ARCHIVES NEW ZEALAND

CHRISTCHURCH, NEW ZEALAND

OVERVIEW

Archives New Zealand holds over 7 million official records, from New Zealand's constitutional documents to government papers, data, maps, and films. The organization preserves and protects information, supporting transparency, accountability, and the rights of New Zealand citizens as well as being involved with other government and heritage agencies. Visitors can access Archives New Zealand reading rooms in Auckland, Wellington, Christchurch, and Dunedin.

PROJECT DETAILS

Authorized Dealer IES Group installed a Reliable Controls building automation system at the Wigram location of Archives New Zealand. Wigram is a suburb southwest of Christchurch.

A 2,000 m² archive storage stack in the facility maintains constant conditions through the use of variable-speed air-handling units with chilled- and hot-water coils, dehumidifiers, and humidifiers. IES Group installed 15 MACH-ProAir controllers for the air-handling units.

Mechanical equipment in the facility includes gas-fired boilers, air-cooled chillers, primary and secondary chilled water pumps, primary and secondary heating-water pumps, dosing pumps, air-handling units with hot/chilled water coils and actuators, outside air variable air-volume boxes, fan-coil units, exhaust fans, return air fans, and a mechanical services switchboard. The chillers are integrated using BACnet MS/TP; the dehumidifiers use BACnet/IP. IES Group connected the controllers through firewalls on several network layers.

The key drivers in the design of the facility were security, environment, efficiency, and flexibility for future expansion while meeting the national standards of the Archives & Records Association of New Zealand.

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MARKET SEGMENT
Government

PROJECT TYPE
New construction

INSTALLATION TYPE
HVAC

TOTAL AREA
3,000 m² (32,392 ft²)

PROTOCOL
BACnet, Modbus, proprietary gateway

EQUIPMENT INSTALLED
9 MACH-Pro1™ controllers
7 MACH-Pro2™ controllers
15 MACH-ProAir™ controllers
1 MACH-ProCom™ controller
1 MACH-ProWebSys™ controller
19 SMART-Sensor™ devices
RC-Archive® software
RC-Studio® software

TOTAL SYSTEM OBJECTS
800

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