supports 2,048-bit server certificates to secure connections

RC-RemoteAccess provides security by encrypting BACnet communications, and by removing the need for port forwarding of BACnet ports through firewalls.

Learn more at:
reliablecontrols.com/RCRA

ASHRAE **BACnet**®

Reliable controls

Chris Hadfield P.S. is an excellent demonstration of the power, flexibility, and sustainability of the Reliable Controls system.

Relialble Controls outstanding customer loyalty stems from the ability to be good listeners and deliver practical, easy-to-use building solutions that are flexible, economical, and an excellent return on investment, year over year.

RELIABLE CONTROLS
BUILDING SUSTAINABILITY™

                   Designed and Manufactured in Canada