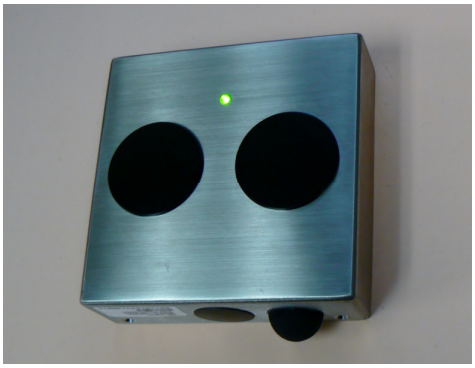
SECUREALL SECURITY REINVENTED℠

Panic Wall Reader SA-PWR

(designed for new and retrofit installation with a panic exit door utilizing electric latch retraction)



Features & Benefits

- **Hands-free, multi-distance access**
- **Long range, hands-free asset tracking**
- **No cable required between PWR and I/O Adapter**
- **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**
- **Remote unlock**
- **No software or lease licenses**

Electrical specifications - PWR

Users	Up to 70,000
Audit Trail	6 mos. data stored in server, typical
Credential Verification Time	< 50ms
Visual Interface	LED
System Interface	SA-*Guardian* Application Server
Power Supply	4 standard AA alkaline batteries; or 12-24VDC
Battery Life	4 years, typical
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, wireless
Reader Frequency	2.4 GHz
Reader Range	CAT 5 wired, 1000'; Wireless, 100'; programmable
Communication Security	PKI, AES-128
Encryption Keys	Device specific, customer controlled
Wireless Communication Protocol	Proprietary: Extreme low power (ELP) protocol & 802.15.4
Reader/Router Handshake	Automatic
Firmware Updates	PKI; over-the-air
Electrical Warranty	2 years

Mechanical specifications - PWR

Keying	Hands-free U-Key™ ; Proximity and Smartcard; Bluetooth
Function	Entry, classroom
Case Material	Satin stainless (630)
Dimensions	O/S 4-3/4" x 4-3/4" x 1-1/4"
RF Directional Control	0° ± 30° , programmable
Mounting Options	Double gang electrical box mounted directly to a flat wall; glass mounted on a window; mounted on a door frame
Vandal Protection	Integrated tamper sensors
Outdoor Usage	Weatherized; must use mechanical backing plate and caulking
Mechanical Warranty	2 years

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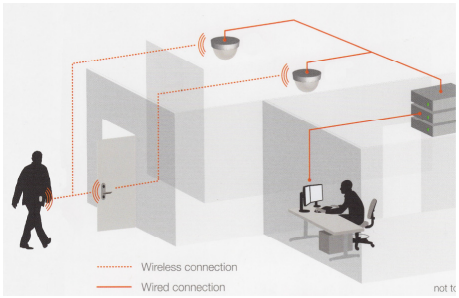
How it works



Electrical Specifications - I/O Adapter

Power Supply	12-24 VDC, .1A
Operating Temperature	-10° C to +55° C or +14° F to +131° F
Input Ports	Quantity = 3; Dry contact; < 1000Ω
Output Ports	Quantity = 2; Dry contact; Max 24VDC, .1A

Mechanical Specifications - I/O Adapter

Case Material	Plastic
Dimensions	O/S 4-7/8" x 1-15/16" x 1"
Mounting Options	Inside electrical control box; wall mounted near electrical control box
Mechanical Warranty	2 years

Frequently asked questions

1. **What does the PWR kit comprise?** A PWR wirelessly controls a door that is typically used for building entrance and has an electric strike, a latch retractor or ADO (Automatic Door Operator). The kit is contains a PWR and an IO-Adapter. The IO-Adapter provides dry-contact output to the door electric controller. The PWR connects to the server via a wireless link to a nearby router.
2. **How are the PWR and I/O Adapter connected?** The PWR can be connected to the I/O Adapter with either a CAT5 cable or via wireless communication if running a cable is not feasible.
3. **How is the PWR reader directionality changed?** The RF beam can be configured, via a remote configuration command, to be broadside or steered +/- 30° to point in the direction of the desired user entry path.
4. **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.
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 though 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?** No. The batteries however can be changed on the PWR as it is mounted using security screws on exterior side of controlled space.