

PROXESS

## Overview

The Proxess® C-series locks were designed to transform the locking industry. The C-series represents a vision accomplished...to create an intelligent, Grade 1 lock competitively priced to standard mechanical, Grade 1 locks that is simple to install and maintain while refusing to compromise the goal of bringing the most advanced features ever supplied in any type of lock – mechanical or electronic.

The Proxess system utilizes both an intelligent lock and an intelligent card/credential. The intelligent credential is microprocessor-based which means it operates much like a hand-held computer except at the price of an access control card. Proxess uses the credential's intelligence to communicate between the system software or server to off-line locks, creating a virtual network of communication to the lock.

The C-series lock is also intelligent. It is equipped with a low-power, Bluetooth® module, allowing it to network with Proxess Bluetooth wireless systems and mobile (phone) credentials. This allows system administrators to use either the intelligence of the card, (Network-on-Card) or update the system to a Bluetooth network of system communication without any modification to the lock. This Bluetooth communication system (BlueIQ®) allows the system administrator to communicate to locks when desirable, temporarily turning off-line locks into on-line devices.

Our virtual network allows unique features such as time schedules, audit trail, emergency lockdown, immediate "rekey", blacklist, automatic lock and unlock, calendar, holidays and firmware updates.

# Features and Benefits

	Bluetooth technology on-board which allows lock networking, mobile credentials and emergency lockdown upgrades with no modification to the lock
	Unlike mechanical locks, Administrators can decide who entered a door (audit trail), when someone is authorized to enter locks (time schedule) and can electronically rekey instantly saving costly and expensive mechanical rekeys.
	Installs in minutes without additional holes or door prep.
	Simple, field reversible, lever handing in seconds.
	Our new battery technology design provides up to 4 year battery life, double industry standard.
	Emergency mechanical key over-ride. Patent pending process which monitors emergency mechanical key operation.
	Network-On-Card, smart credential, virtual network automatically updates system when card accesses an on-line Proxess door or USB device.
	Utilizes Mifare DESFire EV2, the latest and most advanced RFID contactless smart credential technology. Proxess further protects credential communication by utilizing 128bit AES encryption and custom electronic keying for each account.
	Mobile programming device updates lock without cumbersome device programming. Administrator can forward programming capability to other MPD devices on another side of campus or around the world utilizing Proxess' Proxy patent-pending technology.
	Clutch mechanism provides added vandalism protection.

# C1 RFID Lock Specifications

<b>Certifications:</b>	ANSI 156.2 and ANSI 156.25 Grade 1; UL10C Fire-Rated; FCC Part 15 A & B
<b>Connectivity:</b>	<ul style="list-style-type: none"> <li>• Bluetooth Communication up to 100 feet.</li> <li>• RF and Network-on-Card RF = 1 ½"</li> <li>• Mobile Programming Device Up to 100 feet.</li> </ul>
<b>Users:</b>	Unlimited
<b>Audits:</b>	5000 Rotating
<b>Time Schedules:</b>	Unlimited
<b>Latch Backset:</b>	Standard 2 ¾"; Option: 2 3/8"
<b>Door Thickness:</b>	1 3/8" to 2"
<b>Strike:</b>	Standard 1 3/16" lipped t-strike; Optional ANSI 1 ¼" x 4"
<b>Escutcheon Dimensions:</b>	<ul style="list-style-type: none"> <li>• Outside = 5.5" X 3.62" X 1.33" (140mm x 92mm X 33.7mm)</li> <li>• Inside = 7.56" x 3.5" x 1.33" (192mm x 88.9mm x 33.7mm)</li> </ul>
<b>Operating Temperature:</b>	ANSI Standard -31 to 151F (-35~66 C)
<b>Functions:</b>	Storeroom, Entrance, Classroom, Emergency (Intruder) Classroom; Apartment, Dormitory/Privacy, (Temporary) Construction
<b>Emergency Mechanical Keying:</b>	Standard 7-pin, Special Pick-Resistant, Interchangeable Core, Custom Keying.
<b>Lock Reader:</b>	RFID 13.56 MHz, ISO 14443A
<b>Visual and Audio Communications:</b>	LED (Tri-Color) Indicator Light and Audio Indicator
<b>Credentials: Credential</b>	Multi-Application, Mifare DESFire EV2
<b>Security: Operating</b>	DESFire EV2; 128-bit AES Encryption, Individual Account Custom e-Keys
<b>Humidity</b>	0 – 100% Humidity, Non-Condensation
<b>Warranty</b>	Lifetime Limited Mechanical Warranty; 5 Year Limited Electronic Warranty

## PROXESS C-Series LOCK FEATURES

### Mechanical Features

**Lock Trim Body** – The body of the lock is made of a high-quality zinc alloy. RF windows are made of fire rated ABS plastic conforming to UL723.

**Finish**– BHMA US DESCRIPTION 605 3 bright brass 606 4 satin brass 611 9 bright bronze 612 10 satin bronze 613 10B oxidized satin bronze, oil rubbed 618 14 bright nickel plated 619 15 satin nickel plated 622 19 flat black 625 26 bright chromium plated 626 26D satin chromium plated 690 20 dark bronze

**Backset**– 2 3/4" standard, 3 3/4" and 5" available.

**Chassis**– Critical latch and chassis components are brass or corrosion-treated steel. 2 1/16" diameter to fit 2 1/8" hole in door (Conforms to ANSI A115.2). Lost Motion feature available as an option.

**Door thickness**– Available for 1 3/4"

**Latch**– Solid brass 9/16" throw. Front 2 1/4" x 1 1/8" beveled.

**Lever handles**– Lever handles are a high-quality zinc alloy. The body of the trim components are brass or bronze and approximately 1 5/8" in diameter; Handle is approximately 4 3/4" long (from center-line of chassis). #14 and #15 levers conform to California Administrative Code Title 19 and Title 24. All three styles of levers conform to the Illinois Accessibility Standard.

**Mounting**– In addition to standard door preparation (ANSI A115.2 for 1 3/4" doors), two additional holes are needed for through-bolts. Through-bolts require two 5/16" diameter holes located at 12 o'clock and 6 o'clock positions. A drill jig is provided to insure accuracy of the holes.

**Projection on door**– Approximately 2 3/4" when mounted on 1 3/4" door.

### Electronic Features

**RFID** - 13.56 MHz smart credential compatibility –

MIFARE DESFire™ EV1 or EV2 with PACSA

**BLE (Bluetooth Low Energy)** - Built-in Bluetooth® enables wireless configuration from smart phones and tablets

## PROXESS C-Series LOCK FUNCTIONALITY

The Proxess C-Series lock supports the following lock functions:

- Construction
- Storeroom
- Office/Standard
- Classroom
- Dormitory/Privacy

### CONSTRUCTION

The lock will be delivered with the construction function set. On first programming of the lock, the lock will switch to the programmed lock function. The factory will define a special system ID (GUID) to indicate construction mode and any credential with that system ID will cause the door to unlock for the default door unlock period. While operating with the construction function set, the lock will evaluate just the system ID of the card, ignoring any other data on the card.

Construction Function Lock Operation		
Lock Stimuli	Possible Lock States	
	Locked	Momentary Unlock
Card with construction system ID	Drive motor to unlock door Start door unlock timer for default period Illuminate LED green Start LED timer for default period Switch to momentary unlock stat	Restart door unlock timer Illuminate LED green Start LED timer for default period
Any other card presentation	Illuminate LED red Start LED timer for default period	Drive motor to lock door Illuminate LED red Start LED timer for default period Switch to Locked state
Door unlock timer expires	N/A	Drive motor to lock door Extinguish LED if illuminated Switch to Locked state
LED timer expires	Extinguish LED	Extinguish LED

### STOREROOM

When operating with the storeroom function, the lock is normally in the locked state. Upon presentation of a valid credential, the lock will enter the momentary unlock state to allow passage. The lock will revert to the normally locked state upon expiration of the door unlock timer. The interior lever will always allow free egress. The storeroom function will not support lockdown or toggle, nor will it support an unlock schedule. The following table indicates the Office function.

Storeroom Function Lock Operation		
Lock Stimuli	Possible Lock States	
	Locked	Momentary Unlock
Valid card presentation with normal attribute set, pass-thru attribute set, or both; extended attribute clear	Drive motor to unlock door Start door unlock timer for normal unlock period Illuminate exterior LED green Start LED timer for valid access period Switch to momentary unlock state	Restart door unlock timer (normal) Illuminate exterior LED green Start LED timer for normal access time

## PROXESS C-Series Lock

Valid card presentation with normal attribute set, pass-thru attribute set, or both; extended attribute set	Drive motor to unlock door Start door unlock timer for extended unlock time Illuminate exterior LED green Start LED timer for valid access period Switch to momentary unlock state	Restart door unlock timer (extended) Illuminate exterior LED green Start LED timer for valid access period
Storeroom Function Lock Operation		
Lock Stimuli	Possible Lock States	
	Locked	Momentary Unlock
Any other card presentation	Illuminate LED red Start LED timer for default period	Drive motor to lock door Illuminate LED red Start LED timer for default period Switch to Locked state
Door unlock timer expires	N/A	Drive motor to lock door Extinguish LED if illuminated Switch to Locked state
LED timer expires	Extinguish LED	Extinguish LED

### OFFICE/CLASSROOM FUNCTION

When the lock is operating under the Office/Classroom function, the door is normally locked while the interior lever provides free access. Upon presentation of a valid credential the door will unlock for a user-selectable period of time. The lock will support door unlock schedules, toggle and lockdown. The following table represents the lock operation for the Office/Classroom function. With respect to the table, the notes apply:

1. The table includes the extended opening attribute definition only for a valid credential with the normal attribute set. The extended opening attribute should be evaluated for all valid access presentations and the door unlock time should be set accordingly.
2. MUES is the Momentary Unlock Expiration State. This is the state that should be entered upon expiration of the door unlock timer.
3. The door unlock via toggle flag is a register maintained by the lock indicating that the lock is in the unlock state because of a toggle event. When the toggle enable schedule expires, the door should relock only if this flag is set. That is, the door-unlock schedule takes precedence over the toggle enable schedule.
4. The action Start exterior LED Timer implies that the timer will be started based on the LED Illumination for Access times. The Valid Access period should be used when illuminating the exterior LED green and using the Invalid Access period when illuminating the LED red.
5. While not mentioned in the table, it's assumed that the lock will evaluate the Audio Feedback register and sound the audible tone if the appropriate bit is set.

Office Function Lock Operation				
Lock Stimuli	Possible Door States			
Card Presentations	Locked	Momentary Unlock	Unlock	Lockdown
Invalid card presentation	Illuminate exterior LED red Start exterior LED timer	Drive motor to lock door Illuminate exterior LED red Start exterior LED timer	Ignore card presentation	Ignore card presentation
Valid card presentation with normal attribute set, extended attribute clear (See note 1)	Unlock door until relock delay expires Illuminate exterior LED green Set MUES to locked	Reset door relock delay	Ignore card presentation	Ignore card presentation
Valid card presentation with normal attribute set, extended attribute set (See note 1)	Unlock door until relock delay expires Illuminate exterior LED green Set MUES to locked	Reset door relock delay	Ignore card presentation	Ignore card presentation

PROXESS C-Series Lock

Valid card presentation with pass-thru set	Unlock door until relock delay expires Illuminate exterior LED green Set MUES to locked	Reset door relock delay	Ignore card presentation	Unlock door until relock delay expires Illuminate exterior LED green Set MUES to locked
Valid card presentation with lockdown enable attribute set, lockdown cancel attribute clear	Illuminate interior LED (Blink every 5 seconds) Switch to lockdown state	Lock door Extinguish exterior LED Illuminate interior LED (Blink every 5 seconds) Switch to Lockdown state	Lock door Extinguish exterior LED Illuminate interior LED (Blink every 5 seconds) Switch to Lockdown s	Ignore card presentation
Valid card presentation with lockdown enable attribute clear, lockdown cancel attribute set	Ignore card presentation	if MUES is locked then ignore card presentation Extinguish interior LED If door unlock schedule active and first-in flag is set then switch to unlock state else set MUES to locked.	Ignore card presentation	Extinguish interior LED If door unlock schedule active and first-in flag is set then unlock door else switch the door to normal locked state.
Valid card presentation with both lockdown and lockdown cancel attributes set	Switch to lockdown state	If MUES is locked lock door Extinguish exterior LED Illuminate interior LED Switch to lockdown state Else Extinguish interior LED and Set MUES to locked	Lock door Extinguish exterior LED Illuminate interior LED Switch to Lockdown state	If waiting for antipassback then ignore card presentation Extinguish interior LED If door unlock schedule active and first-in flag is set then unlock door And Switch to unlock state else Switch to normal locked state
Second presentation of valid credential with pass-thru attribute set	Ignore second presentation	If MUES is locked or Pass-Thru cancels lockdown is clear then ignore second presentation. Extinguish interior LED If door unlock schedule active and first-in flag is set then Switch to unlock state else set MUES to locked.	Ignore second presentation	Extinguish interior LED If door unlock schedule active and first-in flag is set then Switch to unlock state else Switch to normal locked state
Second presentation of valid credential with toggle attribute set	If toggle schedule is active unlock door and Switch to unlock state else ignore second presentation	If toggle schedule is active then Switch to Unlock state else Ignore second presentation	If toggle schedule is active then lock door and Switch to locked state	Ignore second card presentation
Valid card presentation with first-in attribute set	If door unlock schedule active then unlock door, set first-in flag and Switch to unlock state	If door unlock schedule active then set first-in flag and Switch to unlock state	Ignore first in attribute	Ignore card presentation

Office Function Lock Operation				
Other Stimuli	Locked	Momentary Unlock	Unlock	Lockdown
Interior pushbutton active (with appropriate de-bounce)	N/A	N/A	N/A	N/A
Interior lever active	Ignore event	if MUES is lockdown and egress cancels lockdown then Extinguish interior LED and Set MUES to locked	Ignore event	if egress cancels lockdown then Extinguish interior LED and Change to locked state
Door unlock timer expires	N/A	Lock door Switch to state MUES	N/A	N/A
Door unlock schedule begins	If first-in attribute set then unlock door and Switch to toggle unlock state else wait for first-in credential	If first-in attribute set then Switch to unlock state else wait for first-in credential	Ignore event	Ignore event until Lockdown is cleared.
Door unlock schedule ends	N/A	N/A	Drive motor to lock door Switch to locked state	Ignore event
Toggle schedule ends	Ignore event	ignore event	If door door unlock schedule is not active or first-in is not set then lock door and clear toggle	Ignore event

### DORMITORY/PRIVACY FUNCTION

The dormitory/privacy function operates in much the same fashion as the office lock with the single exception of the actions taken in response to a press of the interior pushbutton. The following table defines the lock operation with the Dormitory/Privacy function. The same notes, as mentioned in the discussion of the Office function, apply.

Dormitory/Privacy Function Lock Operation				
Card Presentations	Possible Door States			
	Locked	Momentary Unlock	Unlock	Lockdown
Invalid card presentation	Illuminate exterior LED red Start exterior LED timer	Drive motor to lock door Illuminate exterior LED red Start exterior LED timer	Ignore card presentation	Ignore card presentation
Valid card presentation with normal attribute set, extended attribute clear (See note 1)	Unlock door Illuminate exterior LED green Set MUES to locked	Reset relock delay	Ignore card presentation	Ignore card presentation
Valid card presentation with normal attribute set, extended attribute set (See note 1)	Unlock door Illuminate exterior LED green Set MUES to locked	Reset relock delay	Ignore card presentation	Ignore card presentation
Valid card presentation with pass-thru set	Unlock door Illuminate exterior LED green Set MUES to locked	Reset relock delay	Ignore card presentation	Unlock door Illuminate exterior LED green
Valid card presentation with lockdown enable attribute set, lockdown cancel attribute clear	Illuminate interior LED Switch to lockdown state	Lock door Extinguish exterior LED illuminate interior LED Switch to Lockdown state	Lock door illuminate interior LED Switch to Lockdown state	Ignore card presentation
Valid card presentation with lockdown enable attribute clear, lockdown cancel attribute set	Ignore card presentation	if MUES is locked then ignore card presentation Extinguish interior LED If door unlock schedule active and first-in flag is set then Switch to unlock state else set MUES to locked	Ignore card presentation	Extinguish interior LED If door unlock schedule active and first-in flag is set then unlock door else Switch to normal locked state
Valid card presentation with both lockdown and lockdown cancel attributes set	Switch to lockdown state	If MUES is locked lock door Extinguish exterior LED Illuminate interior LED Switch to lockdown state Else Extinguish interior LED and Set MUES to locked	Lock door Extinguish exterior LED Illuminate interior LED Switch to Lockdown state	If waiting for antipassback then ignore card presentation Extinguish interior LED If door unlock schedule active and first-in flag is set then unlock door And Switch to unlock state else Switch to normal locked state
Second presentation of valid credential with pass-thru attribute set	Ignore second presentation	If MUES is locked or Pass-Thru cancels lockdown is clear then ignore second presentation. Extinguish interior LED If door unlock schedule active and first-in flag is set then Switch to unlock state else set MUES to locked.	Ignore second presentation	Extinguish interior LED If door unlock schedule active and first-in flag is set then Switch to unlock state else Switch to normal locked state
Second presentation of valid credential with toggle attribute set	If toggle schedule is active unlock door and Switch to unlock state else ignore second presentation	If toggle schedule is active then Switch to Unlock state else Ignore second presentation	If toggle schedule is active then lock door and Switch to locked state	Ignore second card presentation
Valid card presentation with first-in attribute set	If door unlock schedule active then unlock door, set first-in flag and Switch to unlock state	If door unlock schedule active then set first-in flag and Switch to unlock state	Ignore first in attribute	Ignore card presentation



Dormitory/Privacy Function Lock Operation				
Other Stimuli	Possible Door States			
	Locked	Momentary Unlock	Unlock	Lockdown
Interior pushbutton active Hold interior handle down for 3 seconds with the door closed	Illuminate interior LED Switch to lockdown state	If MUES set to locked then illuminate interior LED and Change MUES to lockdown	Lock door Illuminate interior LED Switch to lockdown state	Ignore pushbutton
Interior lever activated	Ignore event	if MUES is lockdown then Set MUES to locked else Ignore event	Ignore Event	Switch to locked state
Door unlock timer expires	N/A	Drive motor to lock door Switch state to MUES	N/A	N/A
Door unlock schedule begins	If lock first-in attribute set then Unlock door and Switch to toggle unlock state else wait for first-in credential	If lock first-in attribute set then switch to toggle unlock state else wait for first-in credential	Ignore event	Ignore event until Lockdown is cleared
Door unlock schedule ends	N/A	N/A	Lock door Switch to normal locked state	Ignore event
Toggle schedule ends	Ignore event	ignore event	If door door unlock schedule is not active or first-in not set then lock door and Switch to toggle locked state}	Ignore event

### SECURE CLASSROOM FUNCTION

The secure classroom function is similar to the Office/Classroom function with the exception that a BLE interface is provided on the interior side of the lock. This interface is to be paired with a fob which will enable a teacher to place the lock in the lockdown state directly from the fob. The secure classroom truth table is:

Secure Classroom Lock Operation				
Card Presentations	Possible Door States			
	Locked	Momentary Unlock	Unlock	Lockdown
Invalid card presentation	Illuminate exterior LED red Start exterior LED timer	Drive motor to lock door Illuminate exterior LED red Start exterior LED timer	Ignore card presentation	Ignore card presentation
Valid card presentation with normal attribute set, extended attribute clear (See note 1)	Unlock door Illuminate exterior LED green Set MUES to locked	Reset relock delay	Ignore card presentation	Ignore card presentation
Valid card presentation with normal attribute set, extended attribute set (See note 1)	Unlock door Illuminate exterior LED green Set MUES to locked	Reset relock delay	Ignore card presentation	Ignore card presentation
Valid card presentation with pass-thru set	Unlock door Illuminate exterior LED green Set MUES to locked	Reset relock delay	Ignore card presentation	Unlock door Illuminate exterior LED green
Valid card presentation with lockdown enable attribute set, lockdown cancel attribute clear	Illuminate interior LED Switch to lockdown state	Lock door Extinguish exterior LED illuminate interior LED Switch to Lockdown state	Lock door illuminate interior LED Switch to Lockdown state	Ignore card presentation

PROXESS C-Series Lock

Valid card presentation with lockdown enable attribute clear, lockdown cancel attribute set	Ignore card presentation	if MUES is locked then ignore card presentation Extinguish interior LED If door unlock schedule active and first-in flag is set then Switch to unlock state else set MUES to locked	Ignore card presentation	Extinguish interior LED If door unlock schedule active and first-in flag is set then unlock door else Switch to normal locked state
Valid card presentation with both lockdown and lockdown cancel attributes set	Switch to lockdown state	If MUES is locked lock door Extinguish exterior LED Illuminate interior LED Switch to lockdown state Else Extinguish interior LED and Set MUES to locked	Lock door Extinguish exterior LED Illuminate interior LED Switch to Lockdown state	If waiting for antipassback then ignore card presentation Extinguish interior LED If door unlock schedule active and first-in flag is set then unlock door And Switch to unlock state else Switch to normal locked state
Second presentation of valid credential with pass-thru attribute set	Ignore second presentation	If MUES is locked or Pass-Thru cancels lockdown is clear then ignore second presentation. Extinguish interior LED If door unlock schedule active and first-in flag is set then Switch to unlock state else set MUES to locked.	Ignore second presentation	Extinguish interior LED If door unlock schedule active and first-in flag is set then Switch to unlock state else Switch to normal locked state
Second presentation of valid credential with toggle attribute set	If toggle schedule is active unlock door and Switch to unlock state else ignore second presentation	If toggle schedule is active then Switch to Unlock state else Ignore second presentation	If toggle schedule is active then lock door and Switch to locked state	Ignore second card presentation
Valid card presentation with first-in attribute set	If door unlock schedule active then unlock door, set first-in flag and Switch to unlock state	If door unlock schedule active then set first-in flag and Switch to unlock state	Ignore first in attribute	Ignore card presentation
<b>Secure Classroom Lock Operation</b>				
<b>Other Stimuli</b>	<b>Locked</b>	<b>Momentary Unlock</b>	<b>Unlock</b>	<b>Lockdown</b>
Interior pushbutton active Hold interior handle down for 3 seconds with the door closed	Illuminate interior LED Switch to lockdown state	If MUES set to locked then Illuminate interior LED and Change MUES to lockdown	Lock door Illuminate interior LED Switch to lockdown state	Ignore pushbutton
Interior lever activated	Ignore event	if MUES is lockdown then Set MUES to locked else Ignore event	Ignore Event	Switch to locked state
Door unlock timer expires	N/A	Drive motor to lock door Switch state to MUES	N/A	N/A
Door unlock schedule begins	If lock first-in attribute set then Unlock door and Switch to toggle unlock state else wait for first-in credential	If lock first-in attribute set then switch to toggle unlock state else wait for first-in credential	Ignore event	Ignore event until Lockdown is cleared
Door unlock schedule ends	N/A	N/A	Lock door Switch to normal locked state	Ignore event
Toggle schedule ends	Ignore event	ignore event	If door door unlock schedule is not active or first-in not set then lock door and Switch to toggle locked state}	Ignore event

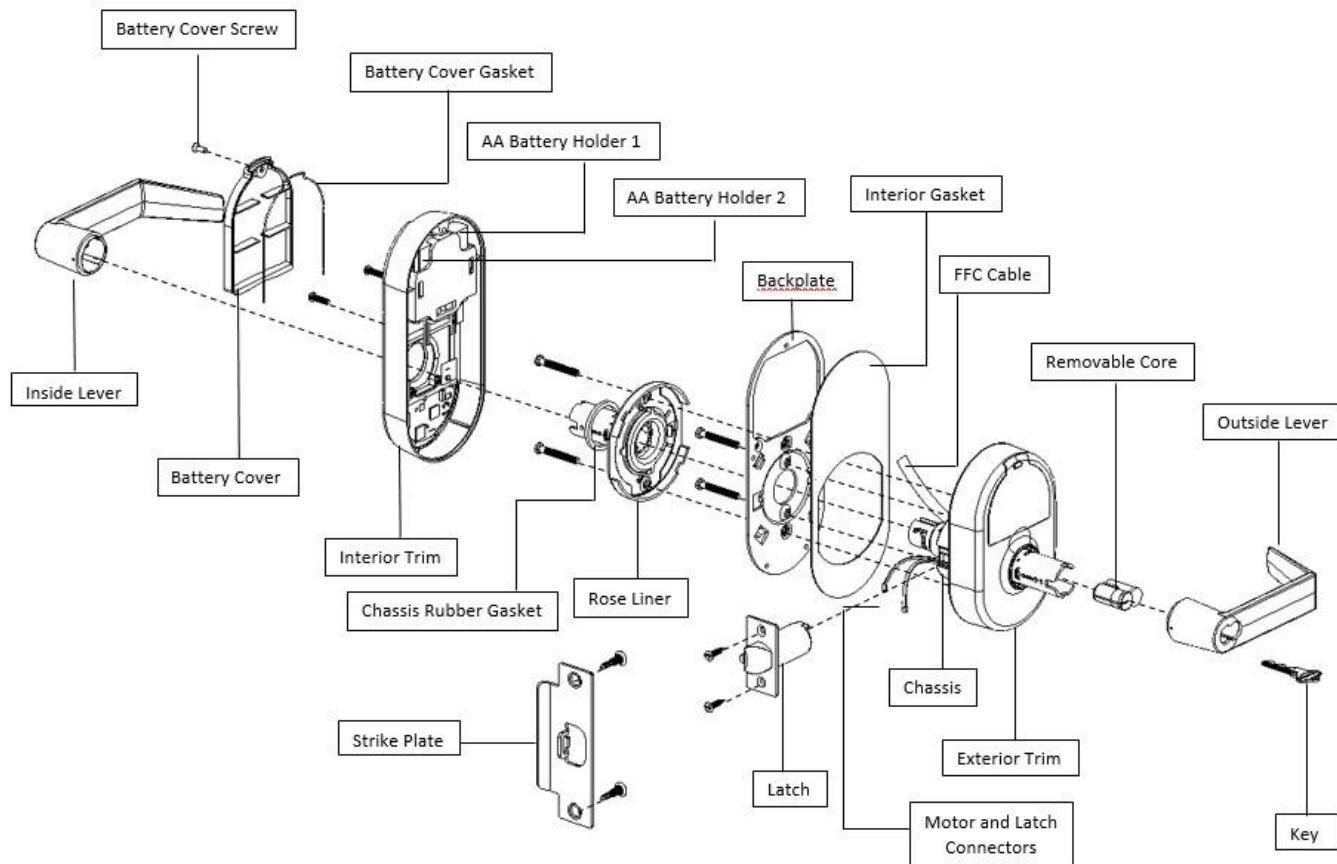
AUDITS

Along with writing certain events to the credential, the lock will maintain a separate audit event table containing all events occurring at the lock. This audit event table will be circular in nature in that, when the table is full, the oldest event is overwritten by the newest event. The number of events held in this table will be 5000.

Group	Event Description	Event Written to Card
1 Valid Access Attempts	Valid access	Yes
	Valid entry	Yes
	Valid exit	Yes
	Valid access under duress	Yes
	Valid entry under duress	Yes
	Valid exit under duress	Yes
	Valid access during lockdown	Yes
	Valid entry under lockdown	Yes
	Valid exit under lockdown	Yes
	Valid access under duress during lockdown	Yes
	Valid entry under duress during lockdown	Yes
	Valid exit under duress during lockdown	Yes
	Double swipe reader toggle unlock	Yes
	Double swipe reader toggle cancel	Yes
	Mechanical key access	No
	Lockdown initiated	Yes
	Lockdown cancelled	Yes
2 Invalid Access Attempts	Card format not supported	No
	Invalid system ID	No
	Credential not in lock permissions table	No
	Anti-passback violation	Yes
	Credential not yet activated	Yes
	Credential has expired	Yes
	Revalidation period has expired	Yes
	No access granted to this door	Yes
	Access not permitted at time of presentation	Yes
	Repeated invalid attempts	No
4 Contact Points	REX active	No
	REX secure	No
	REX fault short	No
	REX fault open	No
	DOD active	No
	DOD secure	No
	DOD fault short	No
	DOD fault open	No
	Tamper active	No
	Tamper secure	No

Group	Event Description	Event Written to Card
8 Lock Events	Power-on reset	No
	Factory default reset	No
	Lock parameters programmed via BLE	No
	Lock database programmed via BLE	No
	Lock program code flashed	No
	Low battery warning	Yes
	Critical battery warning	Yes
	Battery failure -- fail as is	Yes
	Battery failure -- fail secure	Yes
	Battery failure -- fail safe	Yes
Batteries replaced	Yes	
16 Communications	Communication lost to Proxess host	No
	Communication restored to Proxess host	No
	Communication lost to reader	No
	Communication restored to reader	No

### Cylindrical Wireless Lock



#### Installation Manual

##### Tools Needed

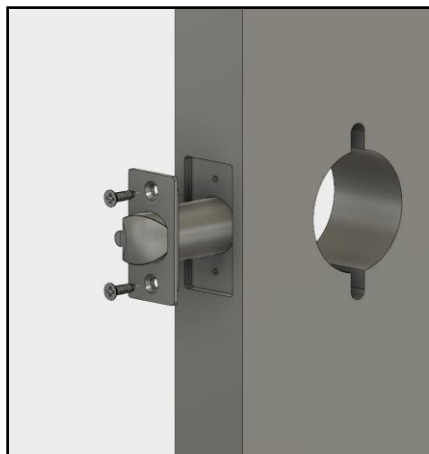
Philips screwdriver  
Pin wrench (included)

##### Preparation

See ## for door preparation instructions

##### Step 1

Install the latch in the door. The latch tube prongs should project into the chassis hole.



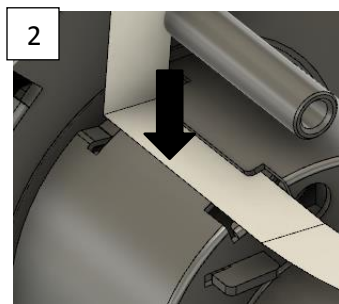
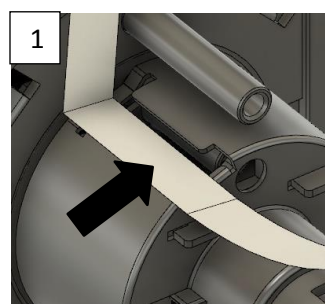
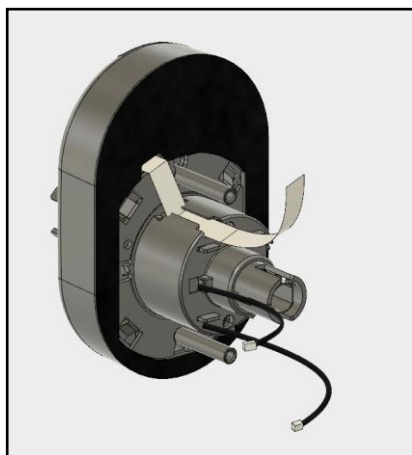
##### Step 2

Install the strike plate, checking to make sure that the position of the deadlocking plunger is aligned against the strike plate.



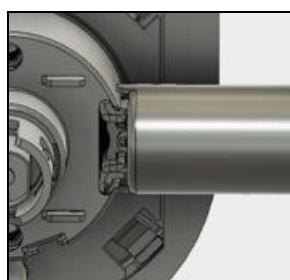
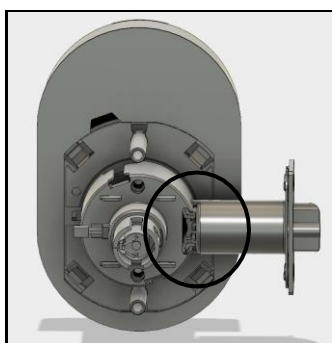
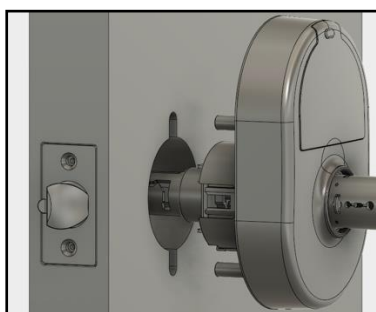
### Step 3

Ensure the cable from the exterior board is properly routed through the cylindrical lock chassis by first inserting one edge, then pressing the other into the cable slot.



### Step 4

Slide the lock chassis through the chassis hole in the door, ensuring that the chassis engages the latch.



### Step 5

Place the back plate on the interior of the door with the upper and lower screws near the chassis. Wire the cable and wires as shown:



### Step 6

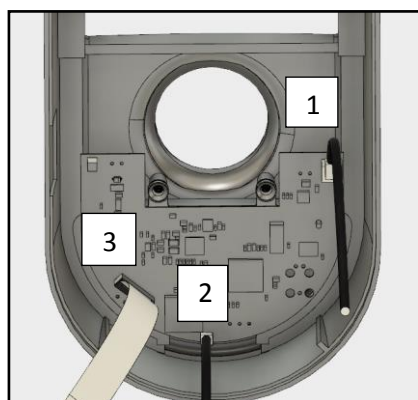
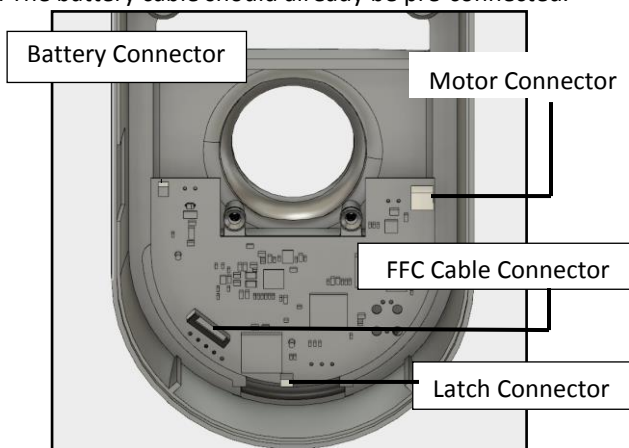
Place the outside rose liner on the interior back plate and screw in, again ensuring the wires are properly fed through the piece



### Step 7

Connect the motor connector first. Followed by the latch connector. Connect the FFC cable last.

Note: The battery cable should already be pre-connected.



### Step 9

Screw the interior trim onto the back plate using the two screws on the right and left of the battery hole.



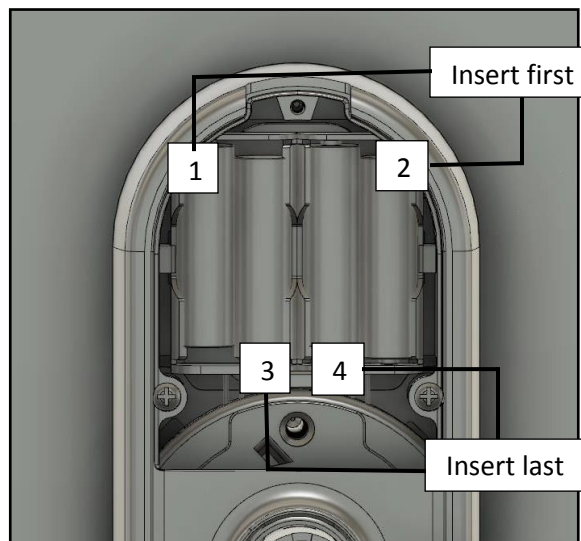
### Step 8

Slide the rubber gasket over the chassis sleeve.



### Step 10

Install the four AA batteries, beginning with the outer two.



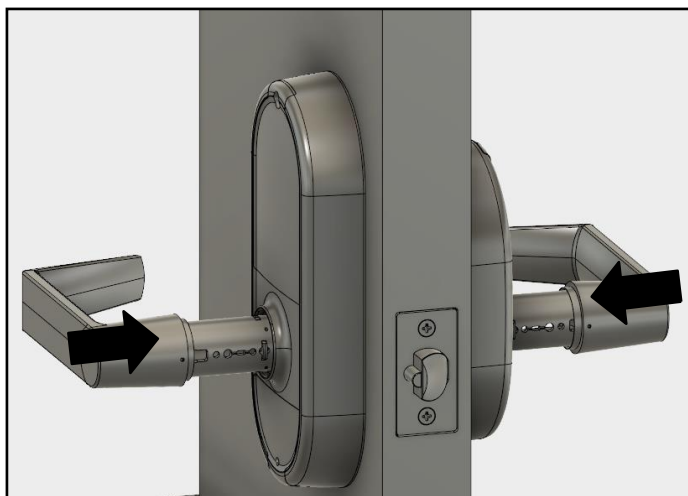
**Step 11**

Screw the battery cover onto the trim.



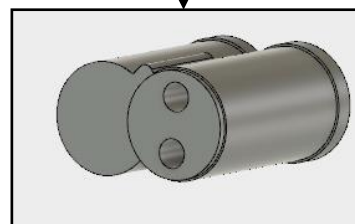
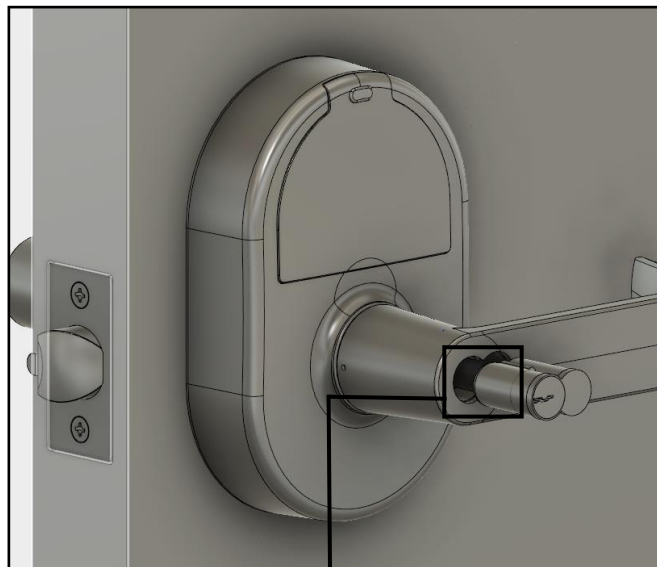
**Step 12**

Install the levers onto the outside and inside of the door.



**Step 13**

Install the removable core.



Once the removable core is aligned, insert the key and turn clockwise 15 degrees to retract the catch, then insert the core into the lever. Turn the key back counterclockwise 15 degrees to engage the core and remove the key.



## FCC Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

### FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### FCC Radiation Exposure Statement

To comply with FCC/IC RF exposure requirements for mobile transmitting devices, this transmitter should only be used or installed at locations where there is at least 20 cm separation distance between the antenna and all persons.

### Industry Canada Statement

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

### Industrie Canada Déclaration

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

### Industry Canada Radiation Exposure Statement

This Device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

### Industrie Canada l'exposition aux radiations

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## UL Statements

- Outside lever is normally locked. Inside lever always allows egress.
- Unit shall not interfere with the operation of Panic Hardware.
- Wireless communications, Wi-Fi, Bluetooth, Door Position, and Request to Exit features are not part of UL Listed product.
- Tested to compliance with UL 294 5th Edition Class I.