

BISHOPDALE PRIMARY SCHOOL

CHRISTCHURCH, NEW ZEALAND

INTRODUCTION

Bishopdale Primary School offers a flexible learning space for 160 students in seven classrooms where children work collaboratively and have ownership of their learning. The school's values of caring, achieving, responsibility, and enthusiasm reflect its practices of cultural responsiveness and partnership in education.

PROJECT DETAILS

Authorized Dealer [IES Group](#) installed a Reliable Controls building automation system during construction of a new facility for the school.

The network architecture for the building includes 20 SMART-Space Controller devices with CO₂ and humidity sensors, a MACH-ProZone controller, five MACH-ProPoint expansion modules, and a MACH-ProWebSys controller. RC-Studio software provides a graphical user interface to the system that enables facility managers to control the slab temperature during cooling mode and the air temperature during heating mode.

Controlled mechanical equipment includes a heating/cooling plant, exhaust and ceiling fans, motorized window shades, a domestic hot water system, and a heat pump/chiller. Underfloor heating and cooling maintains comfortable conditions and is produced by a reverse-cycle heat pump/chiller.

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MARKET SEGMENT

Education

PROJECT TYPE

New construction

INSTALLATION TYPE

HVAC

TOTAL AREA

2,000 m² (21,528 ft²)

PROTOCOL

BACnet

TOTAL SYSTEM POINTS

200

EQUIPMENT INSTALLED

5 MACH-ProPoint™ expansion modules

1 MACH-ProWebSys™ controller

1 MACH-ProZone™ controller

20 SMART-Space™ Controller devices

RC-Archive® software

RC-Studio® software

RELIABLE CONTROLS AUTHORIZED DEALER

