Authorized Dealer

Electrotech™ CONTROLS LTD

Eastern Institute of Technology

Project Profile

Market segment
Education

Location
Lockbourne, Ohio, United States

Total area
280,000 m² (3 million ft²)

Project type
Retrofit

Protocol
BACnet

Installation type
HVAC

The Eastern Institute of Technology (EIT) is a government-owned tertiary education institution and the major provider of higher education on the east coast of New Zealand's North Island. With campuses in Hawke's Bay, Auckland, and Gisborne, the EIT offers 130 programs ranging from foundation to degree and post-graduate levels.

Authorized Dealer Electrotech Controls installed a Reliable Controls building automation system during a retrofit at the EIT's Hawke's Bay campus. The new system controls air-conditioning units, air-handling units, radiant heating, sewage pumps, air curtains, air compressors, boilers, and extraction fans for smoke, washrooms, and automotive, welding, and painting booths. It also provides refrigerant gas detection, alarming, and recovery.

Total system objects
417

Installed equipment

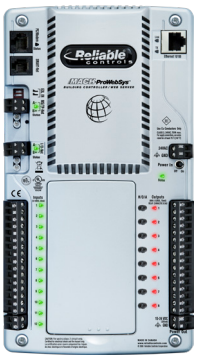
1 MACH-Pro1™ controller

2 MACH-Pro2™ controllers

1 MACH-ProSys™ controller

2 MACH-ProView™ LCD controllers

1 MACH-ProView™ LCD with Router controller

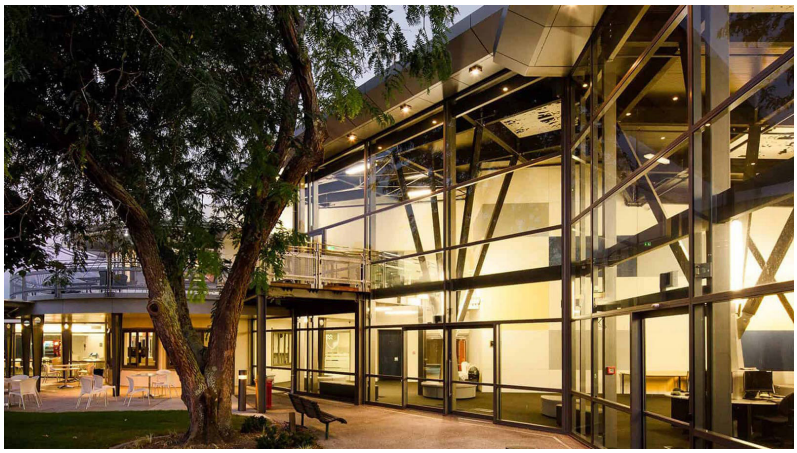


1 MACH-ProWebSys™ controller

2 MACH-ProZone™ controllers

A range of MACH-Pro devices control campus mechanical equipment, including MACH-Pro1, MACH-Pro2, MACH-ProSys, MACH-ProView LCD, and MACH-ProZone controllers. The MACH-ProView, available with a color touchscreen and a companion mobile app, is a freely programmable and expandable BACnet Building Controller with an onboard thermistor and optional CO_2, occupancy, humidity, and volatile organic compound sensors.

A MACH-ProWebSys delivers a cost-effective control solution that combines a BACnet Building Controller, a BACnet Operator Workstation, and a powerful web server in a compact package. With its built-in workstation, the MACH-ProWebSys eliminates the need for client license renewals and cloud services and provides EIT building operators with remote access to the control system, which means faster issue-response times and improved operational efficiency. Electrotech Controls created webpages that illustrate the building automation system across campus and programmed the system to force off air-conditioning units left on by mistake.



With RC-Archive software, the EIT owns and controls its building data and benefits from a dependable record of performance. RC-Reporter software extracts intelligence from that data with readable, reliable analytics that help building managers find opportunities to improve operational efficiency. Reports and emailed alarms provide important information to facility staff in a timely and efficient manner.

Installed software

Electrotech Controls also integrated third-party BACnet gateways with the new building automation system over BACnet TCP/IP to monitor and control air-conditioning units based on building occupancy and window-switch inputs.

The Reliable Controls system provides total site monitoring and allowed Electrotech Controls to seamlessly integrate several different technologies that had been updated on campus over the past 15 years without the need to replace hardware during the retrofit.

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