An optimum Electronic Access Solution (EAS) is comprised of three basic elements: an access control device, an intelligent electronic lock and remote monitoring. Together, these components provide a complete solution for electronic access.

**System Components**

**Access Control**

The access controller serves as the human interface. It validates the user credential and provides a secure signal to open the electronic lock.

**Intelligent Locks**

Upon receipt of a valid electronic signal, the electronic lock performs the lock/unlock function and provides an output of its status to external monitoring systems.

**Remote Monitoring**

Electronic Access Solutions have the unique ability to capture an electronic “signature” for each access attempt. This information can be output to a variety of devices to monitor access locally or remotely.

[www.southco.com/EAS](http://www.southco.com/EAS)
Southco’s Electronic Access Solutions are specifically designed for enclosure access, and seamlessly integrate with existing systems to provide a complete solution for physical security and access control. Our EAS products are designed to work together to provide a comprehensive, reliable system for electronic locking to help meet the following goals:

- **Remote monitoring and control**
- **Enhanced user convenience**
- **Improved industrial design**
- **Elimination of key management issues**
- **Compliance with industry regulations**
- **Increased physical security**

**System Integration**

From a simple switch to a more advanced software-based, wired or wireless networked access control system, Southco provides a range of integration options to meet your system requirements.

- **Self-Contained Solutions** offer simple, drop-in installation and programming to provide access control and electronic locking in a single unit, without the need for wiring.
- **Standalone Solutions** offer basic plug-and-play access control without the need for software or network administration, but do not provide remote, networked monitoring and control.
- **Integrated Solutions** can be combined with building access control and monitoring systems to incorporate enclosure level access control into existing security systems.
- **Independent Networked Solutions** can be used to monitor and manage access across networks from a host computer for remote system configuration, access control and the monitoring of multiple access points.

**Equipment Access**

**Building Access**

**Network**

**Remote Monitoring**
Something you have

Cards, badges or a key already used by the individual can be combined with existing building security systems to control access.

Something you know

Keypads offer a simplified method of limiting access to individuals based on something they know, namely a PIN or passcode.

Something that is you

Access control can be something as exclusive to the individual as a biometric identifier or even a cell phone – something that is uniquely “you”.

Southco’s electronic locking devices can be combined with existing access control systems or we can provide solutions for access control depending on the unique requirements of the application.
The electronic lock is the most critical component of an electronic access system, as the entire system is dependent upon the lock’s function. There are several key factors to include when choosing an electronic lock.

### Physical Application Requirements

- **Operating Load**: How much load can the lock operate against mechanically?
- **Strength**: How much load will the lock be required to withstand?
- **Operation**: Is push-to-close functionality desired?
- **Industrial Design**: How important are aesthetics to the overall design?
- **Environmental**: Is the lock exposed to the elements such that it requires sealed electronics?
- **Security**: Does the lock need to be concealed?

### Relocking Options

- **Automatic Relocking**
  - Spring-loaded cam design allows a lightweight door to easily “pop open” when signal is received
  - Immediately returns to the locked state and is ready to relock upon closing

- **Delayed Relocking**
  - Lock can be held in unlocked state as long as signal is present
  - Allows a door to be opened and closed several times without needing to provide credentials at each instance
  - Suitable for heavier doors that will not kick open easily or where remote lock/unlock manual door opening is preferred

### Relocking Options - Physical Application Requirements

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### Relocking Options - Performance Requirements

- **Industrial Design**: How important are aesthetics to the overall design?
- **Environmental**: Is the lock exposed to the elements such that it requires sealed electronics?
- **Security**: Does the lock need to be concealed?

### H3-EM Electronic Locking Swinghandle

Integrated access control reader and lock for complete physical security

### R4-EM 5 and 7 Series

Reliable operation resistant to moisture and dust

### R4-EM 8 and 9 Series

Varying levels of integrated intelligence and functionality

### EM-05 E-Keeper

Compact design works with existing mechanical latches for electronic access

### SC Self-Contained

Access control device, electronic lock, electrical override and power supply in one unit
Security System Integration (SSI) Kit integrates with existing building access control for equipment level security for remote monitoring and audit trail.

**Status Feedback Requirements**

- **Door Status**: An integrated door sensor determines if the door is open or closed.
- **Lock Status**: Communicates whether the system is electronically locked or unlocked.
- **Latch Status**: A signal communicates if the lock is mechanically in the open or closed state.

**Electrical Requirements**

- **Current Consumption**: Southco’s efficient locking solutions typically operate under 500mA and only during actuation.
  - Minimizes wiring
  - Lowers control system costs
  - Reduces power supply requirements
- **Voltage Regulation**: Compatible with a range from 12 to 24 volts, the lock regulates the voltage provided for efficient operation.
- **Integrated Intelligence**
  - Microprocessor control
  - Lock status sensing
  - Circuit protection

**Manual Override**

A manual override system can provide access in the event of a system power failure. Southco offers solutions for both mechanical or electrical override.

**R4-EM 4 and 6 Series**

Compact, lightweight design for limited space applications.

**EM-10 E-Keeper**

Versatile configuration to upgrade existing mechanical locks and can be orientated in any direction.

www.southco.com/EAS
Electronic locks facilitate remote monitoring and can be networked with security systems to monitor and control access locally or remotely. Southco’s Electronic Access Solutions allow you to:

- Grant access from a remote location
- Generate audit trail records of access attempts and door status
- Provide input to other automated systems

This information, together with additional security and environmental data, can be output to a variety of devices from simple indicator lights to networked, software-based remote monitoring systems.

**Partners**
Southco, along with our solutions providers, can provide end-to-end solutions for your application.

**Data Security Compliance**

Southco’s Electronic Access Solutions provide a record of indisputable evidence that can be used to meet physical security requirements and demonstrate compliance with regulatory requirements such as:

- Payment Card Industry Data Security Standard (PCI DSS)
- Federal Information Security Management Act (FISMA)
- Health Insurance Portability & Accountability Act (HIPAA)
- Critical Infrastructure Protection Act (CIP)
- Sarbanes–Oxley (SOX)
Southco Customer Service and Technical Support

Americas Global Headquarters
Concordville, PA - USA
Tel: (1) 610 459 4000

Europe Headquarters
Worcester - UK
Tel: (44) (0) 1905 346722

Asia Headquarters
Hong Kong - China
Tel: (852) 3127 1503

Brazil
Tel: (55 11) 4617 9988
Canada
Tel: (1) 905 855 0309
Mexico
Tel: (1) 877 821 0666
USA
Tel: (1) 610 459 4000

Fast Answers 24/7
info@southco.com

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