



CASE STUDY

BUILDING AUTOMATION CONTRACTORS

American Museum of Natural History

Overlooking Central Park, between 68th and 74th Street, Manhattan's American Museum of Natural History houses many of the greatest exhibits in the world. Priceless artifacts and various one-of-a-kind exhibits fill the spaces within the 150 year-old granite and marble walled museum. Curators pay special attention to the environmental conditions within these walls to assure the artifacts contained within are preserved.

American Auto-Matrix Pinnacle Series controllers. Each controller monitors environmental conditions and controls the HVAC system including the cooling, heating, humidification, and ventilation systems to assure critical space conditions are met.



Project Specs:

Owner and Developer:
American Museum of Natural History

Engineer:
Ambrosino De Pinto and Schmider (Renovation)
Altieri Sebor Wieber (Planetarium)
James & Leonard P.C. (Anthropology)

Mechanical Contractor:
PECO, Inc. (Renovation)
Grand Mechanical Corp. (Anthropology)

Construction Manager:
AMEC

When it comes to critical environmental temperature, humidity and pressure control, T.E.C. Systems Inc., designing, installing and commissioning HVAC control systems since 1981, know how to meet these stringent demands.

To meet the Museum's requirements, T.E.C. installed a system of stand-alone, networked

In the event of mechanical equipment failure or other system anomalies, building operating personnel are immediately notified through message boards at multiple Graphical User Interface computers, while custom written software routines execute emergency operation modes and activate redundant HVAC systems. The GUI stations also allow building engineers to modify system parameters, run maintenance and trend reports and perform scheduling functions for special events and loner exhibits. All of these high-speed communications are possible through a

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American Museum of Natural History (continued)

facility-wide Ethernet network which links the GUI stations to the field controllers.

Additionally, this site includes Auto-Matrix's Oritor communication network, which allows for direct communication to ABB Variable Frequency Drives, Trane package HVAC units, York chillers, and is BACNET and LonWorks enabled for future connection to third party open systems.



Honeywell

TEC.SYSTEMS INC.

T.E.C. Systems Inc. is a full service, New York based, automation controls contractor, specializing in the design and implementation of computerized Building Automation Systems.

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