SSEA-TX
New Firmware Supports Transmit Capabilities

ECO-STAR AWARD
Integrated Watershed Management Winner

www.reliablecontrols.com

RUNtime

The Official Quarterly Newsletter of Reliable Controls® Corporation

Winter - 2013

MPP-O

MACH-ProPoint Output Expansion Module: a big hit for applications with large output needs

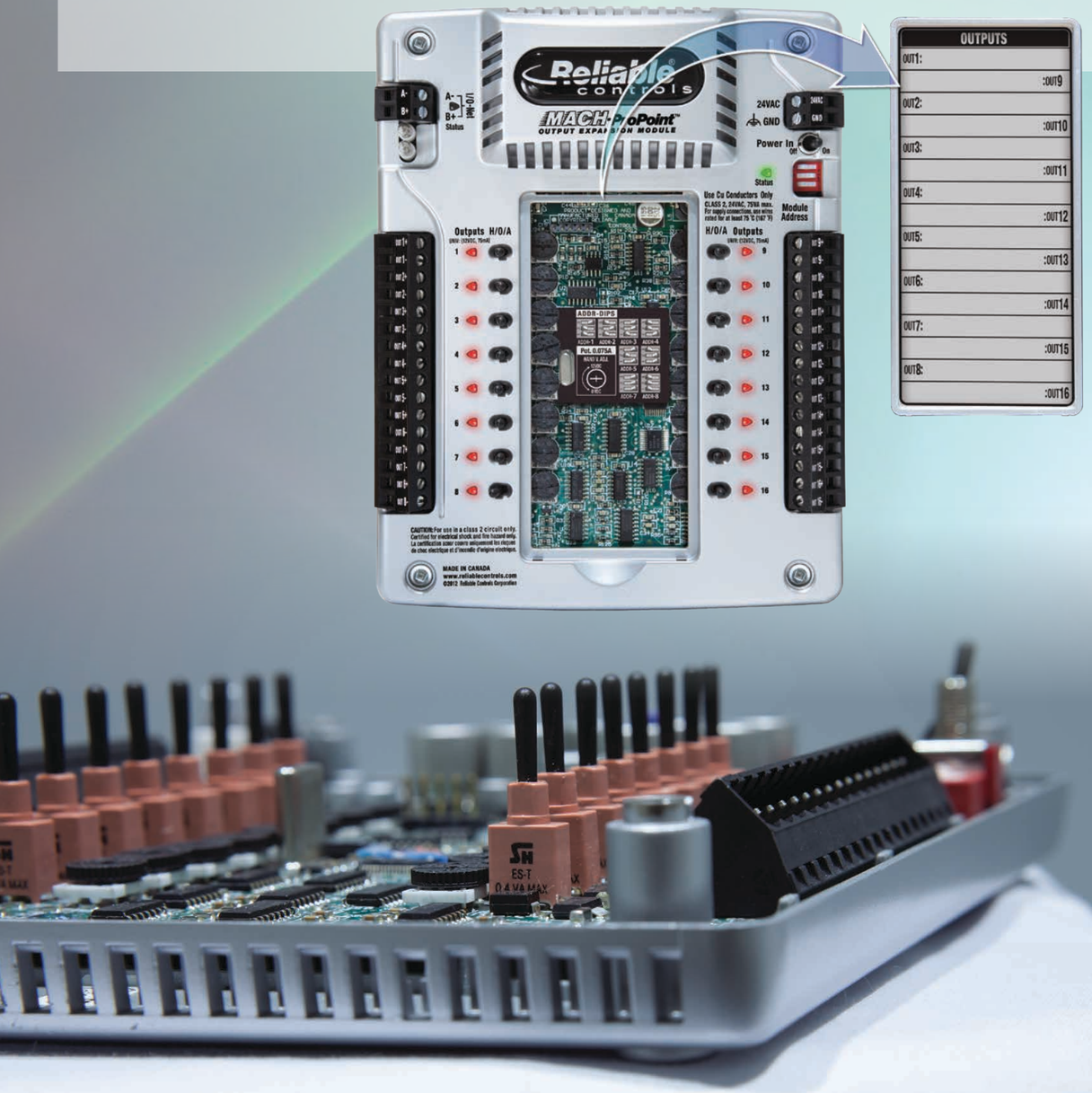
ISO 9001 QUALITY ASSURANCE

Member of BACnet International

Reliable controls

MACH-PROPOINT OUTPUT

Add universal outputs to any Reliable Controls MACH-Pro or MACH-ProWeb controller with this new, super flexible expansion module!



YOU ASKED, WE LISTENED.

OUTPUT TO THE MAX!

In 2012, we solicited feedback for potential products that Reliable Controls Authorized Dealers wanted the most – and the overwhelming response was output, *output,* ***output!***

You asked for it, so we made it!

This year saw the completion of beta testing followed by the release of the new **MACH-ProPoint Output (MPP-O) Expansion Module**, a new 16-output module for applications with large output requirements.

Featuring 16 universal outputs with optional HOA switches and robust 45 degree connectors, the MPP-O allows you to design with complete flexibility. Models with the HOA switches have the switch position status displayed in the RC-Studio Advanced Workstation Software (AWS). When the switches are in the Hand position, they can be potentiometer adjusted to precise voltages.

Mix and match up to 8 MACH-ProPoint expansion modules (MPP-IO, MPP-O, and/or MPP-I) to achieve up to 128 inputs, or 128 outputs.

The maximum possible total I/O for any controller is 168 points. Expansion modules are daisy-chained to the I/O-Net port of a MACH-Pro or MACH-ProWeb controller in any combination while limiting the total inputs, outputs, and modules below the maximum.

In conjunction with the MPP-O release, the MACH-Pro family firmware was updated to version 7.63 and the RC-Toolkit software was updated to version 2.53. Benefit from the following new features in these related releases:

- Enhanced test email support/ email notification support
- Compatible with Google Chrome
- Increased browser capabilities

LEED® PLATINUM CERTIFICATION

We are pleased to announce the achievement of LEED Platinum certification of the Reliable Controls Headquarters Annex in Victoria, BC.

The facility, which houses Research & Development, Sales & Marketing, and Administration departments, includes design elements that preserve and enhance the natural, surrounding landscape. As a direct result of this new construction, stormwater runoff has been reduced by 52% and potable water for building sewage conveyance has been reduced by 82%. Overall, the building consumes 60% less potable water than a baseline building.

The naturally vented building design relies on trickle vents and hydronic heating and cooling to keep the occupants thermally comfortable and energy consumption low. The facility is designed to use 50% less energy than conventional standards.

BACnet integration of the HVAC, lighting, and security systems allows occupied comfort settings, 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 a sustainable building and as a result, Reliable Controls is uniquely positioned to deliver long-term solutions to these important sustainability requirements.

ENHANCED FUNCTIONALITY: SSEA

Reliable Controls recently released updated firmware version 2.10 for the SMART-Sensor™ EnOcean Accesspoint (SSEA) product.

This update provides added functionality to the SSEA with the most notable change involving the ability to transmit as well as receive, allowing it to command devices wirelessly and act as a repeater, opening the door for communications with several supported EnOcean wireless output devices.

As of October 15, this new firmware is installed in all SSEA models with serial numbers of SSEA2000 or greater.

In conjunction with updated controller firmware, Control-BASIC WRITE statements can be used to force repeated writes over SMART-Net to an SSEA and repeated wireless transmissions to an output device. In addition, there were several fixes included with this firmware update.

New Features

- Two-way wireless interface, allowing the SSEA to transmit wireless control packets to and receive wireless status packets from qualified third-party EnOcean output devices
- Compatability with EnOcean RPS wireless switches single rocker, dual rocker, and keycard variants
- Compatability with door/window sensors using the EnOcean 1BS message type
- Generic learn of 4BS wireless controllers and sensors
- Ability to be enabled as a repeater of EnOcean wireless packets
- Additional support for new 4BS occupancy, gas detection, automated meter, environmenetal, and weather station EEPs

North Central Plumbing & Heating
Smithers, BC, Canada

Enviromatic Systems of Central Texas
Austin, Texas, USA

ASAP Heating & Cooling, LLC
Spring Gree, Wisconson, USA

Eaxon Technology Col. Ltd.
Shanghai, China

Control Concepts, LLC
Rio Rancho, New Mexico, USA

Onyx AutoTec Ptv. Ltd.
Ahmedabad, Gujurat, India

SNE Building Systems
East Granby, CT, USA

Houle Electric Ltd.
Kelowna, BC, Canada

Tracer Automation
Calgary, AN Canada

TBS Controls, LLC
Allendale, NJ, USA

New Dealers

Trade Shows

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

PM Expo 2013
MTCC South Building
Toronto, Ontario, Canada
December 4–6, 2013
Booth #1826
http://www.pmexpo.com/pre_show/index.php

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

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

New Sales Locator

The new and improved online sales locator now uses Google Maps technology to display our worldwide Authorized Dealer Network (pink pins) and Reliable Controls Sales Offices (blue pins) in a simple, user-friendly interface.

Additionally, users retain the ability to locate dealers by state, province, and country by scrolling down and choosing the applicable region.

Use the Sales Locator Map to conveniently locate an Authorized Dealer of Reliable Controls or a Reliable Controls Sales Office. On our website, click on a pin to view contact information: http://www.reliablecontrols.com/sales/

EcoStar Award

Reliable Controls is the 2013 recipient of British Columbia's Capital Regional District EcoStar Community Environmental Award, recognized for work in the category of Integrated Watershed Management.

The Capital Regional District (CRD) recently recognized outstanding achievements and contributions by local businesses, groups, and individuals in enhancing the environment through the EcoStar Community Environmental Awards.

These awards provide an opportunity for environmental leaders to highlight and demonstrate contributions towards making the capital region of British Columbia a more vibrant and sustainable community. Designed to reflect the diverse and innovative projects underway across the region, the EcoStar awards help the best environmental stewards to shine.

Reliable Controls was one of nine recipients in six categories of the EcoStar awards, recognized for our new headquarters annex, which includes design elements such as rain gardens and planters, swales, green roofs, cisterns, and trees – all of which preserve and enhance the natural, surrounding landscape.

Prior to redevelopment, the site's storm water drained through the municipal storm drain system without treatment; however as a direct result of the new construction, precipitation is now captured and reused for irrigation and flushing toilets, as well as for managing pollution loads and diverting runoff.

Reliable Controls is very pleased to be recognized for our work in the area of sustainability.

Tracking Energy Consumption

Reliable controls Authorized Dealer

ALASKA Engineering Solutions recently installed the Reliable Controls MACH system within Genesis Washing Limited, a garment washing factory in Dhaka, Bangladesh, targeting green initiatives. This automated facility, which is focused on energy savings, is currently in the evaluation stage for LEED certification, and working towards a greener tomorrow.

From the start of this project until ALASKA commissioned the system, the primary goal was to provide the client with substantial information about their daily usage and energy saving data through implementing automation.

The client was provided a fantastic, customized dashboard showing complete energy consumption, including today, yesterday, month-to-date, and year-to-date. Integrated components included gas, water, electricity, and diesel.

Equipment installed in the project included:

- 7 MACH-ProSys Controller
- 33 MACH-ProPoint IO Exp.
- 3 MACH-Pro-Point Input Exp.
- 1 MACH-Pro WebCom

ALASKA Engineering Solutions

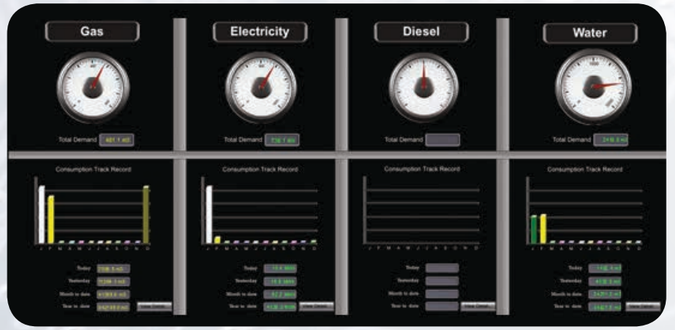
Genesis Washing Ltd. features:

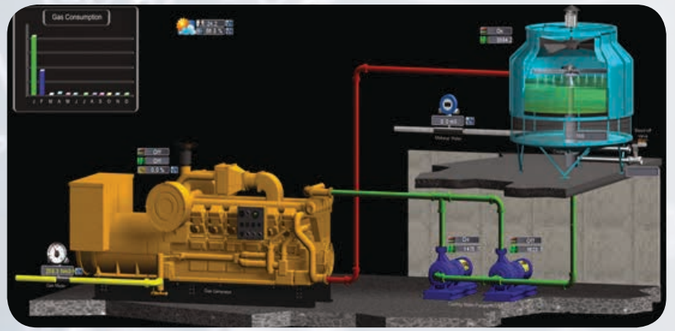
Over 400,000 square feet of production floor space

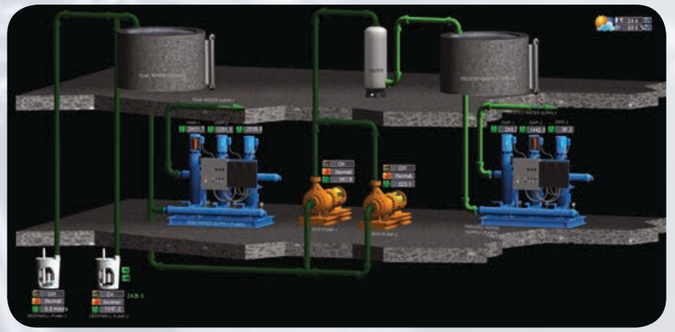
A state-of-the-art washing and garment dyeing facility

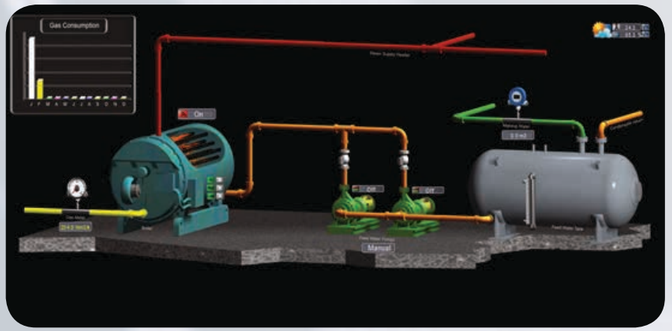
Specialization in fashion application

2,500+ modern machine facilities









Brigham & Women's Hospital

Boston, MA, USA

Health Care

Energy Conservation

Brigham and Women's Hospital (BWH) is an international leader in virtually every area of medicine, pioneering breakthroughs that have improved lives around the world. With multiple hospitals, the 41 Ave Louis Pasteur (41 ALP) building was formerly lab space, converted to a multi-use office facility located in the heart of Boston's Longwood Medical district.

Project Details

Reliable Controls® Authorized Dealer, Control Technologies, Inc., participated in an energy conservation program to update Brigham & Women's Hospital's 41 ALP building. The project featured a 51,000 GSF former lab building repurposed as office space with legacy 100% OA HVAC design. The decision to upgrade the building resulted from short-term renovation decisions based on the short life expectancy of the building, coupled with the building running 24/7 despite only Monday-Friday use.

The project consisted of 115 space-controlled zones, with mechanical equipment consisting of two types of VAVs, fin tube radiation, three types of fan coils, two types of package terminal air conditioners, reheat coils, and cabinet unit heaters. Some zones were fitted with occupancy sensors and/or CO2 sensors. A zone was any combination of the above equipment. The multiple I/O configurations of the MACH-ProZone allowed for a customized layout of all zones.

The energy savings include 472,020 kWh annual projected (36%), 43,262 therms annual projected gas (62%), and $101,478 energy cost savings, with a projected payback of 1.3 years. This project was part of an energy conservation program incentivized by NSTAR, and the project team was awarded an Outstanding Energy Project award from the Association of Energy Engineers.

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

Project Type:
Pneumatic Retrofit

Installation Type:
Boiler, Chiller, CO2 Monitoring, Fan Coil, Unit Heaters, Cabinet Unit Heater, Reheat Coils, Unit Ventilators, Fintube Radiation

Equipment Installed:
80 MACH-Pro Zone™
89 SMART-Sensor™ LCD
21 MACH-Pro Air™
4 SMART-Space Controller™
1 MACH-ProSys™
3 MACH-ProPoint™ IO

Network:
EIA-485

Integration:
BACnet

Total System Points:
800 points

Reliable Controls® Dealer:
Control Technologies, Inc.

www.reliablecontrols.com

BACnet

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