



## SECTION 16720

### TELEPHONE ENTRY SYSTEMS

Elite Dial Code LC & LF

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Telephone entry systems by Chamberlain, including the following:
  - 1. Telephone entry control devices.
  - 2. Application software.

##### 1.2 RELATED SECTIONS

- A. Section 13700 - Access Control Systems.
- B. Section 16050 - Basic Electrical Materials and Methods.

##### 1.3 REFERENCES

- A. NFPA 70 - National Electrical Code.
- B. FCC Regulations - Part 68.
- C. Canadian Department of Communications.

##### 1.4 REGULATORY REQUIREMENTS

- A. System shall be UL-Listed.

##### 1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Manufacturer's Data: Submit copies of the following:
  - 1. Product Data Sheets.
  - 2. Installation Instructions.
  - 3. Authorized Dealer Certificate and Certified Training Certificates of installers who will be working on this project.
- C. Shop Drawings: Submit the following:
  - 1. Access system layout and locations, including size requirements.
  - 2. Detailed wiring diagrams of access equipment.
  - 3. Load calculations of all equipment for proper sizing of electrical provided by the customer and standby emergency generator circuits.
- D. As-Built Drawings: Update Shop Drawings to create final As-Built Drawings. Submit 3 copies and digitally in AutoCAD 14 or later format on a CD (3 copies).
- E. Operation Data: Include three (3) copies of the software Administrator and Operator Manuals.

- F. Maintenance Data: Include maintenance and repair procedures.

## 1.6 QUALITY ASSURANCE

- A. Manufacturer: The telephone entry control system shall be from a single-source manufacturer that specializes in telephone entry control systems with a minimum of 5 years experience.
- B. Installer: Company specializing in telephone entry control systems with a minimum of three years experience on systems of similar size and scope. Technicians working on project must have been certified on the hardware and software used for this project.

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Owner will provide, on-site, a secure, dry, locked storage area for all equipment delivered under this scope of work.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

## 1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: The Chamberlain Group, Inc., which is located at: 845 Larch Ave. ; Elmhurst, IL 60126; Toll Free Tel: 800-282-6225; Fax: 630-993-6024; Email: [request info](#); Web: [www.chamberlain.com](http://www.chamberlain.com)
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

### 2.2 TELEPHONE ENTRY SYSTEMS

- A. Telephone Entry/Access and Perimeter Control System:
  - 1. Acceptable Product: Chamberlain Elite Dial Code LC
  - 2. Acceptable Product: Chamberlain Elite Dial Code VF.
  - 3. Controller: For perimeter access not requiring a tenant call feature.
    - a. Acceptable Product: Dial Code Controller.
    - b. Remote Access Device: RS485 with 32 zone controls, 32 user groups and 32 time zones.
    - c. Programming: Controller unit equipped with built-in modem, communicator card and software for direct and remote programming.
  - 4. Memory Chip Capacity: Field upgradable capacity from 25 to 1,000 codes.
  - 5. Standard Features:
    - a. Programming: Central processor is removed from enclosure for programming.

- b. Readers: Two memory card slots and one Remote Communicator card slot.
  - c. Keycode Access: Maximum 6-digit residential access codes.
  - d. Resident Dialing: Maximum 3 digits codes to connect to residential units.
  - e. Speaker: System mutes speaker during dialing for security.
  - f. Microphone: System ignores touch tones through microphone for security.
  - g. Access: Resident controlled access by dialing "5" for door or "9" for gate.
  - h. Tone/Pulse Dialing: System can be site configured to DTMF or rotary output from the tenant's phone.
  - i. Programmable Talk Time: Visitor/tenant talk time adjustable for 20, 40, or 80 seconds.
  - j. Programmable Relay Times: Two independent 7-day timers per relay output for door and gate control.
  - k. Voice Guided Assistance: Provides user with voice assistance with system features including keycodes and dialing procedures.
  - l. Non-Volatile Memory: In event of power failure, database information is retained in memory allowing immediate start-up and operation when power is restored.
  - m. Utility Keycodes: 60 programmable utility keycodes per system; independent time zones and day of week restrictions per utility code; independent expiration date per code; one time use utility flash code.
  - n. Transaction Monitoring: Maximum of 8,000 transactions (date, time, unit ID and transaction) stored in unit are retrievable for record of on-site activities.
  - o. Battery backed clock/calendar including daylight savings and leap years.
  - p. Postal Lock Ready: Postal Lock Kit integrates with US Postal Service Lock (acquired from US Postal Service) to allow postal carriers access to controlled area.
  - q. Lightning Protection: Installer shall provide external surge suppressors in addition to surge protection inherent in the entry system.
6. Optional Features: Provide the following:
- a. Programming:
    - 1) Acceptable Product: ElitePro Software.
    - 2) Adjustable access levels for each user and each individual zone.
    - 3) Individual zones controlled via predetermined time schedule.
    - 4) Remote programming via modem.
    - 5) Control devices programmable for tenant or maintenance personnel only.
  - b. Communicator Card: Card allows addition of maximum of 31 remote access devices.
    - 1) Acceptable Product: RS485 Communicator Card.
    - 2) Memory Capacity: 4K.
    - 3) Memory Capacity: 8K.
    - 4) Memory Capacity: 16K.
  - c. Remote Access Devices: Provide the following remote access devices.
    - 1) RS485 Remote Access Keypad.
    - 2) RS485 Remote Access Card Reader.
    - 3) RS485 Remote Access Radio Receiver with Remote Transmitter.
    - 4) RS485 Remote Access Translator Board for interface with 26-bit Wiegand controls.
  - d. Wireless Communicator: Provide the following remote access devices.

- 1) Acceptable Product: EWC485 The Wireless Communicator.
- 2) Compatibility: Compatible with Dial Code systems manufactured after January 3, 2005.
7. Dimensions: 16-7/16 inches (418 mm) high by 11 1/4 inches (286 mm) wide by 3-3/16 inches (81 mm) deep.
8. Electrical Specifications:
  - a. Power Output: 12 VAC, 1.6 amp UL Listed wall plug transformer.
  - b. Output Relays: Two output relays with independent strike times; both relays have all contacts accessible (NC, NO, C).
  - c. VCR Lapse Time: Relay output for 5-second VCR time lapse recording per authorized access.
  - d. Surge Protection:
    - 1) Powerline Surge Protection: 5000V.
    - 2) Phoneline Surge Protection: 800V
  - e. Immunity: Immune to 25,000V electrostatic discharge.
  - f. Power Backup: System battery provides full functionality for up to five hours. System includes non-volatile memory and non-volatile clock.
  - g. Operating Environment:
    - 1) Temperature: Minus 4 to 165 degrees F.
    - 2) Relative Humidity: 5 to 95 percent (non-condensing).
9. Enclosure: Rain-resistant, double box enclosure with built-in keyboard.
  - a. Front Panel: 16 gauge stainless steel.
  - b. Display: High resolution 2-line liquid crystal display; lighted keypad.
  - c. Display: Super-bright resolution 2-line vacuum fluorescent display; lighted keypad.
  - d. Mount: Surface mount.
  - e. Mount: Flush mount.
  - f. Freestanding Mount for Automobiles: EliteTower1.
  - g. Freestanding Mount for Pedestrians: EliteTower2.
10. Warranty: Three years.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 INSTALLATION

- A. Install system in accordance with manufacturer's instructions.
- B. Install wiring for detection and signal circuit conductors in conduit. Use 22 AWG minimum size conductors.
- C. Make conduit and wiring connections to existing door hardware devices as required.

### 3.3 PROTECTION

- A. Protect installed products until completion of project.
- B. Repair or replace damaged products before Substantial Completion.

END OF SECTION