Reliable®
c o n t r o l s

UNIVERSITY OF TECHNOLOGY SYDNEY

SYDNEY, NSW, AUSTRALIA

EDUCATION

HIGHER EDUCATION

The University of Technology, Sydney (UTS), located in Sydney, New South Wales, Australia, was founded in its current form in 1988. The school is part of the Australian Technology Network of universities, and is the third largest university in Sydney in terms of enrollment.

PROJECT DETAILS

Recognizing that buildings of various ages on different networks would require unique controller arrangements, Reliable Controls® Authorized Dealer, Rega Controls, rose to the challenge of increasing comfort while reducing energy consumption for the three UTS campuses.

Beyond controlling a bevy of mechanical equipment across the city, Rega Controls installed the Reliable Controls® MACH-System to control the campus-wide centralized chilled water and hot water systems. To maintain additional tenant comfort, high velocity AHUs with new dual duct VAVs were installed. The dual duct VAV boxes each required two MACH-Air™ VAV controllers to ensure that the heating duct was closed while the cooling duct was on.

Conservative calculations have indicated a savings of 2,168.85 Tons of CO_2 over the past year, for just the UTS tower alone. According to Nabil Faysal, Manager of Engineering Services, Facility Management Unit UTS, the system has "exceeded our expectations in flexibility, and provided energy savings without compromising comfort."

To learn more about projects using Reliable Controls® visit
www.reliablecontrols.com/projects/overview

PROJECT TYPE:
Retrofit

INSTALLATION TYPE:
Boiler, Chiller, Fan Coil Unit, Fume Hood, Heat Pump, HVAC, Labratory, Lighting, Power Monitoring, VAV, Water Monitoring

TOTAL AREA:
225,095 m² (2,422,902 ft²)

EQUIPMENT INSTALLED:
3 MACH-ProCom™
8 MACH-Global™
13 ETHER-Link™
40 MACH-Stat™
48 MACH-Zone™
68 MACH1™
125 MACH2™
350 MACH-Air™

NETWORK:
EIA-485, Ethernet, LAN, WAN

INTEGRATION:
BACnet®, Modbus

TOTAL SYSTEM POINTS:
15,000 points

ENGINEERING CONSULTANT:
Engtec, Connell Wagner

RELIABLE CONTROLS® DEALER:
Rega Controls

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BACnet