CyberLock®

Electronic key-centric access control system

CyberLock is a key-centric access control system that provides full featured access control to every locking point in a facility without wiring.

How It Works
A Simple Step-by-Step Process

CyberLock®

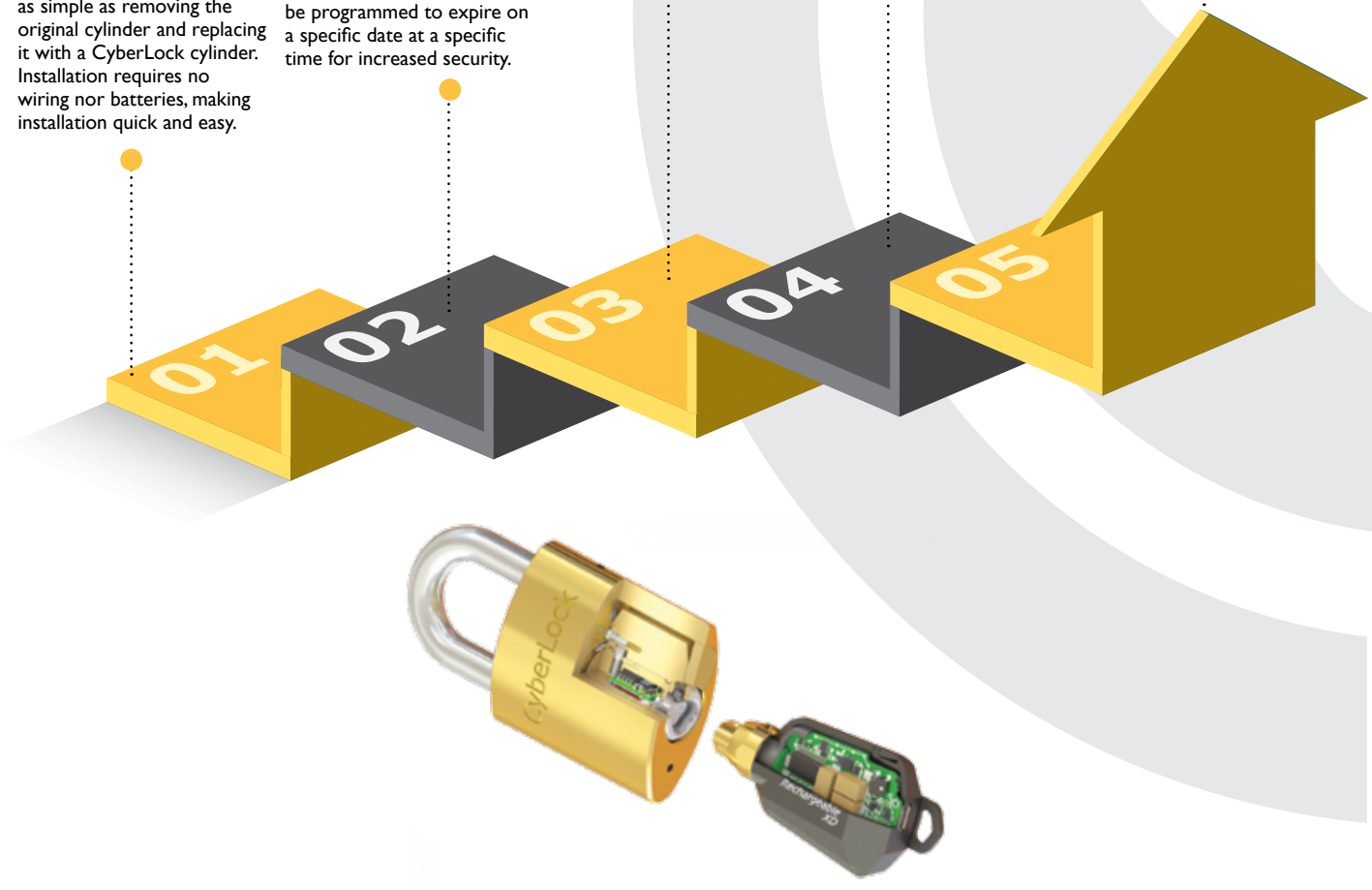
Step 1
Replace existing mechanical cylinders with CyberLock cylinders. Each CyberLock is an electronic version of a standard mechanical lock cylinder. Installation is as simple as removing the original cylinder and replacing it with a CyberLock cylinder. Installation requires no wiring nor batteries, making installation quick and easy.

Step 2
Assign a CyberKey to a user. Keys are programmed with access privileges for each user. A standard key holds a list of locks the user may open, with a schedule of days and times when access is allowed. For instance, the key can be programmed to allow access from 8 a.m. to 6 p.m. on weekdays and 10 a.m. to 4 p.m. on Saturdays. It can also be programmed to expire on a specific date at a specific time for increased security.

Step 3
Access locks. When a CyberKey meets a CyberLock, the cylinder is energized and an information exchange occurs to determine if the key has access to that specific cylinder. The event and time is stored in both the lock and key. Lock cylinders and keys also record when an unauthorized attempt to open a lock occured.

Step 4
Download audit trails and update keys via Communicator devices. Expiring keys regularly ensures users frequently update their keys. When validating keys, the system downloads the audit trail and uploads new access privileges to the key. An e pired key will not work until it is updated.

Step 5
View audit trail. The CyberLock system is managed centrally through CyberAudit software. Customized audit reports and automatic notifications on suspicious activities can be automatically generated via email.



CyberKey Programmable Smart Keys

CyberKey smart keys are designed with highly durable fiberglass-reinforced casings and are programmed with access permissions for each key holder.

Electronic keys store individual key holder access permissions.

Design

Efficiently packaged in highly durable fiberglass-reinforced cases.
- Power from key energizes cylinders.
- Rechargeable or replaceable battery options are available.
- Saves thousands of access events to key memory.

Security

Administrators may set expirations to minimize risk due to lost or stolen keys.
- Keys contain encrypted access codes that bind key to one system.
- Scheduling can range from standard to custom schedules.
- Keys cannot be duplicated.

Smart Key Features

- Contains a unique ID that cannot be changed or duplicated
- Has the ability to store thousands of access events:
- Lock ID
- Date & Time
- Event Type
- Carries access schedules for the specific key holder
- Retains encrypted access codes that bind the key to a specific system
- Includes a battery which energizes both the key and each lock it touches

Permissions and Schedules

Each key contains a specific list of authorized locks and a schedule of when they may be accessed. For example, a key can be programmed to allow access to one or several locks from 8 a.m. to 6 p.m. on weekdays and 10 a.m. to 4 p.m. on Saturdays. Keys presented outside of this schedule are denied access.

Key Expirations

Keys can be assigned a start date and an expiration date. This means keys can be issued before they become active, and can be set to expire at a specific time in the future. Key holders must reauthorize keys before access will be granted again. Setting short-term expiration dates is an excellent way to minimize risk due to lost or stolen keys.

When a CyberKey Meets a CyberLock

When it first makes contact, a key energizes a lock. A split second exchange of information determines if the key is at an approved lock within an authorized time frame. Access is then either granted or denied and that action, along with a date and time stamp, is recorded to the memories of both the key and the lock.

CyberLock Electronic Lock Cylinders

High security electronic lock cylinders provide beyond-the-door capabilities.

Design

Over 370 electromechanical cylinders have been designed for doors, cabinets, padlocks, containers, equipment, safes, and more.

- Cylinders retrofit into existing mechanical hardware.
- No wiring or battery required at the lock.
- Controlled access with audit trails provided even during power outages.
- The most recent 1100 access events are saved to cylinder memory.

Security

Unlike mechanical pin-based locks, CyberLock cylinders have a unique design that negates standard lock picking tools.

- Encrypted access codes bind cylinder to one system.
- Unchangeable unique ID within each cylinder cannot be duplicated.
- Multiple high-security options are available.

CyberLock cylinders easily retrofit into existing hardware and they are the exact dimensions of the mechanical lock cylinders they replace. The absence of a conventional keyway means they are not vulnerable to traditional lock picking techniques. As CyberLock cylinders needs no power or wiring, they are ideal for everything from an office building to mobile or remote assets.

Electronic Cylinder Features

- Contains a unique ID that cannot be changed or duplicated
- Has the ability to store over a thousand access events:
- Key ID
- Date & Time
- Event Type
- Retains encrypted access codes that bind the lock to a specific system

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Cylinders for Doorways

Retrofit knob and lever locks that accept Schlage® 6-pin and Yale® 6- or 7-pin format cylinders. Rim, mortise, and European profile cylinders are also available.

CyberLock Padlocks

Manage access to cargo bays, trucks, gates, control boxes, and more. Cylinders include additional protection against the elements for padlock applications.

Cylinders for Cabinets

The compact size of CyberLock cam locks makes them ideal for securing desk drawers, fare boxes, jewelry display cases, medical cabinets, and server racks.

IC Cylinders

Easy-to-install interchangeable core cylinders work on door and cabinet applications.

CyberPoints for Checkpoints

A CyberPoint is an electronic tag used as a data checkpoint. Each touch of a CyberKey stores a date and time stamp record in both the CyberPoint and the key. CyberPoints are designed for guard tours, maintenance checks, and inspections.

High-Security Drill-Resistant Cylinders

A number of CyberLock cylinders incorporate additional safeguards such as drill- and tamper-resistant features. These cylinders are ideal for financial applications such as cash-in-transit, vending machines, parking meters, and ATM machines.

Custom Applications

Over 350 CyberLock designs have been created to date. Contact us to see if we have a cylinder that fits your application. If not, let's talk about designing one that does.

Communicators

CyberLock communication devices serve as the interface between CyberLock hardware and CyberAudit management software.

Serve as the interface between CyberLock hardware and CyberAudit management software. Communication devices download the audit trail from the key and simultaneously update it with new schedules, permissions, and system information.

Options

Having a variety of communicator options available allows organizations to create the right balance between convenience and security.

- IR Encoders and USB Stations connect directly to an available USB port.
- WebStations and CyberKey Authorizers connect over a network from remote locations without a computer.
- CyberKey Vaults store unprogrammed keys until programmed and released to an authorized user.
- Smartphones enable remote employees to update keys in the field

Access privileges are distributed to key holders via communicators. These devices are linked to the software over a local area network or securely over the Internet. When a CyberKey and communicator make contact, the audit trail is downloaded from the key while simultaneously new schedules, permissions, and system information are uploaded to the key. To increase security and accountability, access privileges can be programmed to expire at scheduled intervals. This results in users regularly updating and reauthorizing keys at communicators. Several communicators are available to address individual, facility, and personnel needs:

Communicator Features:

- Key activity downloads and key permission updates occur simultaneously.
- Communicator compatibility depends on the version of CyberAudit software installed.
- Several communicators offer multiple functions, such as charging the key battery or storing unprogrammed keys.

CyberAudit Software

CyberAudit software is available in two software packages: Enterprise Basic and Enterprise 8.0.

Manages both the CyberLock, key-centric solution, and the hardwired Flex system simultaneously. CyberAudit software is available in two software packages: Enterprise Basic and Enterprise 8.0. Both software versions are categorized by the number of key holders and can manage thousands of users and locks.

Basic

Enterprise Basic is an excellent choice for small-to-medium-sized companies that need key control and reporting. It brings a few of the essential features of Enterprise 8.0 in an easily manageable platform. Basic is designed to manage about 500 locks and 500 keys.

Features

- Set schedules for when authorized locks may be accessed.
- Download detailed audit trails of lock and key access activity.
- Expire and/or deactivate keys.
- Configure automatic email notifications on access activity.
- Manage multiple key mode and delay capability.
- Access through a LAN or securely over the Internet.

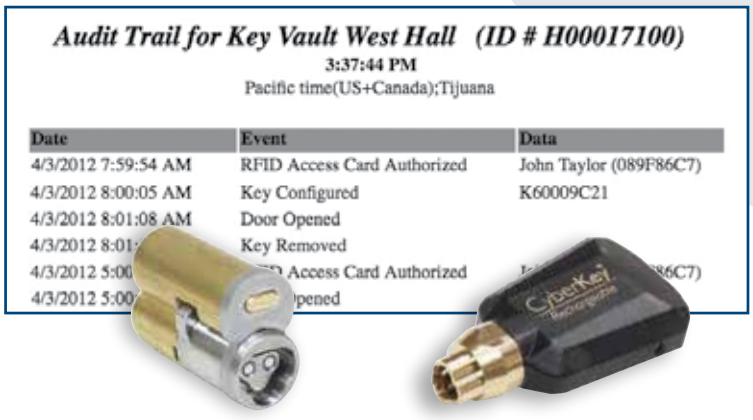
Enterprise

The full version of Enterprise 8.0 is a feature-rich management software, ideal for large, complex, and geographically wide-spread installations. Enterprise 8.0 offers all of the features of Enterprise Basic as well as advanced options like Bluetooth and Wifi CyberKeys, and the ability to share locks with other Enterprise 8.0 users. Enterprise is ideal for large, complex, and geographically widespread installations. Enterprise is designed to manage about 15,000 locks and 15,000 keys.

CyberAudit software manages both the CyberLock, key-centric solution, and the hard wired Flex System simultaneously. The software enables the user to program access permissions, view audit trails of all locking points, and manage CyberLock hardware.

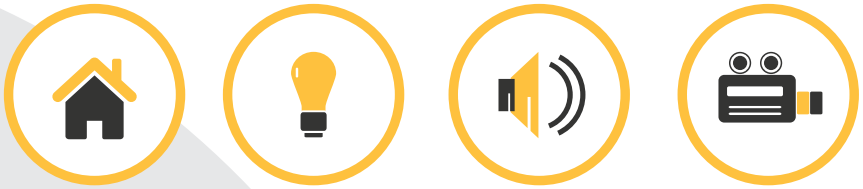
Features

- Perform all of the functions found in Professional.
- Spread responsibility through a hierarchy of administrators across multiple locations and time zones.
- Grant emergency one-time access or program and download keys in the field for on-demand access.
- Schedule missions.
- Share lock access with another Enterprise system.
- Integrate with other software applications.



CyberLock Flex System

The Flex System enhances the CyberLock product line by adding the capability to control a variety of access control and security elements using both Flex System modules as well as third party access devices:



Open a door Activate a light Sound an alarm Activate a camera

How does Flex work?

The Flex System is comprised of a variety of modules that can be mixed and matched to create a custom access control system. The modules are plugged into a Hub which is directly connected to CyberAudit management software.

The Flex System Hub

The Flex System Hub connects with CyberAudit software and provides power to the Flex System modules. Embedded memory in the Hub stores access permissions and saves audit trail information, enabling continuous operation even when a network connection to the software is interrupted. Moreover, power outages can be mitigated by connecting a back up battery or auxiliary power source directly to the Hub.

The Flex System Modules

There are a variety of Flex System modules
available for a customized access control system:

- Input modules such as RFID readers and Keypad Displays can be used individually or combined for dual-credential door access.
- Weather resistant key vault modules can be installed in the field to securely store CyberKeys for convenient remote employee access.
- The multi-function Keyport module simultaneously activates electric door strikes and updates CyberKeys.

The Flex System Door & I/O Module

The Door & I/O module expands the capabilities of the Flex System even further. As a door controller, it provides power to an electric door strike and unlocks it when an approved key card is presented. It has additional inputs and outputs that can control relay devices such as alarms, speakers, cameras, or sensors. Finally, it can connect to compatible third party Wiegand devices such as HID readers and biometric scanners.

Innovative Solutions for Real World Security

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