



SECUREALL SECURITY REINVENTEDSM

Cylindrical Door Reader SA-CDR w/Card Option



Electrical specifications

Users	Up to 70,000
Audit Trail	6 mos. data stored in server, typical
Credential Verification Time	< 50ms
Visual/Audible Interface	LED and audio beeper
System Interface	SA-Guardian Application Server
Power Supply	4 standard AA alkaline batteries
Battery Life	4 years, typical ; 100K openings
Exterior Operating Temperature	-10° C to +70° C or +14° F to +158° F
Interior Operating Temperature	-10° C to +55° C or +14° F to +131° F
Certifications/Compliance	FCC Part 15 B&C
Reader Technology:	
Hands free UKey:	Hands-free, wireless, PKI, AES
Contactless Smartcard:	ISO 14443, sector cryptography
Bluetooth /Smartphone:	Bluetooth (BLE)
Reader Frequency	2.4 GHz and 13.56 MHz
Reader Range	UKey: 1" to 30 ft, programmable Card and BLE: 1"
Communication Security	PKI, AES-128
Encryption Keys	Device specific, customer controlled
Wireless Communication Protocol	Proprietary: Extreme low power (ELP) protocol & 802.15.4; 14443
Reader/Router Handshake	Automatic
Firmware Updates	PKI; over-the-air
Electrical Warranty	2 years

Features & Benefits

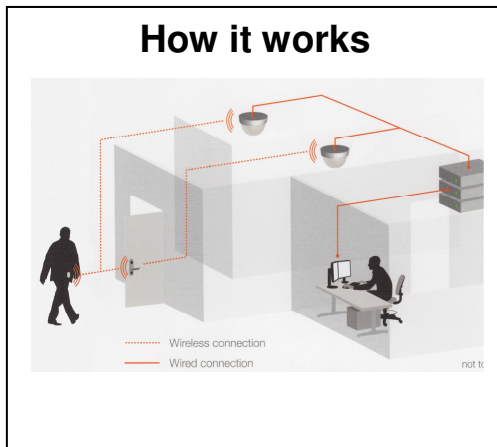
- Hands-free, multi-distance access
- Proximity and Smartcard
- Long range, hands-free asset tracking
- Real-time, extreme low power communication => long battery life
- All access decisions at the door; does not require server link
- Multi-layer hard encryption: PKI +AES
- Device specific encryption keys, controlled by system owner
- Remote & local lockdown
- Over-the-air firmware upgrades
- Manual & programmable office mode
- Integrated door ajar and tamper sensor
- Remote unlock
- No software or lease licenses

Mechanical specifications

Handing	Universal, non-handed; ADA compliant
Certifications/Compliance	ANSI/BHMA A156.2 Grade 1; UL10c-3 hour
Door Thickness	1-5/8" to 2"
Backset	2-3/4"
Latches	Stainless steel, 17/32" throw
Lever Design	Sentinel
Lever Functionality	Clutched (free wheeling)
Strikes	ASA strike
Keying	Hands-free U-Key™, Card, BLE
Function	Passage, privacy, entry, classroom, storeroom; other functions available upon request
Case Material	Satin stainless steel (630)
Dimensions	O/S 9-3/8" x 3-1/8" x 27/32"
Vandal Protection	Integrated tamper sensors
Door Ajar Alarm	Integrated deadlatch sensor
Mechanical Warranty	2 years

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SA-CDR Options



Keying	In addition to U-Key™ operation: 10-key pushbutton; BEST or SARGENT SFIC keyway
Lever Design	Quest
Lever Functionality	Non-clutched
Finish	Satin brass (606) Oil rubbed bronze (613) Satin nickel (619) Satin chrome (626)
Strike	T-Strike, Full-lip
Outdoor Usage	Weatherized
Saniguard	Antimicrobial coating

Frequently asked questions

- 1. Do locks come with access options other than a U-Key™?** This lock supports SecureALL U-Key™, Proximity and Smartcard credentials. Options are available to add a cost effective 10-button keypad and/or a mechanical (SFIC) key cylinder.
- 2. Where does access control information reside in the system?** The SA Guardian automatically sends this information to each applicable lock. The lock is then fully capable of making access control decisions without going back to the Server. As locks are battery operated, doors will continue to function, even in the event of a power failure.
- 3. What is tracking capability?** Each lock has the built-in ability to automatically track a hands-free U-Key™ (person or asset) as it passes by the door. It can optionally be turned on.
- 4. How many lock units can be controlled by a single router?** There is no limit to the number of doors that can be controlled by a single router (limited only by building construction) and no licenses are required.
- 5. Can a U-Key™ unlock a door when approached from inside?** SecureALL locks are designed to know whether a U-Key™ is located inside or outside a room. Therefore, a door can never unlock by accident when approached from inside, i.e. looking through a door peephole.
- 6. Does the system send a low battery alarm?** When batteries in any of the system components reach a programmed minimum level, an individual designated by the system administrator is notified, via the client screen, email or text message, that batteries must be changed.
- 7. What level of encryption is incorporated in the system?** SecureALL utilizes multiple levels of encryption (PKI and AES), first to ensure that any equipment being added to a customer's system is genuine, and then to guarantee that end-to-end communication between all layers is secure at the highest possible level. Customers have complete control over encryption keys.
- 8. Can a door be unlocked if the batteries are dead?** An auxiliary power supply is available that energizes the door lock, allowing an authorized U-Key™ entrance to a room.
- 9. Lock installation tools?** Ordinary workbench tools; no special programmer or cable.