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## Alarm Lock Trilogy Series Lockset Specification

### Alarm Lock

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### Product Guide Specification

***Specifiers:*** Click on the ¶ icon in the WORD toolbar to reveal detailed instructions

**DISCLAIMER:** Specification requires the sole professional judgment and expertise of the qualified Specifier and Design Professional to adapt the information to the specific needs for the Building Owner and the Project, to coordinate with their Construction Document Process, and to meet all the applicable building codes, regulations and laws. Alarm Lock (A Napco Security Group Company) expressly disclaims any warranty of merchantability or fitness for particular purpose of the product or project.

## SECTION 28 15 00 ACCESS CONTROL HARDWARE DEVICES

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
1. Standalone Access door locks that shall contain keypad and/or prox reader. Lock model styles include cylindrical, mortise, dual-sided and exit trims.
  2. Standalone Access door locks that shall communicate serially with a database for a comprehensive door access control system.
  3. Standalone Access door locks that provide battery power, not requiring power transfer through the frame/door.
  4. DL-Windows Access Control software and accessories associated with the electronic digital door lock. This DL-Windows Access Control software and all future updates are provided to the owner at no charge. All hardware and firmware is flash upgradeable.

#### 1.2 REFERENCES

- A. National Fire Protection Association (NFPA):
1. NFPA 70; National Electrical Code - The standard for the safe installation of electrical wiring and equipment in the United States.
  2. NFPA-80: The standard for Fire Doors and Windows.
  3. NFPA-101:Life Safety Code
- B. American National Standards Institute (ANSI):
1. ANSI A156.1 - American National Standard for Butts and Hinges.

#### 1.3 SUBMITTALS

- A. Product Data
1. Submit manufacturer current technical literature for each type of product.
- B. Shop Drawings:
1. Include details, dimensions, and attachments to other work.
- C. Finish Hardware Schedule:
1. Coordinate finish hardware schedule with project Door Hardware Consultant
  2. Coordinate hardware with doors, frames and related work to ensure proper size, thickness, hand, function and finish of hardware. Organize hardware schedule into "hardware sets" indicating complete designations of every item required for each door or opening; and include the following information:
    - a. Type, style, function, size and finish of each hardware item.
    - b. Name and manufacturer of each item.
    - c. Fastenings and other pertinent information.
    - d. Location of hardware set cross-referenced to indications on drawings both on floor plans and in door and frame schedule.
    - e. Explanation of all abbreviations, symbols, codes, etc.

- f. Mounting locations for hardware.
  - g. Door and frame sizes and materials.
- D. Keying requirements for digital locks shall be coordinated with the owner and /or architect by an authorized Alarm Lock representative.
- E. Templates: Successful bidder shall furnish hardware templates to the door and frame manufacturer to insure proper preparation for the installation of hardware. Check approved shop drawings to confirm adequate provisions have been made for the proper installation of items.
- F. Wiring Diagrams: Complete system wiring diagrams for all digital locks and controls shall be prepared and provided by the hardware manufacturer, and include lock functions, monitoring requirements, color coded conductor locations, and conductor connections.

#### 1.4 QUALITY ASSURANCE

- A. Qualifications
- 1. Manufacturer:  
The manufacturer shall have a minimum of ten years of experience in the production of Door Hardware.
  - 2. Installer:  
The installer shall be authorized by the manufacturer.
  - 3. All components must be installed by a certified Alarm Lock installer trained in the application of all specified components and applications specified.

#### 1.5 DELIVERY, STORAGE & HANDLING

- A. Delivery and Acceptance Requirements:
- 1. Mark or tag each item of hardware, with identification related to final hardware schedule, and include basic installation instructions with each item or package.
  - 2. Wrap and crate finished components and assemblies to prevent damage to finished items.
  - 3. Deliver individually packaged hardware items at the proper time and location (shop or project site) for installation.
  - 4. Deliver pertinent items requiring being built-in to the General Contractor or trades in accordance with construction progress to prevent any delay.
  - 5. Determine and coordinate the openings for delivery and installation of equipment.
- B. Storage and Protection: Storage and Protection:
- 1. Hardware received, but not installed shall be placed in secured storage. Control handling to prevent losses and delays before and after installation.
- C. Key Delivery:
- 1. Keys for mechanical key override shall be issued by the owner upon completion of training by a certified Alarm Lock representative.

#### 1.6 WARRANTY

- A. Manufacturer's Warranty:
- 1. All components of the digital lock system shall be warranted against defects for two years after installation. Any component found defective will be replaced by the manufacturer.
  - 2. Compliance with warranty will require that the Contractor maintain the following services:

- a. A full-time, dedicated technician who is factory trained and certified.
- b. A field representative who will call on the end user on a regular basis to provide service.
- c. Company warehousing capability within a 250 mile radius of end user with dedicated inventory.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

A. List of approved manufacturers:

1. Alarm Lock  
333 Bayview Ave.  
Amityville, N.Y. 11701  
Phone (631) 842-9400  
Fax (631) 789-3383

### 2.2 ASSEMBLY

- A. Access Control Locks to be Trilogy series as manufactured by Alarm Lock of Amityville, NY.
- B. Locks shall conform to ANSI A156 Grade 1
- C. Provide configuration of lock as required by hardware group:
  1. Cylindrical lock type
    - a. Digital keypad only – Model Series DL2700
    - b. Digital keypad only – Model Series DL2700LD (Classroom Lockdown w/Indicator)
    - c. Digital keypad only – Model Series DL2800
    - d. Digital keypad only – Model Series DL3000
    - e. Digital keypad only – Model Series DL3200
    - f. Digital keypad only – Model Series DL4100 (Privacy/Lockout)
    - g. Proximity/keypad – Model Series PDL4100 (Privacy/Lockout)
    - h. Digital keypad only – Model Series DL5200 (Dual-Sided)
    - i. Digital keypad only – Model Series DL5300 (Dual-Sided)
    - j. Proximity/keypad – Model Series PDL5300 (Dual-Sided)
    - k. Proximity/keypad – Model Series PDL3000
  2. Mortise lock type
    - a. Digital keypad only – Model Series DL2700CR (Classroom)
    - b. Digital keypad only – Model Series DL2700DB (Deadbolt)
    - c.
    - d.
    - e. Digital keypad only – Model Series DL3500 (Classroom/Deadbolt)
    - f. Proximity/keypad – Model Series PDL3500 (Classroom/Deadbolt)
    - g. Digital keypad only – Model Series DL4500 (Privacy/Lockout)
    - h. Proximity/keypad – Model Series PDL4500 (Privacy/Lockout)
  3. Exit Device Trim type
    - a. Digital keypad only – Model Series ETDL27 (Keypad only)
    - b. Proximity/keypad – Model Series ETPDL (Prox and Keypad)
    - c. Digital keypad – Model Series DK3000 (Wall mounted)
    - d. Proximity/Keypad – Model Series PDK3000 (Wall mounted)
- D. Programming:

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1. All programming, including user credentials, scheduling and audit trail retrieval, shall be performed using Alarm Lock DL-Windows software version 5.5.3x or higher.
2. Communication of all programming from computer containing Alarm Lock DL-Windows software to locks shall be through serial communications.
3. Digital keypad locks to be fully keypad programmable.

E. Lock features:

1. Locks to be battery powered by standard off the shelf batteries (AA or C size), providing 3-4 years battery life, under normal operating conditions.
2. Locks shall be stand-alone battery operated units, not requiring power transfer through the frame/door.
3. Locks to support up to 2000 users with 3-6 digit numeric PIN code, or HID format proximity credential, or both for dual credential requirement.
4. Locks to support up to 500 event schedules.
5. Locks to support in non-volatile memory 40,000 event audit trail.
6. Locks to be weatherproof (storage temperature range of -31 to +151 degrees Fahrenheit).
7. Locks shall have an operating temperature range of -4 to +140 degrees Fahrenheit.
8. Locks shall continue to operate as last instructed including maintaining schedules and audit trail, independent of building network system failure.
9. Locks shall adjust schedules automatically to correspond with daylight savings time.
10. Locks shall have remote release capability through hard-wired connection.
11. Locks shall have a single pole, double throw relay output to provide external functions through hard-wired connection.
12. Locks shall be Dual-Sided.
13. Digital Keypads shall be all metal and 12 buttons.
14. Locks shall perform a Classroom Lockdown using one keyfob and include a lockdown indicator.
15. Locks shall include a Privacy function for use in restrooms, classrooms and other private areas.
16. Locks shall include a narrow stile trim for all glass/aluminum doors.
17. Locks shall be field upgradeable into Wireless Networked Network locks.

F. Software:

1. Software to be Alarm Lock DL-Windows supporting 2000 locks per system account.

G. Security Mode:

1. Security is the essence of this section. Normal operation will require battery power to operate the Trilogy locks. Emergency mechanical key override shall be provided in the event of battery failure (except for keypad only unit).

H. Registration of Codes and Credentials/Security Management:

1. All codes and /or credentials shall be recorded by the DL-Windows software-based program specific to the building site.
2. Every code and/or credential issued by the owner shall be entirely unique to that user to whom it is issued. Cards and fobs identified and protected by type and facility code.
3. System to provide for audit trail of 40,000 events/lock and up to 500 lock/unlock schedules with time zone support.
4. System to be managed from a single computer utilizing the DL-Windows software 5.5.3X version or higher.
5. Provide construction codes to the contractor during the building's construction period.
6. Construction codes shall self-disable at a specified time and date and shall not require any physical modification of the lock or cylinder.
7. In the event the construction period is longer or shorter than originally planned, locks shall be re-programmable to conform to the schedule change.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. All components shall be programmed in the full operational mode as instructed by the owner.

### 3.2 CLOSEOUT ACTIVITIES

- A. Refer to Division 01 "Closeout Procedure's" section or sections for activities related to the close out procedures including operations manuals, maintenance, demonstration, and training requirements.
- B. Training:
  - 1. A certified Alarm Lock representative (distributor or manufacturer based) shall provide training to the owner for the purpose of software set up and maintenance of the digital lock system.

**END OF SECTION**