

PHILIP J. CURRIE PROJECT: Dinosaur Museum Profile RC-WEBVIEW 3.8 RELEASE: Web Access for the Masses



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Q4 - 201

Introducing

SMART-Sensor™ EPD

Monitor Your Space **in Style**













Temperature





SMART-SENSOR™ EPD

Programmable Sensor

Monitor Your Space in Style

A complement to any room, the Reliable Controls SMART-Sensor™ Electronic Paper Display (SS3-E) delivers a stylish, modern, networked sensor solution that displays up to ten configurable parameters related to a space. The updated SMART-Sensor design is centered around a new electronic paper display (EPD) and a low-profile, plastic and glass enclosure, with capacitive touch buttons.

The SMART-Sensor is a powerful and dynamic microprocessor-based sensor that monitors room environmental conditions, and communicates the information back to MACH-System controllers via SMART-Net. The interface clearly indicates object name, value, and equipment status. Even third party BACnet objects connected to the Reliable Controls MACH-System can be accessed directly from the EPD screen. All SS3-E models include touch buttons and an onboard thermistor for space temperature sensing. Options include CO_2 sensor, front light, humidity sensor, I/O, and enclosure colors in warm gray or white.

RM101S

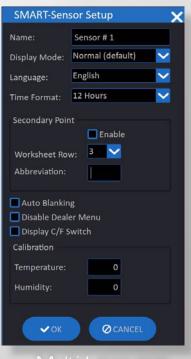
Accessibility Display Mode

FLO-CT YES

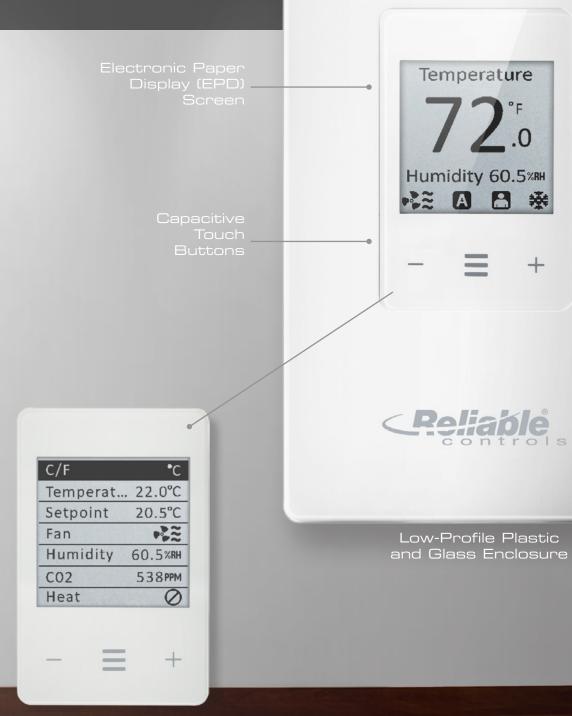
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The SS3-E is backward compatible with existing SMART-Net networks. New features include a degrees C/F switch accessible from the SMART-Sensor user interface, multiple language support, and an expanded set of status icons

The SS3-E hosts an onboard language library containing over 90 common industry words and phrases in seven different languages. Users can select from English, French, Spanish, Portuguese, German, Italian, or Simplified Chinese.







List Display Mode

Better by design



RC-WebView 3.8

Web Access for the Masses



C-WebView® is a browser-based, enterprise solution that meets or exceeds the BACnet® Operator Workstation profile (B-OWS), allowing operators and administrators to manage any BACnet, Internet-connected building configured with RC-Studio® properties. RC-WebView's strength lies in its ability to connect multiple, independent control systems into a single Enterprise Website, accessed by a Single-Sign-On (SSO).

RC-WebView New Features and Improvements

New After Hours Operations allows tenants to request and building managers to approve equipment operation outside of regularly scheduled periods

Improved object selection interface

Enhanced Permissions service for Enterprise Schedules, which allows administrators to restrict access to selected schedules

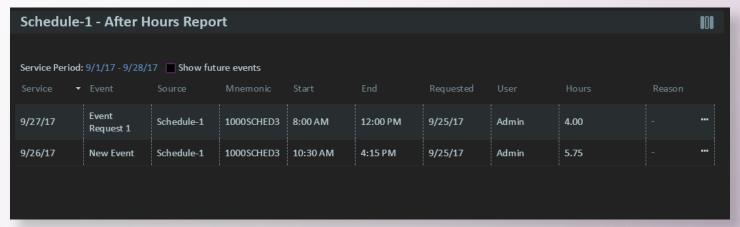
Improved and optimized overall performance

After Hours Requests															
Period	d: 9/1/17 - 9/				dule Source Service - Start End Kate Hours Cost Status Keason Test- prise- Schedule-1 9/25/17 10:30 AM 4:15 PM \$0.00/hr 5.75 \$0.00 Pending - ***										
			Special Event	Enterprise Schedule			Start								
- !	9/25/17	Admin	New Event	User-Test- Enterprise- Schedule	Schedule-1	9/25/17	10:30 AM	4:15 PM	\$0.00/hr	5.75	\$0.00	Pending			
<u> </u>	9/25/17	Admin	New Event	User-Test- Enterprise- Schedule	Schedule-1	9/26/17	10:30 AM	4:15 PM	\$0.00/hr	5.75	\$0.00	Pending			
	9/25/17	Admin	Event Request 1	User-Test- Enterprise- Schedule	Schedule-1	9/27/17	8:00 AM	12:00 PM	\$0.00/hr	4	\$0.00	Pending			
. !	9/25/17	Admin	Event Request 2	User-Test- Enterprise- Schedule	Schedule-1	9/28/17	8:30 AM	2:30 PM	\$0.00/hr	6	\$0.00	Pending			

After Hours Requests:

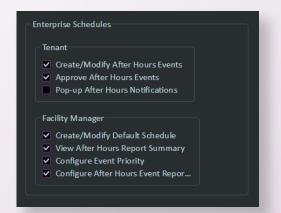
The new After Hours Operation uses the events in Enterprise Schedules to function as 'requests', and administrators can choose to approve or reject these requests. If rejected, the event is removed from the service and will not run. RC-WebView's notification service is used to communicate the After Hours Requests, and configure popup notifications. Optional email notifications also allow tenants and administrators to receive their requests by email.





After Hours Report:

Summarizes all past and future after hours events.



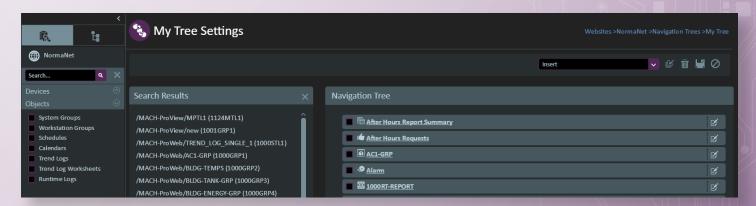
Enhanced Permissions:

Configure access to specific schedules within an Enterprise Schedule.



Improved Object Selection:

Allows more effective use of screen space while providing powerful search and filtering capabilities. When adding objects to a group, worksheet, or tree, click the magnifying glass icon next to a node on the System Tree to search and filter objects within that node.



Search Results:

The Search Results list and the related search and filter features when working with the Enterprise Schedule builder are shown in this example.

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WELCOME TO NEW DEALERS

New Reliable Controls Authorized Dealers



A to Z Engineering Solutions Cairo, Egypt



AHI-Carrier FZC Sharjah, United Arab Emirates www.ahi-carrier.com



Automated Environmental Technologies Dammam, Saudi Arabia www.aetenviro.com



Energon Energy Efficiency Consultancy Ltd. Istanbul, Turkey http://www.energon.com.tr



Refrigeration Electrical Engineering
Bach Khoa Co, Ltd.
Ho Chi Minh, Vietnam
www.hvac.vn

TRADE SHOWS

Visit Reliable Controls at these Upcoming Trade Shows

Vancouver Island Economic Summit October 25-26, 2017 Vancouver Island Conference Centre Nanaimo, BC, Canada



Columbus Lighting and HVAC Expo November 1, 2017 Hollywood Casino Columbus, OH, USA



NFMT Orlando November 14-15, 2017 Orange County Convention Center Orlando, FL, USA Booth #1020



PM Expo November 29 - December 1, 2017 Metro Toronto Convention Centre Toronto, ON, Canada



PHILIP J. CURRIE DINOSAUR MUSEUM

Serv-All Highlights the Past with Technology of the Future







Reliable Controls Authorized Dealer, Serv-All Mechanical Services Ltd., completed this new contruction project in 2015. The Philip J. Currie Dinosaur Museum rests on the ancient Pipestone Creek, the world's richest

dinosaur bone bed, near Grande Prairie, Alberta, Canada. It is a worldclass facility in the heart of Peace Country and honors Canada's leading palaeontologist, Philip J. Currie. The project has attracted the attention of multiple celebrities, including Dan Aykroyd, Matthew Gray Gubler, Robert F. Kennedy Jr., and mystery writer Patricia Cornwell.

Designed as a metaphorical reference to the dinosaur bones that reside

within, the museum features a geometrically complex committing to providing a high level of service to those roof supported by exposed timber beams. With a total area of 2,713 m² (29,200 ft²), the museum's mechanical equipment includes a boiler, chiller, HVAC, and VAV. The automation system expertise. networked MACH-System[™] hardware consists of one

MACH-ProWebSys™ controller, one MACH-ProSys™ controller, 26 MACH-ProAir[™] controllers, and one MACH-ProZone[™] controller. The network topologes are EIA-485 and Ethernet, and the protocol integration is BACnet®.

> There are 344 system points and the project is LEED® Silver certified. Strict air quality, temperature, and humidity control were achieved with the Reliable Controls MACH-System.

Serv-All Mechanical Services Ltd. has been serving Edmonton, Central and Northern Alberta since 1978. Serv-All opened additional offices in Grande Prairie in 2007 and Calgary in 2016, recognizing the needs of the customers in the North and South by

regions. The company provides HVAC installation, maintenance, and service, as well as building













PEOPLE YOU CAN RELY ON

David Brunsdon: Training Instructor & Transceiver Host

or almost a decade, **David Brunsdon has** inhabited roles that have allowed him to interact directly with the Reliable **Controls Authorized Dealer** (RCAD) network. Starting in 2008 in the Technical Support department, David provided telephone support to dealers and end users for seven years. In this role, he was exposed to every aspect of the Reliable Controls product line. David's technical expertise,

and his understanding of the challenges faced by technicians on projects, led to his current role in Training.

David's current position is dualpurpose: he is the host of the Transceiver Webcasts, and is also a classroom instructor for courses in Canada, Australia, and Singapore.

The Transceiver Webcasts that David hosts are dealer-exclusive events, providing a place for the RCAD network to learn about the features and benefits of Reliable Controls products. Each webcast is condensed into an hour, and David delves into topics related to Reliable Controls products, and to the HVAC Controls industry. Guests are regularly featured in order to share insights into product development and design, directly from the creators. David's extensive experience in Technical Support positions him as an ideal host; he knows the product line well and has awareness around challenges and features that would be of utmost interest to the

Employee Profile

industry professionals that work with the MACH-System™.

Reliable Controls recognizes that for an owner to end up with an optimally functioning control system, it must be installed, programmed and commissioned properly. For this reason, Reliable Controls requires all dealer technical personnel to be certified according to an extensive program of online and classroom training. David is a key part of the Reliable Controls Certification Program, which allows dealers to continuously upgrade and update their proficiency in working with Reliable Controls products. As an instructor, David leads a variety of classroom training sessions, including the core five-day course that must be

completed by all dealer technical personnel. David provides training that allows students to work with the latest hardware, firmware, and software while they learn installation and programming techniques and create the database for a typical airhandling unit from start to finish.

David also leads a two-day advanced operator course, ideal for building managers and operators who wish to derive maximum benefit from their MACH-System installations. In this course, David includes a collaborative exploration of how an advanced operator can use a MACH-System to reduce energy, improve occupant comfort, and minimize maintenance costs.

David describes his days as being spent entirely in service to Reliable Controls staff, dealers, and end users... in between sips of coffee. The MACH-System is constantly growing, and David seeks out what Reliable Controls users need to know, and determines the best way to present the information. His knowledge and confidence surrounding the MACH-System is surpassed by few, and David's ability to explain concepts calmly, in plain language, is appreciated by many of his students.

students with technical information when they're asleep... and 'Davey B.' keeps them awake!"

In David's own words... "I'm at my best in front of the class, where my passion for the topics, combined with my terrible jokes, form a spectacle that one cannot look away from. It's a special treat for me to visit far-off places when I take my training show on the road. Traveling to Melbourne and our new Singapore office have been the highlights of the year for me. I love getting to visit the amazing projects that have selected Reliable Controls as their controls vendor, and learn about the brilliant work our dealers do.

Outside of work? I'm a family guy!

My life consists of debating superhero powers with my four-yearold, and eating the baskets of vegetables my wife keeps bringing into the house. We just bought a 109-year-old house, and right now I'm working with one of our dealers to install a control system powered by a MACH-ProView™. We

weren't looking to take on a big home renovation project, but the Victoria housing market is very competitive, so it's time for me to learn. I've lived in Victoria my entire life, and I have no plans on leaving. I love it here."



Robin Smith, Manager of Training, says, "David's years of experience in Technical Support along with his quirky sense of humor have proven to be an excellent combination in the classroom. You can't fill

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AKRON ART MUSEUM

Reliable s

AKRON, OH, USA

MUSEUM

UPDATING A LANDMARK BUILDING

The Akron Art Museum is a metropolitan art and cultural center, as well as an educational facility. Spanning three centuries, the Akron Art Museum combines a late nineteenth-century brick and limestone building with the twenty-first century John S. and James L. Knight Building, a soaring glass and steel structure by the celebrated Viennese architectural firm Coop Himmelb(I)au.

PROJECT DETAILS

Reliable Controls Authorized Dealer, Best Commercial Energy Services, Inc., completed this retrofit project for the Akron Art Museum. This community facility encompasses several usage types, including exhibits, training, an auditorium, and corporate gatherings. Maintaining critical temperature and humidity control while bringing the new system online presented challenges, as did working with restrictive sensor and device locations and converting old pneumatic actuators to direct digital control actuators.

Networked hardware includes a MACH-ProWebSys as a front-end device with MACH-Pro1 and MACH-Pro2 controllers serving the air handling units (AHUs). SMART-Sensor LCD devices are installed for all zone temperature/humidity sensors. MACH-ProAir controllers serve critical art storage zones and MACH-ProZone controllers serve all radiant floor loops and snow melt zones.

Mechanical equipment includes two chillers, two boilers, 12 AHUs with chilled water, hot water, reheat, outside air flow monitoring, and variable frequency drives (VFDs) on all fans. Two of the AHUs are VAV style with VAV boxes downstream. These units serve critical art storage areas.

The facility is currently a 24/7 operation. Critical environment control is of utmost importance for this community facility, and the MACH-System[™] has done an excellent job achieving this goal.

To learn more about projects using Reliable Controls® visit www.reliablecontrols.com/projects/overview





PROJECT TYPE:

Retrofit

TOTAL AREA:

7,832 m² (84,300 ft²)

Installation Type:

Boiler, Chiller, Fan Coil Unit, HVAC, VAV, Radiant Floor Heating, Radiant Cooling, Snow Melt System

EQUIPMENT INSTALLED:

- 2 MACH-ProWebSys"
- 2 MACH-ProCom™
- 4 MACH-Pro1™
- 9 MACH-Pro2™
- 10 MACH-ProPoint™
- 23 MACH-ProAir™
- 4 MACH-ProZone™
- 5 SMART-Space Controller™
- 26 SMART-Sensor™ LCD

NETWORK:

EIA-485, WAN

INTEGRATION:

BACnet®, SMTP

Reliable Controls® Dealer:

Best Commercial Energy Services, Inc.

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