

DUBUQUE COUNTY COURTHOUSE

DUBUQUE, IA, USA

GOVERNMENT

UPDATING A LANDMARK BUILDING

The Dubuque County Courthouse is located in Dubuque, Iowa. The current building was built in 1891 to replace an earlier building that was built in 1839. The courthouse serves as the center of county government offices, and is a dominant landmark in the downtown Dubuque area. It is located at Seventh and Central Ave in Dubuque.

PROJECT DETAILS

Reliable Controls Authorized Dealer, FM Controls, Inc., recently completed this BACnet®, retrofit project to update the Dubuque County Courthouse, an example of the Beaux Arts Style of architecture.

This project was unique in that the building was placed on the *National Register of Historic Places* in 1971. As a result, part of the requirement was to complete this installation with a minimum amount of disturbance to the aesthetics of the building. A specific challenge of this project was that the walls are made of limestone and are 3-4 ft. thick in many areas.

The networked hardware in this project included 120 new hydronic heat pumps. FM Controls, Inc. implemented Reliable Controls SMART-Space sensors and EnOcean wireless signals to provide temperature sensing in the business offices, personal offices, court rooms, judges' chambers, and jury/lawyer waiting rooms. Additionally, the volume of water is monitored to provide usage details of the building's geothermal system, which is sent monthly to the State of Iowa Department of Natural Resources for their review and records.

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



PROJECT TYPE:
Retrofit

TOTAL AREA:
5,110 m² (55,000 ft²)

INSTALLATION TYPE:
Boiler, Chiller, Fan Coil Unit, Geothermal, Heatpump, HVAC, Water Monitoring

EQUIPMENT INSTALLED:
6 MACH-ProWebCom™
124 MACH-ProZone™
90 SPACE-Sensor™ EnOcean
83 SPACE-Sensor™ EnOcean Accesspoint
10 SPACE-Sensor™ Temperature

NETWORK:
Ethernet

INTEGRATION:
BACnet®

SYSTEM POINTS:
825

RELIABLE CONTROLS® DEALER:
FM Controls, Inc.