ELECTRONIC KEYCARD ACCESS LOCKS

Presented by

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YESTERDAY WAS MECHANICAL

- Manual Key Control
  - Pinning charts
  - Manual record keeping
  - Inventory of keyways
  - "DO NOT DUPLICATE"
  - Key cutting machine
  - Keys cut improperly

Today is Electronic

- **Computerized Key Control**
  - Electronic Database
  - Automatic record keeping
  - Inventory of keycards
  - User name assigned to the keycard
  - Keycard Encoder
  - Keycard code verified when encoded
  - New keycard recodes lock upon insertion

PRIMARY BENEFITS

- Lock is re-keyed upon insertion of new Keycard
- Stand alone battery power eliminates hard wiring
- Lower installation cost since there's no wires to pull
- Keycards are identified by NAME or NUMBER
- Memory keycards remember where they have been
- Control entry by assigning specific times
- Lock captures date, time, and ID of who entered
- Multiple levels of Master Keying available
- Permits mechanical key override using IC Cores

HISTORY

- ◈ 1970's First battery powered locks arrive
  - Used Optic Technology
  - Punched hole cards
  - Easily duplicated
  - Small Microprocessor 8k
  - 8 Keycard levels
- ◈ 1980's First Magnetic Keycards arrive
  - Magnetic Stripe eliminated keycard duplication
  - Keycards became reusable
  - Audit trail is added with 14 audits
  - Relative time is added
  - Keycard ID is added
  - Microprocessor grows 32k
  - 16 keycard levels

MORE HISTORY

- Microprocessor grows to 64K
- Audit trail grows to 40 audits
- Time parameters are added

◆ 1990's

- Hardware becomes available to effectively secure most openings
- Microprocessor grows to 128K
- Audit trail grows to 250 audits
- LED Diagnostics is added
- Motors replace solenoids

STILL MORE HISTORY

- Exterior applications become standard
- Automatic deadbolt is introduced
- Smart Card technology arrives
- Memory Card Technology arrives
- 2000's
  - Expanded Memory arrives
    - Audit trail grows to over 5,000 audits
  - Bi-directional communication arrives
  - Systems interfacing becomes common place
  - Windows Operating System replaces DOS

LOCK SPECIFICATIONS

- ## Mortise Lock
  - ◆ 1 inch "Automatic Deadbolt"
  - ◆ ANSI Grade 1 equals 800,000 cycles
  - ◆ UL Listed for 3 hours
  - ◆ Available with knobs and/or levers
  - ◆ 600 pound shearing point
    - ■ Access is still denied
  - ◆ Accepts Interchangeable Core mortise cylinder
  - ◆ Available with 1 inch or 1¼ inch lock front
  - ◆ Selection of designs and finishes

SYSTEM SPECIFICATIONS

- **Computer Selection**
- **User friendly Windows software**
  - On-site Training
  - Factory Training
  - Interactive Training CD
- **Keycard Encoders**
  - Motorized
  - Insertion
  - Swipe
- **Handheld Lock Programmer**
- **Emergency Lock Power Supply**
- **Electronic Lock**

ELECTRONIC LOCK FEATURES

- 16 Levels allows for application specific design
- Timed access
  - Assigned onto the keycard
  - Assigned to the lock
- Keycard Identification
- Multiple Zones
- Multiple Masters
- Inhibit Keycards
- Electronic Lockout
- Limited Use Keycards

MORE FEATURES

- Emergency Keycard
- Dual Keycard ~ High Security
- Mechanical Key Override
    - Accepts Interchangeable Core Cylinders
- Auto Latch ~ Auto Unlatch
- LED Diagnostics
- Interface Capabilities
- Multi-Technology
    - Lock Accepts Magnetic Stripe Keycards
    - Lock Accepts Memory Keycards
    - Lock Accepts Smart Keycards

ANCILLARY HARDWARE

- Remote Controllers
  - Elevators
  - Narrow stile aluminum & glass doors
  - Power assisted doors
- Exit Devices
  - Rim Devices
  - Vertical Rod Devices
- Magnetic Locks
- Electric Strikes
- An Authorized Keycard can open all doors

ENDLESS APPLICATIONS

- Energy Control
- Wireless Bi-directional Communication
- Point of Sale
- Photo Identification
- Auto feed encoders
- System Interfacing
- Customer Service 365 ~ 7 ~ 24

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