

HUME GLOBAL LEARNING CENTRE

MELBOURNE, VIC, AUSTRALIA

EDUCATION

LEARNING COMMUNITY

In Melbourne, Australia, the 18 million dollar Hume Global Learning Centre – Craigieburn recently opened for business to provide and improve access to learning and employment opportunities in the local community. The two story centre is home to the Craigieburn Library, a café, gallery, occasional childcare facilities, Craigieburn Council's Customer Service Centre on the ground level, and a conference and training centre on the upper level.

PROJECT DETAILS

Reliable Controls® Authorized Dealer, ElectCon, was awarded the contract to install the Building Automation System into the Hume Global Learning Centre – Craigieburn. The main floor is controlled by a MACH-ProWebCom™ controller that acts as the HTTP system server and quarterbacks two streams of functionality, each responsible for conditioning the main floor space by using a combination of MACH1™ and MACH-Air™ Variable Air Volume (VAV) controllers. Also present in the installation are two MACH-ProSys™ (MPS) controllers, one dedicated to the main floor plant and the other dedicated to the second floor. The main floor plant MPS employs Modbus to connect to both Mechanical Service Switch Board (MSSB) power meters that connect the ground and level 1 power meters – each meter measures power usage in its MSSB High Level Interface (HLI) and also connects to three MACH-ProPoint™ I/O modules for Chillers with two Variable Speed Drive (VSD) pumps and two boilers with two VSDs. The second floor MPS connects to nine MACH1™ controllers that are in turn connected to Air Handler Units (AHUs), as well as four MACH-ProPoint™ I/O modules for three Air Handler Units.

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PROJECT TYPE:
New Construction

INSTALLATION TYPE:
Boiler, Chiller, CO₂ Monitoring,
Fan Coil Unit, HVAC, Lighting, Power
Monitoring, VAV, Water Monitoring

TOTAL AREA:
3,500 m² (37,673 ft²)

EQUIPMENT INSTALLED:
1 MACH-ProWebCom™
2 MACH-ProSys™
7 MACH-ProPoint™
15 MACH1™
24 MACH-Air™
42 SPACE-Sensor™ Temperature

NETWORK:
EIA-485, Ethernet, LAN

INTEGRATION:
BACnet®, Modbus

TOTAL SYSTEM POINTS:
612 points

RELIABLE CONTROLS® DEALER:
ElectCon

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