

WEST ROLLESTON PRIMARY SCHOOL

ROLLESTON, NEW ZEALAND

INTRODUCTION

West Rolleston Primary School programs are underpinned with a vision of growing happy, healthy learners. Opened in 2016, the facility provides an innovative learning environment with flexible spaces that encourage collaboration and inquiry. The campus includes single-level learning spaces and administration and gym buildings, laid out to provide protection from the strong prevailing winds in the area.

PROJECT DETAILS

Authorized Dealer [IES Group](#) installed a Reliable Controls building automation system during construction of West Rolleston Primary School in 2015.

Each learning hub, administration block, and hall has an independent time schedule and holiday calendar to shut down HVAC equipment during unoccupied times as well as optimum start programs to circulate treated water.

Heat pumps operate according to lead/lag, with the sequence changed on Monday mornings. Freeze protection mode enables the circulating and heat pumps, and fan coil units serve the reception area. Electric heaters serve the hall, and extraction fans serve washrooms, the kitchen, general areas, and the hall. Automatic motorized windows and exterior lighting are controlled by ambient lighting sensors.

IES Group also installed 11 SPACE-Sensor Temperature devices with CO₂ sensors and eight energy-monitoring meters.

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MARKET SEGMENT:

Education

PROJECT TYPE:

New construction

INSTALLATION TYPE:

HVAC

TOTAL AREA:

4,875 m² (52,474 ft²)

PROTOCOL:

BACnet, Modbus, SMTP, SNMP

INSTALLED EQUIPMENT:

4 MACH-Pro1™ controllers

1 MACH-Pro2™ controller

2 MACH-ProSys™ controllers

1 MACH-ProWebCom™ controller

6 MACH-ProZone™ controllers

11 SPACE-Sensor™ Temperature devices

RC-Studio® software

TOTAL OBJECTS:

250 points

RELIABLE CONTROLS® AUTHORIZED DEALER:

