



SMART-SENSOR
Backlight Functionality



LEED PLATINUM
Certification Awarded to
Reliable Controls HQ

www.reliablecontrols.com

RUNtime

The Official Quarterly Newsletter of Reliable Controls® Corporation

Q1 - 2014



**Reliable Controls Headquarters Annex
Achieves LEED Platinum Certification**



Member of
BACnet
International

Reliable
controls

LEED PLATINUM CERTIFICATION AWARDED TO RELIABLE CONTROLS HQ ANNEX



Minimizing our impact on water, pollution, and climate change

Bicycle Parking & Rain Garden, Reliable Controls HQ

On November 13, 2013, Reliable Controls HQ Annex was awarded LEED® Platinum certification, earning 56 out of a possible 70 points.

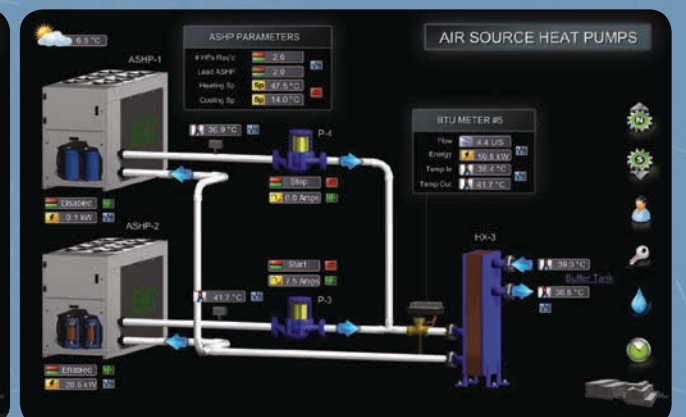
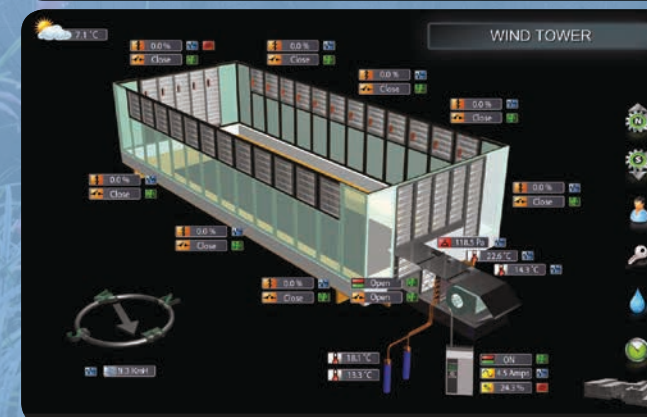
The facility's impressive water management design elements reduce stormwater runoff by 54%, while also reducing potable water for building sewage conveyance by 82%. Overall, the building consumes 61% less potable water than a baseline building.

The naturally vented building design relies on 57 trickle vents and hydronic heating and cooling to keep the occupants thermally comfortable and the overall energy consumption low. Lighting consists of modulating florescent fixtures with wireless control and daylight harvesting, as well as a significant amount of LED lighting. The facility achieves a 54% reduction in design energy

costs compared to conventional standards.

BACnet integration of the HVAC, lighting, and security systems allows occupied comfort settings to be enabled, maximizing energy savings. Individual control of temperature, light, sunshades, and occupancy is provided via LAN or wireless access. The measurement, verification, and controllability of the mechanical and electrical systems are a critical aspect in the design and operation of the building. That being the case, the Reliable Controls MACH-System is ideally suited to deliver long-term solutions to these important sustainability requirements.

Visit www.reliablecontrols.com/corporate/facility to learn more about our LEED Platinum certified facility.



SMART-SENSOR WITH BACKLIGHT

Our tremendously popular SMART-Sensor has just become even better. Now you can order it with a new backlight option.

A complement to any room, the Reliable Controls SMART-Sensor delivers an effective communicating sensor solution, which allows you to connect with up to ten configurable parameters related to your space – and with the new backlight option, you won't have to worry about bringing a flashlight with you to make changes.

The following options are now available with the SMART-Sensor:

- BL adds backlight
- CO₂ adds CO₂ sensor
- D adds °C/°F switch
- IO adds 2 inputs and 2 TRIAC outputs
- L adds LCD display
- W specifies white color
- OC adds occupying sensor



Connect with your Space

SMART-Sensor Accesspoint (SSEA)

Firmware 2.10 Now Supports

EnOcean® Enabled Wireless RIB® Relays!



Reliable Controls has already tested and approved several models of Functional Devices RIBW Series Wireless Relays.

Teach and Learn Modes

- SSEA can be bound with wireless RIB® Relays using either onboard tactile switches on both devices or by using remote management with EnOcean's® Dolphinview software
- SSEA requires 3 systems points to be set up in the SSEA worksheet within RC-Studio: binary value for control, analog value for delay (not used), and binary value for status of relay position
- Initiate Learn process by pressing Learn button on the SSEA, then subsequently press the Learn button on the RIB® Relay. (SSEA will give audible beep if it receives the Teach packet.)

RIB® Relay Features

- Can be turned on or off wirelessly
- Includes dry contact input for sensor feedback
- 20 Amp load control
- 120, 208, 240, 277 VAC or 24 VAC/DC
- One SSEA connects up to 6 relays
- Individual RIBs® can be used as wireless repeaters for longer transmission distances or when significant obstructions are present

For more product information, visit:
functionaldevices.com

National Account Manager: Eric Fritch e.fritch@functionaldevices.com 800.888.5538, ext. 415

GOING GREEN IN THE WORKPLACE

Here are some very simple and easy tips that anyone can do at work to help contribute to a more sustainable workplace:

Monday



Start the week off fresh by organizing your recycling process right off the bat, making sure you have receptacles empty and ready for cans, bottles, paper, and compost!

Tuesday



Save some trees by choosing to work digitally whenever you can, print on both sides of the page whenever possible, and don't forget to use recycled paper!

Wednesday



Ditch your car for the day and ride a bike, take the bus, walk, run, or canoe – just find a way to leave the car keys at home!

Thursday



Challenge yourself to prepare a lunch with no disposable packaging. Choose reusable, glass or metal containers, make your lunch using healthy options, and ensure you compost any food waste like banana peels or coffee grinds!

Friday



Did you know that appliances continue to draw power even when switched off? Prevent wasting energy over the weekend at work by unplugging your coffee maker, kettle, toaster – and don't forget your computer, too!

Going Green



Contribute to sustainability every day to help create a more resilient overall workplace, benefiting both the environment and the wellbeing of you and your co-workers!

NEW DEALERS

RESOURCE INSTRUMENTATION & ELECTRICAL PTY, LTD
Wangara, WA, Australia

TRADE SHOWS

Reliable Controls will have a strong presence at the following tradeshow:



AHR Expo 2014

Javits Convention Center
New York, NY, USA
January 21–23, 2014
Booth #118
<http://www.ahrexpo.com>



MCE 2014

Fiera Milano Exhibition Center Rho
Milan, Italy
March 18–21, 2014
Pav. #13, Stand F02
<http://www.mcexpocomfort.it>



CUP-FESTIVAL

St. Ann's Academy
Victoria, BC, Canada
April 25–26, 2014
<http://creativelyunitedfortheplanet.org>





RELIABLE CONTROLS TO LAUNCH AUTHORIZED DEALER NETWORK IN EUROPE

With a high level of success in the Americas and Asia Pacific, Reliable Controls is finally set to officially launch a European Authorized Dealer distribution network in conjunction with the Monstra Convegno Expocomfort (MCE) tradeshow, hosted in Milan, Italy in March 2014.

development, assembly, service, and repair under one roof. This allows the company to develop processes internally and retain full quality control. Product returns average less than 1.5% in a 5-year window.

The corporation's products are currently distributed around the world through a global network of approximately 190 independent authorized dealers across 30 countries, primarily in the Americas and Asia Pacific.

Outstanding customer loyalty is of utmost importance to the company, stemming from the philosophy of helping people achieve their goals by listening and delivering practical, easy-to-use building solutions that are flexible, economical, and an excellent return on investment year over year.

The MCE show will mark the beginning of a long term commitment to sustainably grow and support the Authorized Dealer network in Europe and Africa. Over the past 15 years, the corporation has been doubling its market share every five years, and now is the time to invest in the European effort.

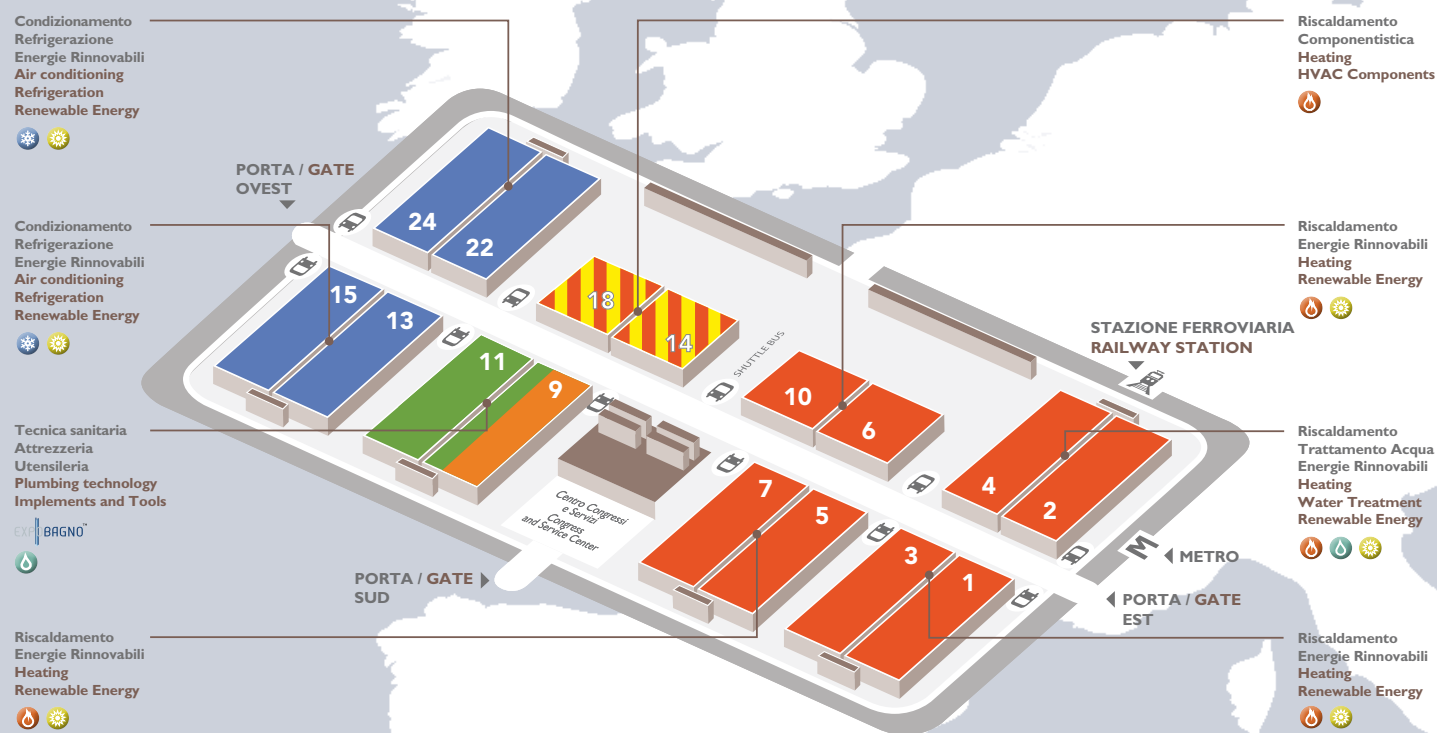
Philosophically, Reliable Controls is a service oriented and quality driven organization that believes the road to the best solution is paved with open and honest dialog.

"We are very pleased to officially launch our European distribution network in conjunction with the MCE tradeshow," said Tom Zaban, EVP, Sales & Marketing. "MCE will provide an excellent opportunity to showcase Reliable Controls' state-of-the-art and environmentally responsible product line, while also providing a forum to connect with customers and distributors in one setting."

Held once every two years, the 39th edition of MCE, under the banner of Global Comfort Technology, will provide the ideal venue for Reliable Controls to showcase its progressive building control products.

A diverse and highly specialized audience of 155,000 expected attendees from 136 countries will make MCE 2014 an excellent launch point for Reliable Controls.

Please visit us at Hall #13, Stand F02 to meet the Reliable Controls delegates and explore potential opportunities.



mostra convegno
expocomfort®

Reliable Controls is an ISO900 certified manufacturer that houses all design,

Sustainability 2.0

Roof Garden, Reliable Controls HQ

CREATING A RESILIENT FUTURE

The word “sustainability” has evolved over the years, from referring to the practice of simply creating “less impact” and making small adjustments to current or existing practices, to the higher meaning of applying green initiatives from the bottom up, implementing long term, sustainable practices beginning in the pre-planning stage, and including measurable parameters based on accountable data. As we move forward creating sustainable building practices measured by regulatory systems, we need to examine a myriad of factors contributing to the overall success of sustainability through green building construction.

Leadership in Energy & Environmental Design (LEED®) provides a rating system that is recognized as the international

mark of excellence for green building in over 132 countries, and is transforming the way we think about how our buildings and communities are designed, constructed, maintained, and operated around the globe. Comprehensive and flexible, LEED is a green building tool that addresses the entire building lifecycle and recognizes best-in-class building strategies. At its core, LEED is a program that provides third-party verification of green buildings. Building projects satisfy prerequisites and earn points to achieve different levels of certification. The LEED system offers guidance for effective implementation of sustainable practices, including sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality, promoting a cross-functional

strategy that involves each element of the overall project.

When sustainability was initially popularized as a building concept, it primarily targeted compliance, reduction, and limits. While these elements are still important, they focus more on fixing a broken system than building an effective one. As we look at the next iteration of sustainability, dubbed “sustainability 2.0”, we need to examine more all-encompassing approaches, including a more thorough pre-planning phase to coordinate multiple moving parts, as opposed to working in silos without visibility to what each phase involves.

Effective planning builds prosperous business with measurable and efficient results founded on sound financial planning, responsible use of resources, and community resiliency, which the LEED

system helps to regulate while providing tools and guidance for better building projects.

Planning is a huge component of creating a more resilient community. The strength and diversity that can result from a bottom-up community plan speaks to the hallmarks, which manifest from sustainable thinking.

As LEED certification becomes commonplace with sustainability 2.0 as the new goal, we must focus on continuing to create scalable, measurable, green solutions on a long-term basis, working from the ground up to implement and ultimately achieve lasting resilience and true sustainability to last well into the future.



RELIABLE CONTROLS HQ ANNEX

VICTORIA, BC, CANADA

CORPORATE

BUILDING GREEN

The LEED® Platinum certified facility is home to Reliable Controls® corporate departments, research and development, and technical support. Reliable Controls Headquarters Annex has two stories above ground and two levels of underground parking. The facility is annexed to the existing manufacturing facility, and earned 56 out of 70 possible LEED points.

PROJECT DETAILS

The Reliable Controls® HQ Annex is a naturally ventilated LEED Platinum targeted facility, designed to operate using 50% less energy than the ASHRAE 90.1(1999) standard. LEED points were achieved in part through an extensive bioswale at the center of the structure's stormwater management and soil erosion strategy. 98% of all construction waste was diverted from landfill or incinerators, and the building consumes 61% less potable water than a baseline building.

The building is naturally ventilated by 57 trickle vents, which modulate and temper the natural flow of air into the building through a heating/cooling coil and damper. In winter, air is drawn from the building by an extraction fan with heat recovery. In summer and the shoulder seasons, a wind tower drives ventilation, using modulating dampers that open or close according to the wind direction and speed. When necessary, hot water or chilled water is generated by two air source heat pumps, and delivered to the trickle vents and radiant floor. Lighting consists of modulating fluorescent fixtures with wireless control and daylight harvesting, as well as LED lighting. BACnet integration of the HVAC, lighting, and security systems allows occupied comfort settings to be enabled on a per occupant basis, triggered by unique security cards. Individual control of temperature, light, blinds, and occupancy is provided via LAN or wireless access from any computer or mobile device. For more: <http://www.reliablecontrols.com/corporate/facility/>

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



PROJECT TYPE:
New Construction

INSTALLATION TYPE:
HVAC, Lighting, Security,
Energy Monitoring

TOTAL AREA:
1,512 m² (16,178 ft²) office
2,465 m² (24,375 ft²) parking

EQUIPMENT INSTALLED:
2 MACH-ProWebCom™
2 MACH-ProCom™
5 MACH-ProSys™
6 SMART-Space™ Controller
8 SPACE-Sensor™ EnOcean
29 SMART-Sensor™ LCD
57 MACH-Sensor™ EnOcean Accesspoint
75 MACH-ProZone™

NETWORK:
EIA-485, Ethernet, LAN, Wireless

INTEGRATION:
BACnet®, Modbus, EnOcean

TOTAL SYSTEM POINTS:
1,068 points

RELIABLE CONTROLS® DEALER:
Houle Controls

