

THE **trend**

THE OFFICIAL QUARTERLY NEWSLETTER OF RELIABLE CONTROLS® CORPORATION



**Elevate Your Space...**



## ...with the new SMART-Space Controller

Take ownership of your personal environment with the new SMART-Space Controller™, a fully programmable BACnet controller for small installations that require complete controllability in a compact, economical package.



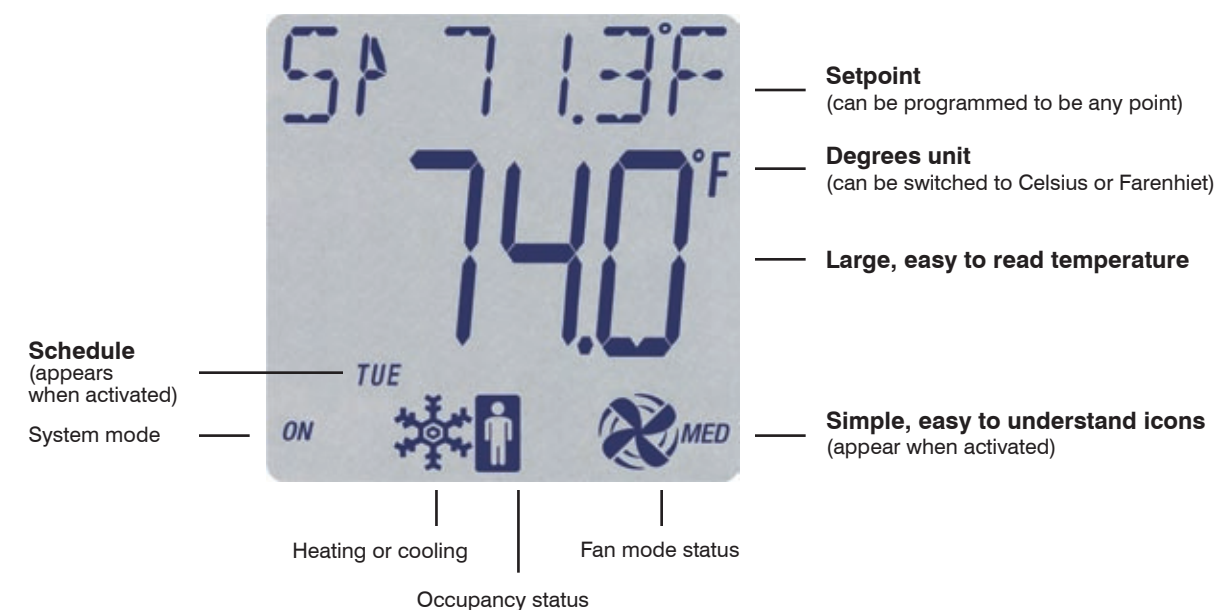
Actual Size

- Up to 6 Inputs
- Up to 4 Outputs
- 32 Variables
- 2 PID Loops
- 2 BACnet Trend Log Multiple
- 1 System Group
- 4 Programs
- 1 BACnet Schedule
- 2 Custom Tables
- Back-lit LCD

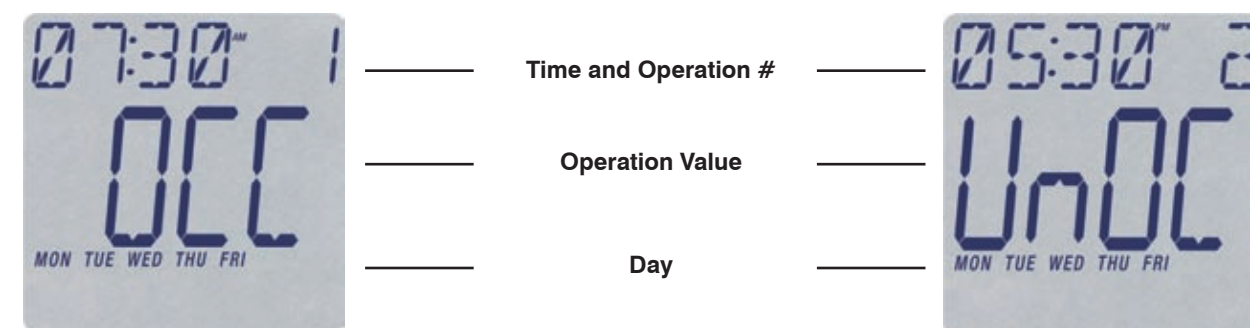


Simple, Economical, and Flexible

The SMART-Space Controller™ is the interface between the building occupant and the HVAC system controlling the space. The default screen of the SSC offers clear information, showing a large onboard temperature display, setpoint, and easy to understand icons for heating, cooling, occupancy, and fan mode. In one quick glance, you get a clear snapshot of the status of your space.



Adjusting the SMART-Space Controller™ is as easy as pressing either the ◀ or ▶ buttons, which will instantly cause the setpoint to be displayed for adjustment. Pressing the ■ button will cycle you through the additional features of the controller.



The SMART-Space Controller™ has a very powerful built-in 7-day schedule that lets you assign unique times to trigger up to eight operations per day. Operation values can be *binary* (e.g., occupied/unoccupied) or *analog* (e.g., Setpoint = 74.0 °F, Setpoint = 78.0 °F, Setpoint = 70.0 °F). The day of the week can be conveniently programmed in blocks of Monday to Friday or Saturday to Sunday, or as individual days.

## LEED AP ACCREDITATION

*“Sustainable design meets the needs of the present generation without compromising the ability of future generations to meet their own needs.”*

– United Nations General Assembly,  
Brundtland Commission (World Commission on Environment and Development)

Green building practices have proven to substantially reduce or eliminate negative environmental impact while reducing operating and energy costs, thereby enhancing building marketability and improving occupant productivity.

We are very pleased to announce the accreditation of Levi Tully and Rick Rosine as LEED APs. Individuals recognized for their knowledge of the LEED rating system are permitted to use the LEED Accredited Professional (AP) acronym after their name, indicating they have passed the accreditation exam.

Please take advantage of these resources to assist you in the implementation of Reliable Controls® products in LEED design strategies including:

- Energy management control,
- Integrated system strategies,
- Short and long-term data acquisition and management,
- Proactive system alarming and operation notifications,
- Feature-rich commissioning and operating environment,
- Simple tuning and modification,
- Presentation of LEED values to key owners, developers, and engineers,
- Insight on the importance of the relevant standards,
- Navigation of the LEED certification process,
- Independent sounding-board for implementation approaches, and
- Answering your questions about LEED certification.



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Rick Rosine



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Levi Tully

Leadership in Energy and Environmental Design (LEED) is an internationally recognized green building certification system developed by the U.S. Green Building Council for the certification of practical and measurable green building concepts.

LEED was created to accomplish the following:

- Define “green building” by establishing a common standard of measurement,
- Promote integrated, whole-building design practices,
- Recognize environmental leadership in the building industry,
- Stimulate green competition,
- Raise consumer awareness of green building benefits, and
- Transform the building market.

The LEED rating system addresses six major areas: sustainable sites; water efficiency; energy and atmosphere; materials and resources; indoor environmental quality; and innovation and design process.

Different versions of the rating system are available for specific project types.

### LEED for New Construction (LEED-NC)

*New construction and major renovations (the most common LEED certification).*

### LEED for Existing Buildings (LEED-EB)

*Existing buildings seeking LEED certification.*

### LEED for Commercial Interiors (LEED-CI)

*Commercial interior fitouts by tenants.*

### LEED for Core and Shell (LEED-CS)

*Core-and-shell projects (total building minus tenant fitouts).*

### LEED for Homes

### LEED for Neighborhood Development (LEED-ND)

### LEED for Schools

*Recognizes the unique nature of the design and construction of K-12 schools.*

### LEED for Retail

*Consists of two rating systems: New Construction and Major Renovations version 2.2; and LEED for Commercial Interiors version 2.0.*





## NEW DEALERS



### SINOSMARTS

62 ZI ZHU YUAN ROAD  
BLOCK B , RM 4041  
HAI DIAN DISTRICT  
BEIJING, CHINA



### SHENZHEN RELIABLE CONTROLS

RM 1014,  
INTERNATIONAL CULTURE BUILDING  
3039 SHEN NAN ZHONG ROAD  
FUTIAN, SHENZHEN  
518033 CHINA

### GOOTEE CONSTRUCTION

2400 NORTH ARNOULT ROAD  
METAIRIE, LA, 70001  
UNITED STATES

### KERR CONTROLS

9-10114 McDONALD PARK ROAD  
SIDNEY, BC, V8L 5X8  
CANADA



### KASEMAN CONTROL SYSTEM

4/F, BLOCK 90,  
1122 QIN ZHOU NORTH ROAD,  
SHANGHAI, CHINA



### BT CONTROLS

PO BOX 1906  
27500 WITCH CREEK MOUNTAIN ROAD  
RAMONA, CA, 92065  
USA



### QATAR SECURITY SYSTEMS COMPANY

PO BOX 20151  
WADI AL SAIL STREET  
AD DAWHAH  
DOHA, QATAR





## RC-WebVIEW 2.0:

THE SOLUTION YOU NEED TO KNOW MORE ABOUT



The latest release of RC-WebVIEW™ 2.0 offers many exciting features that make it a desirable solution for any Reliable Controls® installation where multiple operators requiring simultaneous or remote access is required. But before getting to that, perhaps we should answer some obvious questions...

### What is RC-WebVIEW 2.0?

RC-WebVIEW™ 2.0 is a server-based software application that provides browser access to Reliable Controls® MACH-Systems. Multiple remote PCs loaded only with *Microsoft Internet Explorer* can connect to a single RC-WebVIEW™ 2.0 site over the Internet, and operate multiple MACH-Systems using a Graphical User Interface very similar to RC-Studio® 2.0. It's easy to install and configure, because it uses the same system groups and files that are used by RC-Studio® 2.0.

### What can RC-WebVIEW 2.0 do for you?

RC-WebVIEW™ 2.0 makes accessing your MACH-System from the Internet or Intranet easier. Use of HTML pages, standard ports, and TCP/IP packets makes it easy to deal with routers and firewalls.

RC-WebVIEW™ 2.0 allows off-site and on-site operators to use any available PC to monitor and operate a MACH-System.

Multiple RC-WebVIEW™ 2.0 users can access the same MACH-System simultaneously, without requiring a Reliable Controls® software license at each workstation.



### What's New in RC-WebVIEW 2.0?

Direct communication to ALL of your BACnet® devices and objects. BACnet® schedules, calendars, trend logs, and other objects can be accessed, displayed and modified through RC-WebVIEW™ 2.0 system groups or workstation groups. This is possible because we've built the BACnet® protocol stack directly into RC-WebVIEW™ 2.0, making it a native BACnet® device.

RC-WebVIEW™ 2.0 now displays trend logs with an appearance consistent with the latest version of RC-Studio® 2.0, including trend log data stored by RC-Archive™ 2.0. Users can access archived trend log data through their browser interface, use the filter dialog box for advanced queries of the data, and export selected data for further analysis or report generation.

The latest version of RC-WebVIEW™ 2.0 allows for user customization – permissions and preferences can be set for menu display, alarm notifications, auto log-off, graphic update mode, requirement for reason for change, and the ability to change Auto/Manual are all configurable for each user.

All current alarms can be displayed, acknowledged and cleared. Historical alarms can be viewed, filtered and managed.

RC-WebVIEW - Alarms - System: RHQ						
Worksheet Alarm Configuration Help						
Acknowledge History Pop-Up Print Help Close						
System Name	Source	Alarm Time	Received Time	Alarm Type	Alarm Message	State
RHQ	South Offices	Jul 17 2009, 18:02:04	Jul 17 2009, 18:03:25	2	FC-1 1st Floor South Offices Fan Failure	Reset
RHQ	MACH-ProCom	Jul 17 2009, 17:30:30	Jul 17 2009, 17:32:05	System	MODULE 1 - COMMUNICATIONS FAULT	Reset
RHQ	MACH-ProCom	Jul 17 2009, 09:26:31	Jul 17 2009, 12:54:05	3	MASTER1	Ack
RHQ	MACH-ProCom	Jun 30 2009, 11:19:39	Jun 30 2009, 11:19:45	System	PANEL IS OFFLINE - 005	Reset
RHQ	MACH-ProCom	Jun 02 2009, 12:37:31	Jun 02 2009, 12:29:37	3	Out of Range	Reset
RHQ	MACH-ProCom	May 25 2009, 13:02:10	May 25 2009, 13:02:56	General	Change of State	Alarm
RHQ	MACH-ProSys	May 21 2009, 22:31:50	May 21 2009, 22:32:36	2	EF-8 Lower Male Washroom Exhaust Fan Failure	Reset
RHQ	MACH-Global	May 21 2009, 18:01:59	May 21 2009, 18:02:36	2	AC-3 Production AHU Supply Fan Failure	Reset
RHQ	MACH-ProSys	May 01 2009, 11:52:50	May 01 2009, 11:53:27	2	FC-2 R&D Fan Failure	Reset





## 2008 Award Winners

### Top Sales of the Year

In recognition and appreciation of the highest sales contribution in the region

### Entrepreneur of the Year

In recognition and appreciation of sustained new growth in the region

### MVP of the Year

In recognition and appreciation of excellence achieved in all aspects of business



#### EASTERN CANADA



#### WESTERN CANADA



#### EASTERN USA

**PHILIPS McDADE  
CONTROLS**



#### MIDWEST USA



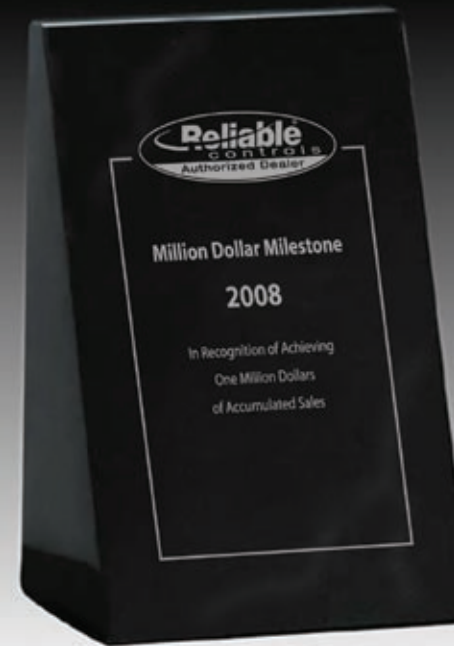
#### WESTERN USA



#### INTERNATIONAL

**REDBASE  
SYSTEMS**

**NOGA  
ENGINEERING SOLUTIONS**



Congratulations to Les Controles Montreal, Pritchett Controls, and Austec Building Automation for achieving over \$1,000,000.00 in historical purchases with Reliable Controls®. This very significant milestone substantiates a strong and long-lasting commitment to Reliable Controls®, and provides a testimony of satisfaction from the life-long customers connected to a dealer of excellence.



Congratulations to Enviromatic Systems of Grande Prairie, Texas, in being awarded the 2008 Dealer of the Year. The award is very significant in that it recognizes a single dealer with the highest sales for the year in all the regions. Incredibly, the company has grown its business with Reliable Controls® in every single year since becoming an Authorized Dealer in December of 1999. Congratulations on another outstanding year of business, and all the best for 2009.

# 75-85 O'RIORDAN ST.

SYDNEY, NSW, AUSTRALIA

RETAIL

## HIGH-LIFE STYLE

*Forming part of Sydney Corporate Park, 75-85 O'Riordan Street is fast becoming Australia's hottest retail strip – a rising star on Sydney's corporate landscape that encapsulates the finest in lifestyle amenities and facilities.*

## PROJECT DETAILS

Rega Controls was tasked with replacing an existing building automation system that had failed the customer. Because the building's tenants are high-end retail operations, comfort levels had to be maintained throughout the retrofit.

The original system had four Hiltachi chillers, each with four compressors (plus two additional customer-installed McQuay chillers), two Boilers, and 114 Fan Coil Units. A high-level interface with the Hitachi chillers was established using LON to BACnet®. The flexibility of the Reliable Controls® MACH-System has allowed the customer to periodically install additional fan coil units for new tenants as demand requires.

Rega Controls was able to maintain tenant comfort throughout the retrofit by changing the main network structure to include an Ethernet cable installed throughout the building to connect the MACH-ProSys™, MACH-ProCom™, and MACH-Global™ controllers. The existing twisted shield cables (EIA-485) were employed for the remainder of the network.

To learn more about projects using Reliable Controls®, visit  
[www.reliablecontrols.com/projects/overview](http://www.reliablecontrols.com/projects/overview).



### PROJECT TYPE:

**Retrofit**

### INSTALLATION TYPE:

**Boiler, Chiller, HVAC,  
Water Monitoring**

### TOTAL AREA:

**24,000 m² (258,000 ft²)**

### EQUIPMENT INSTALLED:

**1 MACH-Global™  
2 MACH-ProCom™  
11 MACH-ProSys™  
12 MACH2™  
49 MACH1™**

### NETWORK:

**Ethernet, EIA-485, LAN**

### INTEGRATION:

**BACnet®, McQuay, Modbus**

### TOTAL SYSTEM POINTS:

**1,850 points**

### RELIABLE CONTROLS® DEALER:

**Rega Controls**

