

CARROLL COUNTY COURTHOUSE

CARROLLTON, OHIO, UNITED STATES

INTRODUCTION

Built in 1884, the Carroll County Courthouse was placed on the National Register of Historic Places nearly a decade later in 1974. With Corinthian columns and a projecting cornice, the building is constructed mostly of Navarre sandstone and was designed by architect Frank Weary. A two-story rear wing was added in 1976 to provide more room for the county jail and an annex for county officials.

PROJECT DETAILS

Reliable Controls Authorized Dealer Control Concepts of Ohio (CCO) installed an economical, flexible building automation system during a retrofit of the courthouse. CCO replaced the existing pneumatic system with a digital one that provides reliable control of the building's HVAC equipment.

CCO implemented MACH-ProWebSys and MACH-ProSys controllers to control three 20-ton multizone air-handling units with DX cooling decks and a hot-water heat deck. MACH-ProZone controllers expanded with MACH-ProPoint Input/Output modules control zone-mixing dampers and zone-damper positions. The MACH-ProZone controllers are remotely located in the space to collect temperature data for zone-temperature panels connected via MS/TP.

Mechanical equipment in the building includes two steam boilers with a hot-water heat exchanger. The new building automation system controls sequence-of-operation programming for a 30-ton chiller and the steam plant, including supply of heat to older parts of the facility.

Carroll County administrators are pleased with the cost savings in natural gas and electricity achieved with the Reliable Controls system.

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PROJECT TYPE

Retrofit

MARKET SEGMENT

Administration and Corrections

INSTALLATION TYPE

HVAC

TOTAL AREA

60,000 m² (645,835 ft²)

PROTOCOL

BACnet

INSTALLED EQUIPMENT

**8 MACH-ProPoint™
Input/Output expansion modules
2 MACH-ProSys™ controllers
1 MACH-ProWebSys™ controller
4 MACH-ProZone™ controllers
23 SPACE-Sensor™ Temperature devices**

TOTAL SYSTEM OBJECTS

160

RELIABLE CONTROLS AUTHORIZED DEALER



CONTROL CONCEPTS OHIO

