

IBERO-AMERICAN UNIVERSITY

SANTO DOMINGO, DOMINICAN REPUBLIC

OVERVIEW

Founded in 1982, Ibero-American University (UNIBE) in Santo Domingo serves more than 5,000 students with 17 undergraduate programs and 45 postgraduate programs. UNIBE strives to be an inclusive, evolving higher-ed institution that fosters innovation and a positive impact on society. The university's strategic plan for 2018-2022 highlights technology and digital transformation as a means to achieve streamlined building management solutions and energy efficiency.

PROJECT DETAILS

Reliable Controls Authorized Dealer Anso SRL upgraded the facility automation system during a retrofit of UNIBE in 2018.

Anso connected a MACH-ProWebSys controller with four MACH-ProPoint expansion modules to the facility's LAN to operate the chilled water plant. Six MACH-ProWebCom controllers and 10 MACH-ProZone controllers control the air handling systems on campus. The building management system also includes chillers, a cooling tower, and variable frequency drives for fan operations integrated via BACnet/IP, and electrical power meters are connected to the Reliable Controls system using BACnet MS/TP. SMART-Space Controller devices service fan-coil units in the chiller-plant-equipment and remote-monitoring rooms.

The flexibility of RC-Studio software allowed Anso to integrate multiple third-party devices into the building automation system with ease. Today, building operators use RC-Archive software to collect data on water and energy use.

The challenge of this retrofit was to guide facility operators and support personnel to abandon manual operation of chilled-water-plant equipment and instead use only the equipment required to meet the demand on campus at any given moment, leading to cost and energy savings. Anso was pleased to provide an interoperable system with a simple interface that easily met the client's needs.

Reliable Controls is proud to be part of this project with Anso that improved operator and building efficiency at UNIBE.

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EDUCATION



PROJECT TYPE Retrofit

TOTAL AREA
29,878 m² (321,600 ft²)

INSTALLATION TYPE HVAC

EQUIPMENT INSTALLED

2 MACH-ProPoint™ Input expansion modules
2 MACH-ProPoint™ Output expansion modules
6 MACH-ProWebCom™ controllers
1 MACH-ProWebSys™ controller
10 MACH-ProZone™ controllers
2 SMART-Space™ Controller devices
RC-Archive® software
RC-Studio® software

NETWORK

EIA-485, Ethernet, B/VPN, WAN, wireless,
client's proprietary VPN

PROTOCOL BACnet

INTEGRATED EQUIPMENT

Armstrong parallel sensorless pump controller,
Trane chiller, Setra energy meters, Dunham-Bush
chillers, Danfoss variable frequency drives.

OBJECTS 153

RELIABLE CONTROLS AUTHORIZED DEALER

Anso

ASHRAE BACnet

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