

AKRON ART MUSEUM

AKRON, OH, USA

MUSEUM

UPDATING A LANDMARK BUILDING

The Akron Art Museum is a metropolitan art and cultural center, as well as an educational facility. Spanning three centuries, the Akron Art Museum combines a late nineteenth-century brick and limestone building with the twenty-first century John S. and James L. Knight Building, a soaring glass and steel structure by the celebrated Viennese architectural firm Coop Himmelb(l)au.

PROJECT DETAILS

Reliable Controls® Authorized Dealer, Control Concepts of Ohio, completed this retrofit project for the Akron Art Museum. This community facility encompasses several usage types, including exhibits, training, an auditorium, and corporate gatherings. Maintaining critical temperature and humidity control while bringing the new system online presented challenges, as did working with restrictive sensor and device locations and converting old pneumatic actuators to direct digital control actuators.

Networked hardware includes a MACH-ProWeb™ as a front-end device with MACH-Pro1™ and MACH-Pro2™ controllers serving the air handling units (AHUs). SMART-Sensor™ LCD devices are installed for all zone temperature/humidity sensors. MACH-ProAir™ controllers serve critical art storage zones and MACH-ProZone™ controllers serve all radiant floor loops and snow melt zones.

Mechanical equipment includes two chillers, two boilers, 12 AHUs with chilled water, hot water, reheat, outside air flow monitoring, and variable frequency drives (VFDs) on all fans. Two of the AHUs are VAV style with VAV boxes downstream. These units serve critical art storage areas.

The facility is currently a 24/7 operation. Critical environment control is of utmost importance for this community facility, and the MACH-System™ has done an excellent job achieving this goal.

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



PROJECT TYPE:

Retrofit

TOTAL AREA:

7,832 m² (84,300 ft²)

INSTALLATION TYPE:

Boiler, Chiller, Fan Coil Unit, HVAC, VAV, Radiant Floor Heating, Radiant Cooling, Snow Melt System

EQUIPMENT INSTALLED:

2 MACH-ProWebSys™
 2 MACH-ProCom™
 4 MACH-Pro1™
 9 MACH-Pro2™
 10 MACH-ProPoint™
 23 MACH-ProAir™
 4 MACH-ProZone™
 5 SMART-Space Controller™
 26 SMART-Sensor™ LCD

NETWORK:

EIA-485, WAN

INTEGRATION:

BACnet®, SMTP

RELIABLE CONTROLS® DEALER:

Control Concepts of Ohio

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