

ADDENDUM to the CA3000 USER MANUAL

WIRELESS LOCK HARDWARE GUIDE



DATE: 2 AUGUST 2011

LOCK MODELS: ALARM LOCK "PDL6100" / CONTINENTAL "CPDL6100"
ALARM LOCK "PL6100" / CONTINENTAL "CPL6100"

DOCUMENT PERTAINS TO: WIRELESS LOCK LED AND SOUNDER INDICATORS;
WIRING, POWER UP, AND BATTERY REPLACEMENT
PROCEDURES

CardAccess 3000 



FCC WARNING

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE

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 the user will be required to correct the interference at his own expense.

Shielded cables must be used with this unit to ensure compliance with the Class A FCC limits.

"This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications."

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la class A prescrites dans le Reglement sur le brouillage radioelectriques edicte par le ministere des Communications du Canada.

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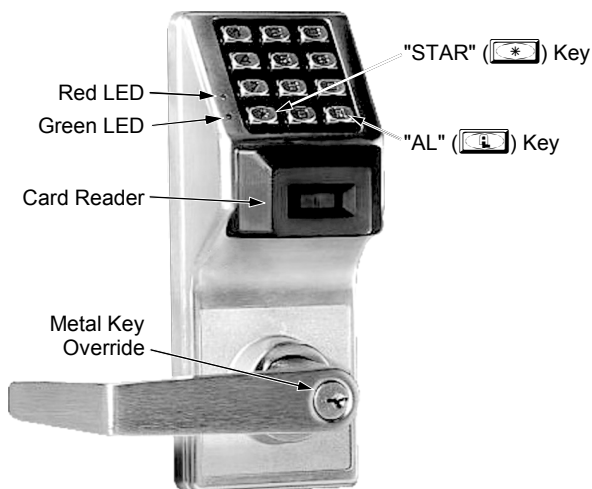
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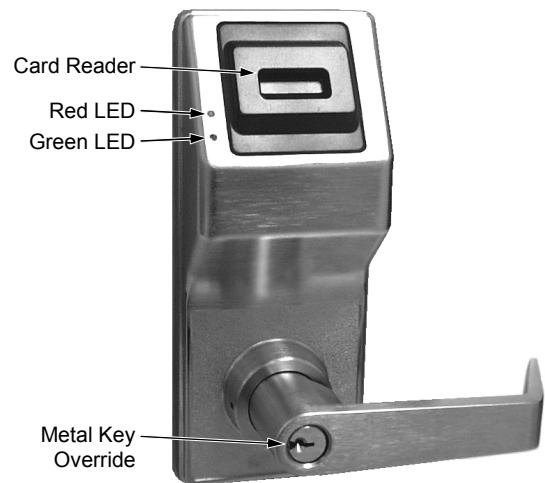
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Lock Specifications

- **CPDL6100** - Cylindrical Trilogy® Networkx™ Wireless Access Control Lock with built in HID Proximity ID Card Reader, full-metal digital keypad, integral bi-directional radio, 4 C-cell battery-operated (batteries supplied), serial number ID card, standard format SCI keyway for manual key override, 4 7/8" ASA Strike (included).
- **CPL6100** - Cylindrical Trilogy® Networkx™ Wireless Access Control Lock with built in HID Proximity ID Card Reader (keypad removed for added security), integral bi-directional radio, 4 C-cell battery-operated (batteries supplied), serial number ID card, standard format SCI keyway for manual key override, 4 7/8" ASA Strike (included).



PDL6100 / CPDL6100



PL6100 / CPL6100

Alarm Lock PDL6100 / Continental CPDL6100

OVERVIEW

When an Alarm Lock door lock is removed from its factory packaging and powered, it contains Alarm Lock firmware; this manual will refer to these "factory-fresh" models as "PDL" or "PL" (for example "PDL6100"). Locks converted to the CA3000 system have the letter "C" added before the "PDL" or "PL" letters (for example, an Alarm Lock model "PDL6100" becomes a "CPDL6100" when converted for use with CA3000).

Notice that the next section details powering up the factory Alarm Lock model PDL6100; once the lock is converted to the CA3000 system, all subsequent sections then detail the converted Continental lock model CPDL6100.

WIRING

Batteries:

Use four 1.5 volt Alkaline size-C batteries only (either a sealed battery pack or battery pack with replaceable batteries).

External Power:

Red / Black wires - External 7.5 VDC Power Source must be used for operation without batteries.

Remote Input / Bypass:



(Two white wires) In the rear of the lock body are two white wires that, when shorted, cause the lock to unlock, (thus "unlocking the door" and allowing passage through the protected door). These two white wires are called "Remote Input" in Alarm Lock terminology, and called "Bypass" in Continental terminology. Wire a normally-open switch to the two white wires; momentarily close to unlock / allow passage / entry through door. **NOTE: By default, Remote Input is enabled in the Alarm Lock PDL6100 from the factory and also enabled when converted to the Continental CPDL6100.**

Relay:

COM-Orange / NO-Green / NC-Yellow.

PDL6100 FIRST TIME POWER UP

Note: Failure to follow the exact steps below can result in erratic lock behavior.



1. Unpack the lock from its factory packaging. The lock contains Alarm Lock firmware.
2. With the batteries disconnected, hold down the  key for 10 seconds and release.
3. Connect the batteries and listen for 3 beeps. Within 5 seconds of hearing the 3 beeps, press and hold  until beeping starts. This will clear the lock of all programmed data. **Important:** If you do not hear these 3 beeps, you must start over at step 2.
4. Listen for another series of beeps and LED flashes *followed by 10 seconds of silence*.

The lock is ready to be discovered and converted to the CA3000 system as a CPDL6100. Once converted, but

before the lock receives a full data download from CA3000 (badge data, etc), only one user code is programmed into the lock ("123456") to allow the lock to unlock for 6 seconds. Also, **Remote Input / Bypass** is enabled (see "**WIRING**" above).

From this point onward, the text in these instructions assume the lock has been discovered and converted to the CA3000 system as a CPDL6100 using the Wireless Lock Integration Guide WI1949 (section "Quick Start: Add Gateways and Locks").


CPDL6100 ERASE ALL PROGRAMMING (PERFORM A "MANUAL DEFAULT")

1. Disconnect the battery pack.
2. With battery power disconnected, press **and hold down**  for 10 seconds to ensure discharge of all capacitors.
3. Re-install the battery pack; lock will sound 3 short beeps.
4. Within 5 seconds after hearing the 3 short beeps, press and hold  until the lock begins to beep slowly (7 red LED flashes with 7 beeps), then release.

All lock configuration data (badge data, access groups, etc.) have been erased and the lock is now ready to be discovered and added to the CA3000 system. Before the lock receives a full data download from CA3000 (badge data, etc), only one user code is programmed into the lock ("123456") to allow the lock to unlock for 6 seconds. Also, **Remote Input / Bypass** is enabled (see "**WIRING**" above).

CPDL6100 POWER RE-APPLIED

When power is re-applied to a lock that has already been configured and operational (with badge data, etc.), proceed as follows:


1. Disconnect battery pack.
2. With battery power disconnected, press **and hold down**  for 10 seconds to insure discharge of all capacitors.
3. Re-connect battery pack, do not touch any keys. Observe lock carefully:
 - 3 short beeps sound (**NO** LED's flashing);
 - short pause;
 - 3 short beeps sound with 3 **green** LED's.

The 3 **green** LED's indicate the lock configuration data (badge data, etc.) is retained successfully, and the lock is ready for use. If you see 3 **red** LED's, this indicates the lock started without configuration data, and will automatically request configuration data from CA3000.

Alarm Lock PDL6100 / Continental CPDL6100

CPDL6100 BATTERY REPLACEMENT

Upon a credential presentation (badge or code) when the batteries are weak, the lock sounder will continuously beep for the length of the "Door Strike Time" ("Door Strike Time" is the duration the lock would remain unlocked when a valid badge is presented). For models with a replaceable battery pack, use four (4) C-size 1.5 volt alkaline batteries. For models with a sealed battery pack, contact your Alarm Lock dealer for a replacement battery pack. Always replace weak batteries as soon as possible.

1. At the back of the lock, remove the screw at the bottom of the lock housing and remove the cover.
2. Disconnect the battery pack, removing power.
3. With battery power disconnected, press **and hold down**  for 10 seconds to ensure discharge of all capacitors.
4. Re-connect battery pack, do not touch any keys. Observe lock carefully:

- 3 short beeps sound (**NO** LED's flashing);
- short pause;
- 3 short beeps sound with 3 **green** LED's.

The 3 **green** LED's indicate the lock configuration data (badge data, etc.) is retained successfully, and the lock is ready for use. If you see 3 **red** LED's, this indicates the lock started without configuration data, and will automatically request configuration data from CA3000.

5. Replace the cover and tighten the screw.

Note: Restarting an operational lock may send a Lock Startup event to the CA3000 GUI.

CPDL6100 LED and Sounder Indicators

The CPDL6100 lock provides visual and audible keypad feedback. With a fully charged battery, the LED and sounder feedback is as follows:

ACTIVITY	LED	SOUNDER	COMMENTS
Valid Credential or Remote Input / Bypass	3 Green Flashes	3 Beeps	Normal Operation
Keypress	1 Red Flash	1 Beep	
Invalid Credential	7 Red Flashes	7 Beeps	
Card Detection / Reader Disabled	2 Red Flashes	2 Beeps	"Card Detection": Badge presented to lock reader to test if the badge type is compatible with the system. "Reader Disabled": Programmed using CA3000 software.
Waiting Indication	Slow green flashes for programmed duration (varies with reader settings)	--	Used when "Card & Code" or "Two Person Reader" is enabled
Low Battery	--	Continuous beep for length of "Door Strike Time"	See " CPDL6100 BATTERY REPLACEMENT " on this page above.
Lock Restarts with Configuration Data	<ul style="list-style-type: none">• 3 short beeps sound (NO LED's flashing);• short pause;• 3 short beeps sound with 3 green LED's.		When power re-applied to a lock that has already been configured and operational (with badge data, etc.), or when replacing batteries. Configuration data retained, no need for data download.
Lock Restarts without Configuration Data	<ul style="list-style-type: none">• 3 short beeps sound (NO LED's flashing);• short pause;• 3 short beeps sound with 3 red LED's.		When power re-applied to a lock that has already been configured and operational (with badge data, etc.), or when replacing batteries. Configuration data lost or corrupted, lock will automatically request configuration data from CA3000.

Alarm Lock PL6100 / Continental CPL6100

OVERVIEW

When an Alarm Lock door lock is removed from its factory packaging and powered, it contains Alarm Lock firmware; this manual will refer to these "factory-fresh" models as "PDL" or "PL" (for example "PL6100"). Locks converted to the CA3000 system have the letter "C" added before the "PDL" or "PL" letters (for example, an Alarm Lock model "PL6100" becomes a "CPL6100" when converted for use with CA3000).

Notice that the next section details powering up the factory Alarm Lock model PL6100; once the lock is converted to the CA3000 system, all subsequent sections then detail the converted Continental lock model CPL6100.

WIRING

Batteries:

Use four 1.5 volt Alkaline size-C batteries only (either a sealed battery pack or battery pack with replaceable batteries).

External Power:

Red / Black wires - External 7.5 VDC Power Source must be used for operation without batteries.

Remote Input / Bypass:

(Two white wires) In the rear of the lock body are two white wires that, when shorted, cause the lock to unlock, (thus "unlocking the door" and allowing passage through the protected door). These two white wires are called "Remote Input" in Alarm Lock terminology, and called "Bypass" in Continental terminology. Wire a normally-open switch to the two white wires; momentarily close to unlock / allow passage / entry through door.

Relay:

COM-Black / NO-White / NC-Yellow.

Erase Memory Leads:

Yellow / Yellow wires - When shunted during power up, the Lock Program memory is erased (see **ERASE ALL PROGRAMMING** below).

PL6100 FIRST TIME POWER UP

Note: Failure to follow the exact steps below can result in erratic lock behavior.

When powered for the first time but before it is converted to the CA3000 system as a CPL6100, the PL6100 will remain unlocked.

1. Unpack the lock from its factory packaging.
2. For models with a replaceable battery pack, install fresh batteries with attention to the correct polarity as indicated inside the plastic battery pack housing. Do not connect the batteries yet.
3. With battery power disconnected, short the two white wires (**Remote Input / Bypass** wires) together for 10 seconds to ensure discharge of all capacitors. After 10

seconds, remove the short.

4. Plug in the (provided) male shunt connector into the yellow wire female connector (**Erase Memory Leads**).
5. With shunt connector connected, re-connect the battery pack. The lock will immediately sound 3 short beeps (if these 3 beeps are not heard, then restart at step 3).
6. The lock will then sound more slow beeps, 1 beep for every second it takes to clear the memory.
7. After 2 rapid beeps are heard and 2 green LED flashes are seen,
8. **REMOVE YELLOW MALE SHUNT connector (Erase Memory Leads).**

The lock is ready to be discovered and converted to the CA3000 system as a CPL6100. Once converted, but before the lock receives a full data download from CA3000 (badge data, etc), and the CPL6100 is unlocked by default.

From this point onward, the text in these instructions assume the lock has been discovered and converted to the CA3000 system as a CPL6100 using the Wireless Lock Integration Guide WI1949 (section "Quick Start: Add Gateways and Locks").

CPL6100 ERASE ALL PROGRAMMING (PERFORM A "MANUAL DEFAULT")

1. At the back of the lock, remove the lock housing screw and remove the cover.
2. Take out battery pack and remove battery power by disconnecting the battery pack plug.
3. With battery power disconnected, short the two white wires (**Remote Input / Bypass** wires) together for 10 seconds to ensure discharge of all capacitors. After 10 seconds, remove the short.
4. Plug in the (provided) male shunt connector into the yellow wire female connector (**Erase Memory Leads**).
5. With shunt connector connected, re-connect the battery pack. The lock will immediately sound 3 short beeps.
6. The lock will then sound more slow beeps, 1 beep for every second it takes to clear the memory.
7. **REMOVE YELLOW MALE SHUNT connector (Erase Memory Leads).**

With the yellow male shunt connector **removed**, all lock configuration data (badge data, access groups, etc.) have been erased and the lock is now ready to be discovered and added to the CA3000 system. Before the lock receives a full data download from CA3000 (badge data, etc), the CPL6100 is unlocked by default.

CPL6100 POWER RE-APPLIED

When power is re-applied to a lock that has already been configured and operational (with badge data, etc.), and you ***wish to retain*** the Lock Program (such as when mov-

Alarm Lock PL6100 / Continental CPL6100

ing an existing lock to a new door, and the lock must be dismantled and powered down for an extended time period), proceed as follows:

1. Disconnect battery pack connector.
2. With battery power removed, short the two white wires (**Remote Input / Bypass** wires) together for 10 seconds to ensure discharge of all capacitors.

Do **NOT** plug in the yellow wire shunt connector (**Erase Memory Leads--DO NOT CONNECT**).

3. Re-connect battery pack (lock will sound 3 short beeps). If these 3 beeps are not heard, then repeat steps at step 1. Observe lock carefully:

- 3 short beeps sound (**NO** LED's flashing);
- short pause;
- 3 short beeps sound with 3 **green** LED's.

The 3 **green** LED's indicate the lock configuration data (badge data, etc.) is retained successfully, and the lock is ready for use. If you see 3 **red** LED's, this indicates the lock started without configuration data, and will automatically request configuration data from CA3000.

CPL6100 BATTERY REPLACEMENT

Upon a badge presentation when the batteries are weak, the lock sounder will continuously beep for the length of the "Door Strike Time" ("Door Strike Time" is the duration the lock would remain unlocked when a valid badge is

presented). For models with a replaceable battery pack, use four (4) C-size 1.5 volt alkaline batteries. For models with a sealed battery pack, contact your Alarm Lock dealer for a replacement battery pack. Always replace weak batteries as soon as possible.

1. At the back of the lock, remove the screw at the bottom of the lock housing and remove the cover.
2. Disconnect the battery pack, removing power.
3. With battery power removed, short the two white wires (**Remote Input / Bypass** wires) together for 10 seconds to ensure discharge of all capacitors.

Do **NOT** plug in the yellow wire shunt connector (**Erase Memory Leads--DO NOT CONNECT**).

4. Re-connect battery pack and observe lock carefully:

- 3 short beeps sound (**NO** LED's flashing);
- short pause;
- 3 short beeps sound with 3 **green** LED's.

The 3 **green** LED's indicate the lock configuration data (badge data, etc.) is retained successfully, and the lock is ready for use. If you see 3 **red** LED's, this indicates the lock started without configuration data, and will automatically request configuration data from CA3000.

5. Replace the cover and tighten the screw.

Note: Restarting an operational lock may send a Lock Startup event to the CA3000 GUI.

CPL6100 LED and Sounder Indicators

With a fully charged battery, the CPL6100 LED and sounder feedback is as follows:

ACTIVITY	LED	SOUNDER	COMMENTS
Valid Credential or Remote Input / Bypass	3 Green Flashes	3 Beeps	Normal Operation
Invalid Credential	7 Red Flashes	7 Beeps	
Card Detection / Reader Disabled	2 Green Flashes	2 Beeps	"Card Detection": Badge presented to lock reader to test if the badge type is compatible with the system. "Reader Disabled": Programmed using CA3000 software.
Waiting Indication	Slow green flashes for programmed duration (varies with reader settings)	--	Used when "Card & Code" or "Two Person Reader" is enabled
Low Battery	--	Continuous beep for length of "Door Strike Time"	See " CPL6100 BATTERY REPLACEMENT " on this page above.
Lock Restarts with Configuration Data	<ul style="list-style-type: none">• 3 short beeps sound (NO LED's flashing);• short pause;• 3 short beeps sound with 3 green LED's.		When power re-applied to a lock that has already been configured and operational (with badge data, etc.), or when replacing batteries. Configuration data retained, no need for data download.
Lock Restarts without Configuration Data	<ul style="list-style-type: none">• 3 short beeps sound (NO LED's flashing);• short pause;• 3 short beeps sound with 3 red LED's.		When power re-applied to a lock that has already been configured and operational (with badge data, etc.), or when replacing batteries. Configuration data lost or corrupted, lock will automatically request configuration data from CA3000.

ALARM LOCK LIMITED WARRANTY

ALARM LOCK SYSTEMS, INC. (ALARM LOCK) warrants its products to be free from manufacturing defects in materials and workmanship for 24 months following the date of manufacture. ALARM LOCK will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

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ALARM LOCK RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

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