

SECTION 28 10 00  
ELECTRONIC ACCESS CONTROL

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Section specifies access control devices, interface devices, and accessories indicated, specified or required for access control capability for this Project and includes, but not limited, following:
  - 1. Connection and control by existing campus wide Facility Commander management system located at another campus location.
  - 2. Rough-in backboxes, conduit and wiring.
  - 3. Doors to receive access control devices are identified in Section 08 71 00 - Hardware Sets for ALL floor levels of building 90.

1.02 SUBMITTALS

- A. Product Data: Manufacturer's technical data sheets on each product to be used.
- B. Shop Drawings: Provide complete shop drawings that include the following:
  - 1. Point-to-point diagram of device locations.
  - 2. Detailed schematic wiring diagrams for devices; include cable type, conductor routings, quantities and connection details at devices.

PART 2 - PRODUCTS

2.01 MANUFACTURERS AND PRODUCTS

- A. Acceptable Manufacturers and Products: Subject to compliance with requirements of Contract Documents, manufacturers offering products that may be incorporated into Work include those listed alphabetically below:
  - 1. ADT.
  - 2. Assa Abloy
  - 3. Ingersol Rand.

2.02 PRODUCTS - GENERAL

- A. Compatibility: Access control devices, control devices, interface devices, and accessories indicated, specified, or required for access control shall be compatible with existing campus-wide Facility Commander management system.

2.03 HARDWARE

A. Control Panels:

1. Description:

- a. Surface mounted.
- b. UL listed under UL 294 and UL 1076; FCC Part 15 and CE compliant.
- c. Direct on-board support for industry standard dial-up modem.
- d. Industrial grade enclosure with knockouts for field wiring with key-locked and tamper protected door.
- e. Low voltage power supply with uninterruptible battery backup allowing continued operations for a minimum of 4 hours at full load.
- f. Support on board and/or expansion interface boards for access control readers.
- g. Support hard-wired connections to readers, including power and communications.
- h. Support cards currently in use.

2. Basis of Design: GE Security, M3000 PXNplus series.

B. Card Readers:

1. Description:

- a. Recess mounted.
- b. UL listed under UL 294; ISO15693.
- c. Proximity type.
- d. UL 94 polycarbonate enclosure.

2. Basis of Design: HID, An Assa Abloy Group brand.

C. Door Sensor Contacts: Surface-mounted magnetic type on existing frames to remain. Recessed type on all new frames.

2.04 RACEWAYS

- A. Comply with Division 26 specifications for raceways, boxes and accessories

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.
- B. Examine roughing-in for piping systems to verify actual locations of piping connections before equipment installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Install devices in accordance with manufacturer's specifications, referenced practices, guidelines and applicable codes. Furnish all necessary interconnections, services and adjustments required for a complete and operable system as specified.
- B. Wiring in rooms with ceilings may be installed without conduit, but in rooms without ceilings wiring shall be installed in dedicated conduit and shall not be pulled into conduits or placed in raceways, compartments, outlet boxes, junction boxes, or similar fittings with other building wiring.
- C. Locate control panels in Low-Voltage Rooms.

**END OF SECTION**