

SECTION 25 50 00 {13800}

INTEGRATED AUTOMATION FACILITY CONTROLS

{BUILDING AUTOMATION AND CONTROL}

This section includes central building management system to supervise temperature control, energy management, fire and smoke alarm, and other building systems.

Manufacturers listed in this section were identified as representative and not as an endorsement for meeting this specification. For additional product information, visit 4Specs at www.4specs.com, ARCAT at www.arcata.com, First Source at www.reedfirstsource.com, SpecSource at www.specsource.com, and Sweets Network at products.construction.com.

This section includes performance, proprietary, and descriptive type specifications. Edit to avoid conflicting requirements.

Contact the CSRF Support Center at supportcenter@csrf.org to submit comments or suggestions for improvements to this specification. Visit the SPECTEXT web site at www.spectext.com for current product announcements.

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes central processing units, data storage units, data terminal units, data communication units, remote control units, data interface units, communication cable and system software.
- B. Related Sections:
 - 1. Section 23 09 00 - Instrumentation and Control for HVAC: For interface with HVAC control devices.
 - 2. Section 23 09 23 - Direct-Digital Control System for HVAC: For interface with HVAC control devices.
 - 3. Section 23 09 53 - Pneumatic and Electric Control System for HVAC: For interface with HVAC control devices.
 - 4. Section 25 31 00 - Integrated Automation Instrumentation and Terminal Devices for Facility Equipment: For interface with electrical controls and relays.
 - 5. Section 25 36 13 - Integrated Automation Power Meters: For interface with electrical sensing and measurement devices.
 - 6. Section 26 05 03 - Equipment Wiring Connections: Execution requirements for electric connections specified by this section.
 - 7. Section 26 09 23 - Lighting Control Devices: For interface with lighting controls.
 - 8. Section 26 24 19 - Motor-Control Centers: For interface with motor controllers.
 - 9. Section 28 13 00 - Access Control: For interface with security access devices.
 - 10. Section 28 16 00 - Intrusion Detection: For interface with intrusion detection devices.

11. Section 28 23 00 - Video Surveillance: For interface with video surveillance devices.
12. Section 28 31 00 - Fire Detection and Alarm: For interface with fire alarm and smoke detection devices.
13. Section 40 94 43 - Programmable Logic Process Controllers: For interface with programmable logic controllers.

C. Related Sections:

1. Section 13429 - Electrical Sensing and Measurement: For interface with electrical sensing and measurement devices.
2. Section 13448 - Electrical Controls and Relays: For interface with electrical controls and relays.
3. Section 13451 - Programmable Controllers: For interface with programmable logic controllers.
4. Section 13710 - Intrusion Detection: For interface with intrusion detection devices.
5. Section 13720 - Security Access: For interface with security access devices.
6. Section 13750 - Video Surveillance: For interface with video surveillance devices.
7. Section 13851 - Fire Alarm: For interface with fire alarm and smoke detection devices.
8. Section 15905 - HVAC Instrumentation: For interface with HVAC control devices.
9. Section 15910 - Direct Digital Controls: For interface with HVAC control devices.
10. Section 15920 - Pneumatic Controls: For interface with HVAC control devices.
11. Section 16150 - Wiring Connections: Execution requirements for electric connections specified by this section.
12. Section 16443 - Motor Control Centers: For interface with motor controllers.
13. Section 16149 - Remote-Control Switching Devices: For interface with lighting controls.

1.2 REFERENCES

List reference standards included within text of this section. Edit the following for Project conditions.

A. American Society of Heating, Refrigerating and:

1. ASHRAE 135 - BACnet - A Data Communication Protocol for Building Automation and Control Networks.

1.3 SYSTEM DESCRIPTION

Use this article carefully; restrict statements to describe components used to assemble system. Do not repeat statements made in SUMMARY article; "Section Includes" paragraph.

A. Building Management System: Distributed process control system consisting of central control, central communications, and remote control systems to monitor and control the following building systems:

1. Heating, ventilating, and air conditioning systems control.
2. Smoke control.
3. Energy management.
4. Building and exterior lighting.