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Wireless Networx™ Trilogy® PDLN4100 / PDLN4500 "Residency" and "Privacy" Locks Supports Version 2 Gateways and Expanders Programming Instructions

WI2266LF 4/18



DL-WINDOWS PROGRAMMING SOFTWARE



AL-IME-USB
GATEWAY MODULE



AL-IM2 SERIES
"VERSION 2"
GATEWAY MODULES

AL-IM2-80211
AL-IME2
AL-IME2POE



PDLN4100



PDLN4500



AL-IM2-PIE PLUG-IN
EXPANDER MODULE



PROXIMITY CARD



PROXIMITY KEYFOB

THE **ALARM LOCK** TRILOGY SERIES STAND-ALONE AND NETWORK PROGRAMMABLE ACCESS CONTROL SYSTEM IS A SERIES OF STATE-OF-THE-ART WIRELESS AND KEYPAD-ENTRY PROGRAMMABLE PROXIMITY SECURITY LOCKS.

PDLN4100 and PDLN4500



PDLN4100

The Networkx PDL Series locks include several lock types, but this manual will focus on two: The **PDLN4100** and **PDLN4500**. The **PDLN4100** is a cylindrical lock, and the **PDLN4500** is a mortise-based lock, for extra security. Both allow use of "Residency" and "Privacy" features, and can be programmed either way to suit the installation requirements.

Both locks feature an HID compatible ProxCard® reader, a real-time clock/calendar that automatically adjusts for Daylight Saving Time and allows for automated programming of events. Up to 5000 unique User Codes can be added to the lock, from 3-6 digits in length.

"Residency" and "Privacy" Features

The "Residency" feature is specially designed to prevent unintentional lock-out (typically used in retirement homes and college dormitories), and the "Privacy" feature is designed to deny access to other users after an individual enters (typically used for rooms needing privacy from others such as bathrooms, dorms and meeting rooms). See pages 18-19 for more information about "Residency" and "Privacy" Features.



PDLN4500

Wireless Networkx, DL-Windows and Keypad Programming

The Trilogy Networkx™ **PDLN4100** and **PDLN4500** are designed to allow all lock features to be programmed either at the keypad or through its Networkx-radio link to a DL-Windows equipped computer. For example, Audit Log Data may be transmitted through the radio link back to the DL-Windows computer.

If your Networkx wireless network is not yet set up, you can add Users and program other features using the lock keypad as a *temporary* convenience to allow the lock to be put into use before installing the wireless network. However, be aware that all programming added using the keypad *cannot* be retrieved into DL-Windows, so if you decide to start programming using the lock keypad, we recommend you keep hardcopy records (in a secure location) of all Users, User Codes, and any proximity credentials that may have been programmed. Keeping these hardcopy records will save time because after the wireless network is set up, all programming added via the lock keypad can easily be re-added to DL-Windows and downloaded back to the lock(s)*.

These instructions include manual keypad programming. For DL-Windows user instructions, see the *DL-Windows User's Guide* (OI382); for configuring your wireless system, see the *DL-Windows for Networkx User's Guide* (OI383).

Note: ProxCard® and ProxKey® are trademarks of the HID® Corporation.

*For installations without a network, we recommend enabling Function 94 ("Disable Radio").

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The word "credential" used throughout this manual is a generic word intended to describe a User Code, a proximity card, proximity keyfob (such as a ProxKey® keyfob), a hardwired Remote Input momentary contact, a Wireless Remote Release, or any future device or design that allows the lock to unlock, allowing passage through the door. Trilogy® is a registered trademark of Alarm Lock. ProxCard® and ProxKey® are trademarks of the HID® Corporation. Microsoft® and Windows® are trademarks of the Microsoft Corporation.

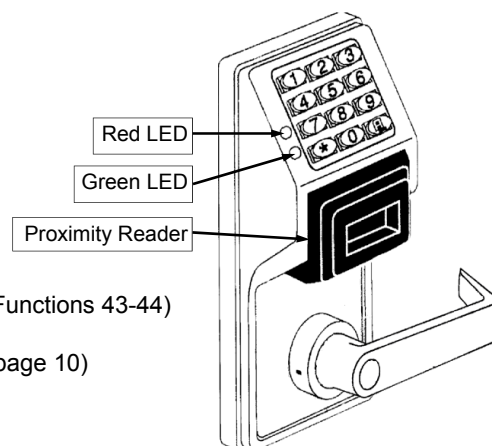
Lock Features

Audit Trail

- 36,000 Event Capacity
- Entries Logged with Time and Date
- Critical Programming Events Logged
- Uploadable using Alarm Lock's DL-Windows software (see page 4)

Lock Features

- Metal Key Override for all cylindrical locks
- Keypad Lockout (see page 28, Functions 60-61)
- Non-Volatile (Fixed) Memory
- Real-Time Clock, adjustable accuracy to within one second (see page 26, Functions 43-44)
- Programmable Relay (see pages 29-30, where equipped)
- Visual and Audible Keypad Feedback (see "LED and Sounder Indicators", page 10)
- Inside Emergency Indicator LED (see page 12)
- Battery Status Monitor (see "LED and Sounder Indicators", page 10)



Scheduling

- 500 Scheduled Events (see pages 31-34)
- Automated Unlock/Lock (see page 32 "Quick Schedules" and "Scheduled Passage Mode")
- Enable/Disable Users (see page 22, Function 3)
- Group Enable/Disable (see Functions 14-23 on page 23)
- Four "Quick Schedules" (contains 4 most common schedules) (see page 32)
- Real-time clock and calendar (see page 25-26)
- Programmable Timeout Functions (see pages 23-24)



User Access Methods

- Keypad Entered User Codes (see pages 15-16, 21)
- ProxCard® and ProxKey® Keyfob (see page 16)
- Both User Code *and* ProxCard® Required, for highest security (see page 16)
- Batch Enroll - Quickly and easily enroll multiple ProxCards® and ProxKey® keyfobs without the use of a PC (see "Enroll Proximity Cards at the Lock" page 16). **Note:** ProxCards® and ProxKey® Keyfobs both function identically (ProxKey® Keyfobs can be substituted for all references to the ProxCard® in this manual).



User Features

- 5000 Users (see pages 15-16, 21)
- 6 Pre-defined Administration User Levels including *Master*, *Installer*, *Manager*, *Supervisor* and *Basic* User Codes (see page 9)
- User Code Lengths from 3-6 digits (see page 21)
- Service Code (see "User 300: One-Time Only Service Code" on page 8)
- User Lockout Mode (see page 22, Function 6)
- Users Assignable to 4 Groups (see Function 35 "Group Add/Delete Association" on page 24)
- *Ambush* Function (see page 28, Function 66)
- Guard Tour Code (see "User 299: Guard Tour Code" page 8)
- Global Lock-Down / Unlock in emergency; activated from *Wireless Remote Release* Transmitters, DL-Windows or initiated from another Network lock in the system (see "How do the Emergency Commands work?" on page 8)

Computer Programming

- Full Administrative programming from a PC using Alarm Lock's DL-Windows Software. For a description of all features, see the *DL-Windows User's Guide* (OI382) and the *DL-Windows for Network User's Guide* (OI383)
- **Networked mode:** PC running DL-Windows is connected to (wirelessly or wired) a network, either using an Ethernet or 802.11 connection. Communications are accomplished through networked Gateway module(s). See page 4 for supported products.
- **Non-networked mode:** PC running DL-Windows does not require a network. Communications are accomplished using an **AL-IME-USB** Gateway inserted into a USB port on your Windows laptop or PC. **Note:** Only "Local" Emergency Commands are supported when using an **AL-IME-USB** Gateway. See page 4 for supported products.

Wireless programming range: Up to 200 feet, depending on building construction materials



Supported Products and Applications



AL-IM2-80211
AL-IME2
AL-IME2POE

AL-IM2 SERIES WI-FI Gateway Modules

A Networkx series door lock contains a radio that transmits and receives data--via a private wireless signal--to an intermediate device called a Gateway module. In turn, this Gateway module is connected (either wirelessly or wired) to a computer network such as a LAN or corporate Intranet. A Windows PC connected to this network can control and program all Networkx series door locks by the use of the *DL-Windows* software (see OI382 and OI383). With access rights to the software, one computer--or several--can control the software and consequently can control the devices in the system. **Note:** See below for an explanation of "VERSION 2". Several Gateway device models are available:

- **"Wireless / Wired" AL-IM2-80211** Hardwired / Wireless Gateway Interface Module. Supplied with its own class 2 transformer to supply power and supports connection to a network either using 802.11 or a standard Ethernet cable. This "Wireless / Wired" Gateway module has two antennas, one for the proprietary radio connection to the Networkx series door lock and the other for 802.11 network transmissions. Ensure adequate 802.11 coverage in the area where the "Wireless / Wired" Gateway is mounted. Supports up to 63 Networkx locks. Ceiling- or wall-mountable.
- **"Wired" AL-IME2** Hardwired Gateway Interface Module, supports up to 63 Networkx Locks, connects directly to a network using a standard RJ-45 Ethernet cable. This model has one antenna used to transmit to the Networkx series door lock via an Alarm Lock proprietary radio connection. Ceiling- or wall-mountable. Powered with Class 2, 6VAC transformer (supplied).
- **"Power over Ethernet" AL-IME2POE** Hardwired Gateway Interface Module + POE (Power Over Ethernet), supports up to 63 Networkx Locks, connects directly to a network using a standard RJ-45 Ethernet cable and POE. This model has one antenna used to transmit to the Networkx series door lock via an Alarm Lock proprietary radio connection. Ceiling- or wall-mountable.
- **AL-IME-USB** - USB Portable Gateway Interface Module, virtually the same functionality of the Gateways listed above, however this highly portable and compact module connects to a standard USB 2.0 socket or greater in your Windows laptop or PC, quickly and effortlessly creating a wireless connection to your Networkx series door locks. Requires DL -Windows v5.2.3 or higher. **Note:** Only "Local" Emergency Commands are supported when using an **AL-IME-USB** Gateway.

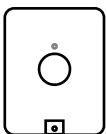


AL-IME-USB



DL-Windows Software Application

Alarm Lock Trilogy Microsoft Windows-based software application, v4.0 or higher, supports Trilogy Networkx and Trilogy stand alone locks, with single database (PDLN4100 / PDLN4500 series door locks require v5.5.2 or higher). For use with *Free of charge* and downloadable online at www.alarmlock.com. ***DL-Windows software is the basis for the wireless lock programming interface.*** For those unfamiliar with using DL-Windows software, stop here and review the DL-Windows User's Guide (OI382) and the DL-Windows for Networkx User's Guide (OI383).



RR-1BUTTON



RR-4BKEYFOB

RR-1BUTTON and RR-4BKEYFOB

The PDLN4100 / PDLN4500 series door locks are compatible with the **RR-1BUTTON** *Wireless Remote Release Button* (see WI1999) and **RR-4BKEYFOB** *Wireless Remote Release Keyfob* (see WI2004). The **RR-4BKEYFOB** is a portable pocket-size remote release, and the single-button **RR-1BUTTON** is small enough for a pocket, but is often permanently mounted at a hidden location. Each requires one battery (service life of up to 12,000 openings). During normal operation, the lock typically opens within 2 seconds of the button press.

Supported Products and Applications (cont'd)



AL-IME2-EXP



AL-IME2-PIE

The Networkx™ **AL-IME2-EXP Expanders** extend the coverage area of **AL-IME2** series Gateways, allowing control of up to its rated maximum of 63 Networkx locks per Gateway. Installation is simple, as Expanders only require a connection to 12VDC power supply. **AL-IME2-EXP** Expanders are cost-effective, easier to wire than conventional Gateways, and feature a simplified 'Plug and Play' setup where the Networkx system automatically identifies all newly powered Expanders and quickly determines the best wireless signal pathways. Up to 7 Expanders can be added to one **AL-IME2** series Gateway. The easy to install **AL-IME2-PIE Plug-In Expander** can simply be powered by any ordinary 120VAC wall outlet. See OI391 for more information.

SITE SURVEY TOOLS

The **AL-NSM Networkx Signal Meter** and the **AL-NSG Networkx Signal Generator** greatly assist with identifying optimal Gateway locations for the anticipated installation doors. See WI2092 for complete information, but a general description follows:

AL-NSM Networkx Signal Meter

Performs a site survey test of the premises to:

- find the optimum location for Gateways relative to locks
- find the optimum location for locks relative to Gateways
- determine the optimum number of Gateways required to cover the signal area of the locks you plan to install
- perform diagnostic testing of existing Gateway radio signals within your installation environment

Using the various available Modes, the **AL-NSM** can measure radio noise levels, calculate overall signal quality, discover Networkx locks not yet assigned to Gateways, and even send a "locate" signal (causing all unassigned locks to "beep").

The **AL-NSM** can be used with an existing Gateway and the "Gateway Signal Test Mode" feature in DL-Windows, or with the **AL-NSG Networkx Signal Generator** explained below. **Note:** See the "Gateway Signal Test Mode" feature in the **DL-WINDOWS for Networkx V5 User's Guide** (OI383).



AL-NSM
Signal Meter

AL-NSG Networkx Signal Generator

As mentioned above, the **AL-NSM Signal Meter** may be used with either an existing operational Gateway or the portable **AL-NSG Networkx Signal Generator**. The **AL-NSG** is a portable battery-powered Gateway simulation device that generates continuous Gateway radio signals to an **AL-NSM**.

Depending on how you use the **AL-NSG**, the **AL-NSG** can be placed in the proposed location for a Gateway or in the proposed location of a lock, to determine the acceptability and the dependability of the radio signal coverage. The **AL-NSG** can be mounted using the inert nylon lanyard or reusable adhesive mounting putty (supplied with the **AL-NSG**).



AL-NSG Signal Generator

"VERSION 2" CONSIDERATIONS

- Before adding any of the current wireless Expander models (**AL-IME2-EXP** and **AL-IME2-PIE**) at least one version 2 Gateway (**AL-IME2-80211**, **AL-IME2** and **AL-IME2POE**) must be installed and operational in your system. The new wireless Expanders cannot communicate with any of the older Gateways (**AL-IME**, **AL-IM80211**, **AL-IMEPOEP** and **AL-IME-USB**).
- Version 2 Gateways and Expanders require DL-Windows version 5.4.2 or later.
- Mixing older Gateways with Version 2 Gateways is supported by DL-Windows version 5.4.2 or later.
- Compared with the original "version 1" Gateways, the "Version 2" Gateways have a different enclosure design, the operation and colors of the LEDs are different, and the location of the hidden Ethernet socket is through the rear mounting plate.

Note: The **AL-IME2-POE** Gateway is compatible with Alarm Lock and Continental Access products. Refer to the documentation supplied with your software for integration details.



Lock Design Overview

Why use User Codes?

With ordinary door locks, the need to make physical copies of metal keys and distributing them can be a huge organizational and financial task -- and what will you do if someone causes a security breach by accidentally losing their key?

The answer lies in the advantage of "firmware". The firmware inside the lock can be programmed (and re-programmed again and again) to suit your changing requirements. No more metal keys to distribute...instead, distribute *User Codes* -- and delete them from the firmware when needed. A *User Code* is the firmware equivalent of a metal key--it is a series of numeric button-presses at the lock keypad to allow (for example) passage through a door.


Preparing to Program User Codes

The PDLN4100 / PDLN4500 keypad contains 12 buttons, numbers 1 through 9 plus zero, a star button () and a special "AL" button (). You can use the keypad to program your lock, or you can use a computer program called DL-Windows that can be configured to program your system wirelessly. This guide will show you how to program your lock using the keypad, without DL-Windows. (For more information about DL-Windows, see User Guide OI382; for information about using DL-Windows within the Networx wireless system, see OI383).




Before you can program your PDLN4100 / PDLN4500 lock using the keypad, you must first enter something called "Program Mode".

What is Program Mode?

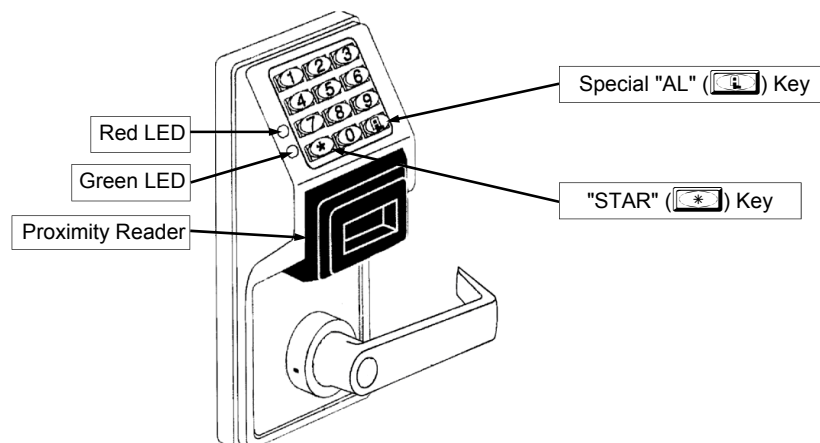
The software has only two "modes"--"Normal Mode" and "Program Mode". When you want to make changes to the lock program, you enter "Program Mode". When you finish programming and wish to put the lock into use, you exit "Program Mode" to enter "Normal Mode".

You can enter Program Mode using the keypad by pressing the *Master Code* of the lock that was set at the factory (then wait for the green light and press  until multiple beeps are heard). The Master Code is basically a secret 6-digit "passcode" that allows you to enter Program Mode. But since all locks are identical and leave the factory with the same Master Code, this factory Master Code is therefore not very secret--and should be changed to your own personal Master Code. This way, only YOU can enter Program Mode and make changes to the lock programming.

Once the new Master Code is set, then you can continue with the *Quick Start* procedure and set the weekday, date and time. After this, you can start entering User Codes for people to use. All changes to the lock are organized by their Function Number. Want to change the date? Use Function Number 38. Want to add a User Code? Use Function Number 2. There are 99 Functions in total, some that you will use often, and others that you may never need.

Notice that when you program your lock, programming tends to follow a consistent 5-step pattern: (1) Enter Program Mode (2) Press  followed by the Function # (3) Press  and enter data (4) Press  to end (5) Exit Program Mode to put the lock into use.

Turn the page and learn about the special terminology used with your lock. Once that is clear, use the Quick Start procedure on page 15 to help you get up and running.



Terminology Used in this Manual

What is a Lock Program?

A Lock Program contains the instructions that the lock uses to perform its various functions. You can also use DL-Windows (defined below) to create a Lock Program on your computer, and then transfer and store the Program in the circuitry contained inside the lock itself. The Lock Program is essentially a computer database file that maintains feature settings, schedules, audit trails, etc. Using DL-Windows, a Lock Program (called a "Lock Profile" in DL-Windows) can be created with default information, edited on your PC, and then sent to (and even received from) the lock.

The **Lock Program** consists of 4 areas: **User Codes**, **Features**, **Time Zones**, and **Schedules**, all defined below:

What are User Codes?

Also called *User Access Codes*, *passcodes*, or *PIN No. Codes*, User Codes are digits the User enters (presses) into the lock keypad to unlock the lock. The User Codes are part of the Lock Program, and the Lock Program is stored in the lock circuitry awaiting the Users to key in their User Codes.

What are Features?

Your lock is designed to support various options. Using the keypad or DL-Windows software, you can select those you wish to activate, such as if the lock will automatically adjust for Daylight Saving Time in the spring and autumn, or if the lock sounder should be disabled or enabled.

What is a TimeZone?

Events (recorded lock activities) can be programmed to occur at certain times. It is these times (for example, "every Tuesday at 5PM") that are referred to as *TimeZones*. TimeZones can be created manually through the keypad. In DL-Windows, you can use the **Schedule-TimeZone** screen to create these TimeZones, and once created, you can link events to these TimeZones.

What is a Schedule?

Your lock can be programmed to maintain a schedule in which certain events can occur automatically. For example, you can program the lock to allow Groups of Users (with their User Codes) access ONLY during specific business hours. With another example, you can program another lock to UNLOCK at 9AM, LOCK at noon for lunch, UNLOCK at 1PM, and LOCK again at 5PM--every weekday. As you can see, many different combinations of Schedules can be created to suit the needs of the Users. First you create *TimeZones* (see above). Next you create events and link them to your TimeZones (also using the **Schedule-TimeZone** screen in DL-Windows). When finished, you can view (in DL-Windows) your schedule in the **Schedule View** screen.

What is a User?

A User is a person who is authorized to simply use or make certain programming changes to the lock. This User can be anyone--from a one-time visitor (who will almost certainly have no authority to make changes) to the owner of the building in which the lock is installed (who will probably wish to have total authority to make changes). The PDLN4100 and PDLN4500 series locks can each hold up to 5000 Users (each with their own User Code) in its programming memory, and each User possesses a pre-defined level of authority--a **Programming Level**--as to their ability to use or make changes to the lock.

What is a Programming Level?

The Programming Level defines the range of programming tasks a

User is allowed to perform. The higher the Level, the more programming tasks the User is allowed (with Master allowing ALL tasks).

Note: Since the Programming Level is closely associated with the type of User and their abilities, a User who holds a certain Programming Level is sometimes referred to by their "**User Type**".

For example, PDL series locks can hold up to 5000 Users in its programming memory, and each User is associated with a User Number (see definition of "User Number" below) and therefore a specific Programming Level, as follows:

Master: Always associated with User Number 1. Is always enabled and can program all functions. (Abbreviated as Programming Level = M).

Installer: Always associated with User Numbers 2 and 3. Can program all functions except changing the Master Code. (Abbreviated as Programming Level = 4).

Manager: Always associated with User Numbers 4, 5, and 6. Can program all functions except functions relating to lock configuration. (Abbreviated as Programming Level = 3).

Supervisor: Always associated with User Numbers 7, 8 and 9. Can only program functions relating to day to day operation. (Abbreviated as Programming Level = 2).

Print Only Users: In previous versions of the ALARM LOCK Trilogy series locks, *Print Only Users* were always associated with User Numbers 10 & 11 and were restricted to printing event logs only, using a special AL-IR1 handheld printer. With the PDLN4100 or PDLN4500 series wireless lock no longer requiring (or allowing) the use of this AL-IR1 printer, *Print Only Users* are also no longer required. Although the attributes of User Numbers 10 and 11 have been changed to replicate those of "Basic Users", to ensure compatibility with previous lock model versions the use of User Numbers 10 and 11 with the PDLN4100 / PDLN4500 lock is not recommended.

Basic Users: Always associated with User Number 12 and higher (except 297-300). No programming ability allowed. Most Users are *Basic Users*, who are given their own personal User Codes and are only allowed to simply unlock the lock when desired.

Programming Levels are hierarchical--higher levels are allowed to do anything the levels below them can do. For example, if you are a *Manager*, you are allowed to do anything that *Supervisors* and *Basic Users* can do in addition to those tasks allowed for Managers (Level 3).

What is the Minimum Required Program Level?

This Programming Level abbreviation is the *minimum* programming level required to access the particular Function. (The higher the level number, the more programming tasks the User is allowed, with Master allowing all tasks).

In this manual, Programming Levels for the PDLN4100 / PDLN4500 are abbreviated as follows: **M** = Master, **4** = Installer, **3** = Manager, **2** = Supervisor.

The Master is abbreviated with an "M", and all other Levels are hierarchical, with higher levels being allowed to do anything the levels below them can do. Therefore Level 4 is "higher" than level 3. See page 9 for more information.

What is a User Number?

(*User Number = Location Number = User Location = Slot in Lock*)

User Numbers are used and are significant within each individual lock only. The User Number determines the Programming Level for each User. For example, the PDLN4100 or PDLN4500 series lock can each hold up to 5000 Users in programming memory. This

Terminology Used in this Manual (cont'd)

memory can be thought of as simply a numbered list from 1 through 5000. Each entry in the list is represented by a User Number. Therefore, *where* a User is located in this list—their *User Location*—is a commonly used description of their User Number. Because of their similarities, a *User Number*, *User Location* and *Location Number* can be used interchangeably. In some DL-Windows screens, the word "Slot" is also used. They all mean the same thing.

Since User Numbers are fixed, knowing a User Number will specify the associated Programming Level, and will in turn indicate a User's programming abilities. For example, User Number 1 is always the Master, who can perform all programming tasks.

Programming Levels are hierarchical—higher levels are allowed to do anything the levels below them can do. For example, if you are User 2, you are allowed to do anything that Users 3 through 11 can do.

What is a Group?

With many lock applications, it is convenient for large numbers of similar Users to be grouped together. Placing Users into Groups (by assigning them specific User Numbers) allows large numbers of Users to be controlled all at once rather than individually—saving time and effort. Groups are controlled via schedules, and a typical example involves enabling or disabling a Group at a certain time. Default Group associations are specified in the table on page 9. For example, if you wish to add a User to Group 1, assign this User a User Number between 51 and 100. These default Group associations can be changed if needed to allow Groups larger than the default number of 50 (by using keypad Function 35). (See page 22 for some Group function examples).

What is DL-Windows?

DL-Windows is a computer program that allows you to program your ALARM LOCK T3 Security Lock. You do not need DL-Windows to program your lock, but it makes programming much faster and easier. With DL-Windows, you can quickly create Lock Programs (programs that make the lock perform its many functions) add multiple Users (who have access), add proximity credentials, retrieve event logs, and create Schedules. The benefit of DL-Windows is that it allows you to set up all lock programming in advance (on your computer), and then later send the information to the locks at your convenience.

DL-Windows version 4.0.1 software (or later) allows you to upload and download programming features *wirelessly* using the Trilogy Network™ PDLN4100 / PDLN4500 series door locks and a computer network. See OI237 for more information.

How do the Emergency Commands work?

For use with all PDLN4100 / PDLN4500 series locks enrolled into the Trilogy Network™ radio network, these wireless commands can be sent to all locks in an Account during a crisis or other urgent situation.

By default, Administrative Users (Users 1-11) can send an Emergency command. In addition, any User Code can be programmed to allow the use of these Emergency Commands by simply adding that User Code to an "Emergency Users" list within DL-Windows. When an enabled User Code is pressed at any lock keypad, first the lock unlocks, then the lock permits the use of these emergency commands to be sent to all locks in the network, as follows:

- ...press **9 1 1** to issue "**Emergency Lock Down**", to indefinitely lock all doors;
- ...press **0 0 0** to issue "**Emergency Passage**", to indefinitely unlock all doors;
- ...press **1 2 3** to issue "**Return to Normal**" returning all doors to "normal" (non-emergency) operation.

In addition, emergency commands may be sent via an RR-4BKEYFOB. **Note:** 3 chirps sound after each emergency command entry. See page 11 and the DL-Windows User Guide OI383, "**Emergency Commands**" for more information. **Note:** DL-Windows does not need to be running to allow these "Emergency" commands to be initiated; **any** PDLN4100 / PDLN4500 series lock keypad can be used to disseminate these commands throughout the system.

Who are Users 297-300?

Users assigned to User Numbers 297, 298, 299 and 300 have special abilities, as follows:

User 297: Quick Enable User 300

User 297 possesses the unique ability to enable the User Code associated with User 300. User 297 does this by first entering their own *User 297 User Code* into the lock keypad. When User 300 subsequently enters their *User 300 User Code*, the lock allows access (for one time) and then the *User 300 User Code* becomes disabled.

For example, you wish to allow one-time access to a temporary worker. Simply enter the *User 297 User Code* into the lock keypad. Later, when the temporary worker enters the *User 300 User Code* into the lock keypad, the *User 300 User Code* allows access (for one time only) and then becomes disabled. Later, if you wish to grant the temporary worker re-access, simply re-enter the *User 297 User Code* and the *User 300 User Code* will be re-enabled (again for one time only). **Note:** From the factory, the User 300 User Code is blank; when the User 300 User Code is added, it is automatically enabled by default. In addition, each time Features or Users are uploaded to the lock, the User 300 User Code is re-enabled in ALL the locks in the Account.

User 298: Reserved

In previous versions of the ALARM LOCK Trilogy series locks, User Number 298 initiated the sending of data to or from the lock, and a special "AL-PCI" cable was used to physically connect the lock to a PC running DL-Windows. With the PDLN4100 / PDLN4500 series wireless locks no longer requiring a wired connection, User Number 298 is also no longer required and has been removed as an active code. Note that the User 298 code does provide a "Guard Tour" type function (logging the code entry with a time and date stamp in the Event Log / Audit Trail), but to ensure compatibility with previous lock model versions, the use of User 298 with the lock is not recommended. **Note:** User 298 is not an access code (it is a "non-pass" code) and therefore does not allow passage through the door. See "**User 299: Guard Tour Code**" below.

User 299: Guard Tour Code

A *Guard Tour Code* is used to log the movement of a security guard as he or she makes rounds from one assigned guard tour station to the next. Entering the User 299 code provides precise verification and accountability of a guard's movement by logging the location with a time and date stamp in the Event Log (Audit Trail).

Note: User 299 is not an access code (it is a "non-pass" code) and therefore does not allow the security guard to pass through the door.

User 300: One-Time Only Service Code

This is a *One-Time Only Service User Code* enabled by User 297. For example, User Code 300 is sometimes used for guard tour duties. See *User 297: Quick Enable User 300* above.

Programming Levels

The Programming Level defines the range of programming tasks a User is allowed to perform. The higher the Level, the more programming tasks the User is allowed (with Master allowing ALL tasks).

Note: Since the Programming Level is closely associated with the type of User and their abilities, a User who holds a certain Programming Level is sometimes referred to by their "User Type".

For example, PDL series locks can hold up to 5000 Users in its programming memory, and each User is associated with a User Number (see definition of "User Number" in the previous "Terminology" section) and therefore a specific Programming Level, as follows:

Master: Always associated with User number 1. Is always enabled and can program all functions. (Abbreviated as Programming Level = M).

Installer: Always associated with Users 2 and 3. Can program all functions except changing the Master Code. (Abbreviated as Programming Level = 4).

Manager: Always associated with Users 4, 5, and 6. Can program all functions except functions relating to lock configuration. (Abbreviated as Programming Level = 3).

Supervisor: Always associated with Users 7, 8 and 9. Can only program functions relating to day to day operation. (Abbreviated as Programming Level = 2).

Print Only Users: In previous versions of the ALARM LOCK Trilogy series locks, *Print Only Users* were always associated with User Numbers 10 and 11 and were restricted to printing event logs only, using a special AL-IR1 handheld printer. With the PDLN4100 / PDLN4500 series wireless locks no longer requiring (or allowing) the use of this AL-IR1 printer, *Print Only Users* are also no longer required. Although the attributes of User Numbers 10 and 11 have been changed to replicate those of "Basic Users", to ensure compatibility with previous lock model versions the use of User Numbers 10 and 11 with the lock is not recommended.

Basic Users: Always associated with User number 12 and higher (except 297-300). No programming ability allowed.

Programming Levels are hierarchical--higher levels are allowed to do anything the levels below them can do. For example, if you are a *Manager*, you are allowed to do anything that *Supervisors* and *Basic Users* can do in addition to those tasks allowed for Managers (Level 3).

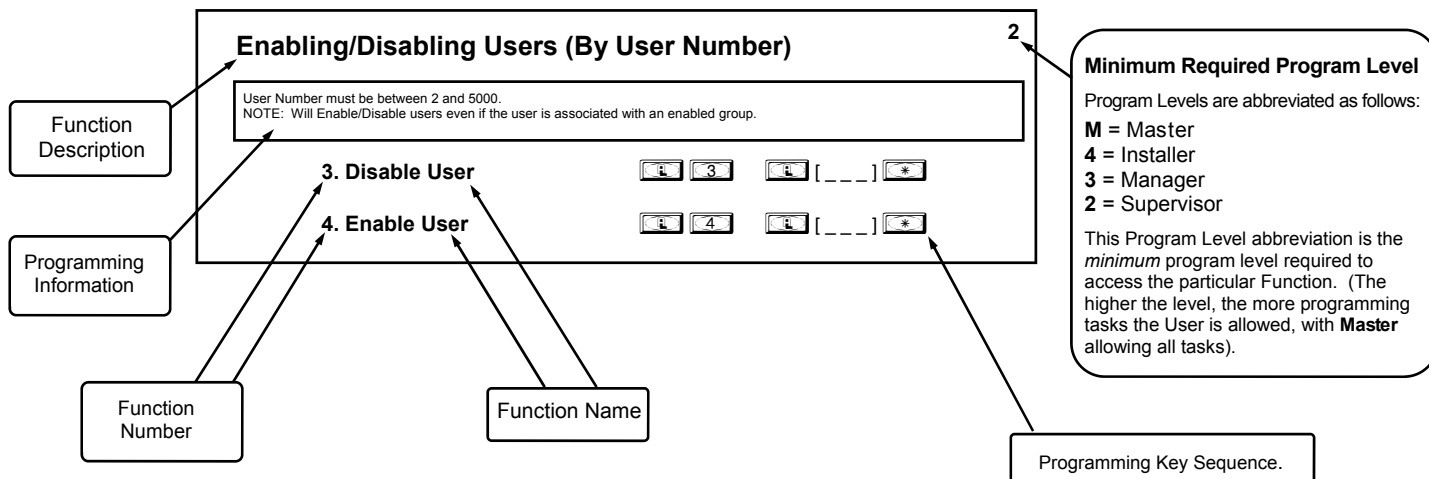
Lock Defaults for PDLN4100 / PDLN4500

Users added will default to a Group Association and a Programming Level ability as follows:



USER TYPE	USER NUMBER	GROUP DEFAULT ASSOCIATION	MINIMUM PROGRAM LEVEL (See page 7)
Master Code	1	-	M
Installer Codes	2 & 3	none	4
Manager Codes	4 - 6	none	3
Supervisor Codes	7 - 9	none	2
(Reserved--see "Print Only Users" above)	10 - 11	none	--
Basic User Codes	12 - 50	none	none
Basic User Codes Group 1	51 - 100	1	none
Basic User Codes Group 2	101 - 150	2	none
Basic User Codes Group 3	151 - 200	3	none
Basic User Codes Group 4	201 - 250	4	none
Basic User Codes	251 - 296	none	none
Quick Enable User 300 Code	297	none	none
(Reserved--see page 8)	298	none	none
Guard Tour Code*	299	none	none
Service Code	300	none	none
Basic User Codes	301-5000	none	none

*This code is a *Non-Pass* code and therefore does not allow passage through the door.

Conventions Used in this Manual



General Program Mode Information

If a wrong key is pressed during code entry, press the  key until the error sound is heard (7 short beeps), this will clear the entry. Re-enter the key sequence again.
 All program sequences are followed by the  key; 2 short beeps indicate a successful program sequence.

LED and Sounder Indicators

The PDL series locks provide visual and audible keypad feedback. With a fully charged battery, the LED and sounder feedback is as follows:

ACTIVITY	LED	SOUNDER	COMMENTS
Keypress	1 RED Flash	1 Beep	Normal Operation
Access Granted or Remote Release	2 GREEN Flashes	2 Beeps	Valid credential (proximity credential, User Code, Remote Input or Wireless Remote Release)
Invalid Credential	7 RED Flashes	7 Beeps	
Successful Program Entry	2 GREEN Flashes	2 Beeps	When in Program Mode
Unsuccessful Program Entry	7 RED Flashes	7 Beeps	When in Program Mode
Exit Program Mode	1 RED, 2 GREEN Flashes	10 Beeps	
Valid but Disabled Credential	1 GREEN, 4 RED Flashes	1 long, 5 short beeps	Credential exists in memory, but disabled
Low Battery	RED LED and Sounder turn on steady for the duration of the Pass Time		See page 14 before changing batteries; see Functions 52-54 for the definition of "Pass Time"
Emergency Commands are in effect	1 Red Flash every two seconds	Optional: Pulsing beep (once per second) for 30 seconds	See page 11; also see OI382 and OI383 for more information.

Emergency Commands

Emergency Commands

The PDLN4100 / PDLN4500 series locks can be programmed to send and/or respond to Emergency Commands ("Emergency Lock Down", "Emergency Passage" and "Return to Normal"). Emergency Commands can be initiated directly from the lock's keypad, initiated from an RR-4BKEYFOB *Wireless Remote Release* or initiated from the Network server running DL-Windows. (Note: "Emergency Passage" is not available with the *Wireless Remote Release*). Emergency Commands are available in two types: "Global" or "Local".

- With "Global Emergency Commands", activating the Emergency Command changes the state of all locks in the entire system.
- With "Local Emergency Commands", only the lock that initiates the Emergency Command will change state; activating the Emergency Command does NOT change the state of all locks in the entire system.

For more information about how Emergency Commands work with your ENTIRE system, see the *DL-Windows for Network User's Guide* (OI383).

Understanding "Global" vs. "Local"

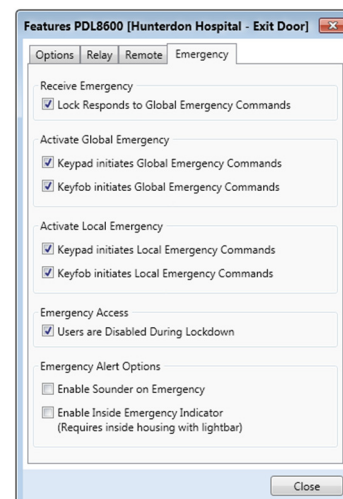
The following features should be understood before using **Emergency Commands** with your lock. Below describes the various features available for **Global Emergency Commands** or **Local Emergency Commands**, or combinations of both.

TIP: If using an RR-4BKEYFOB *Wireless Remote Release*, before reading this page, we recommend that you read the documentation that came with it, and also the "**Wireless Remote Releases**" section on page 13.

Receiving Emergency Commands

Lock Responds to Global Emergency Commands

- **When enabled:** The lock **WILL** accept and adhere to Emergency Commands that disseminate from another lock or from DL-Windows. **Note:** This feature does not need to be enabled (checked) for the lock to accept commands from an RR-4BKEYFOB *Wireless Remote Release*.
- **When disabled:** The lock **WILL NOT** accept nor adhere to Emergency Commands that disseminate from another lock or from DL-Windows. **CAUTION:** *Disabling (un-checking) this feature could be of great consequence for the safe administration of your Network system.*



Activating Global Emergency Commands

Keypad initiates Global Emergency Commands: When enabled (checked), if an Emergency Command is initiated from the keypad, the lock will first inform the Gateway to broadcast the Emergency Command to all locks assigned to the same "**Gateway Group**", **then** the lock will respond to that Emergency Command accordingly (if the above "**Lock Responds to Global Emergency Commands**" is enabled).

Keyfob initiates Global Emergency Commands: When enabled (checked), if an Emergency Command is initiated from an RR-4BKEYFOB *Wireless Remote Release*, the "paired" lock will first inform the Gateway to broadcast the Emergency Command to all locks assigned to the same "**Gateway Group**", **then** the paired lock will respond to that Emergency Command accordingly (if the above "**Lock Responds to Global Emergency Commands**" is enabled).

Note: See OI383 for more information about Gateway Emergency Groups.

Activating Local Emergency Commands

Keypad initiates Local Emergency Commands: When enabled (checked), if an Emergency Command is initiated from the keypad, the lock will immediately change state accordingly. The Emergency Command will NOT be sent to the Gateway and therefore will NOT be sent to other locks in the system.

Keyfob initiates Local Emergency Commands: When enabled (checked), if an Emergency Command is initiated from an RR-4BKEYFOB *Wireless Remote Release*, the paired lock will immediately change state accordingly. The Emergency Command will NOT be sent to the Gateway and therefore will NOT be sent to other locks in the system.

TIP: Combining Global and Local Features: You can combine the various Global and Local Emergency fea-

Emergency Commands (cont'd)

tures to customize your system.

Example #1: DL-Windows by default enables (checks) all of the features, as shown above in the **Features** dialog. What will happen when all features are enabled and an **"Emergency Lock Down"** command is initiated at the keypad? Because the **Activate Local Emergency** commands are enabled, the lock that initiates the Emergency Command will lock down, then the lock will inform the Gateway to broadcast the Emergency Command to all locks assigned to the same **"Gateway Group"**.

Example #2: This example is known as the "pull station option", where one of the **Activate Global Emergency** commands is checked, none of the **Activating Local Emergency** commands are checked, and the **"Lock Responds to Global Emergency Commands"** is unchecked. If an **"Emergency Lock Down"** command is initiated at a lock keypad, the lock will first inform the Gateway to broadcast the Emergency Command to all locks assigned to the same **"Gateway Group"**, then the lock will ignore the broadcast when received.

Emergency Users

Activating Emergency Commands

By default, Administrative Users (Users 1 through 11) automatically have the ability to initiate Emergency Commands from the keypad. In addition, "Basic Users" (Users 12+) may be granted the ability to initiate Emergency Commands from the keypad by adding them as Emergency Users in DL-Windows (for more information about adding Emergency Users in DL-Windows, see OI383). **Note:** All paired Wireless Remote Releases have the ability to initiate Emergency Commands (see page 13 for more information).

When a User Code from an Administrative or Emergency User is pressed at any lock keypad, first the lock unlocks, then the lock permits the use of the following Emergency Commands:

[_ _ _ _]	...press [9][1][1] to issue "Emergency Lock Down"
Administrative or Emergency User Code	...press [0][0][0] to issue "Emergency Passage"
	...press [1][2][3] to issue "Return to Normal"

Access During an Emergency

- **When enabled:** If the feature **Users are Disabled During Lockdown** is enabled (checked) for a specific lock, and when the Networkx system is in an Emergency Lock Down state, "Basic Users" (Users 12+) are denied the ability to unlock the physical lock (User Codes / proximity credentials for these Basic Users are ignored). The User Codes / proximity credentials added to Administrative Users (Users 1 through 11) as well as all "Emergency Users" **remain enabled**, retaining the ability to unlock a secured lock.
- **When disabled:** If the feature **Users are Disabled During Lockdown** is disabled (unchecked) for a specific lock, and when the Networkx system is in an Emergency Lock Down state, ANY valid User Code or proximity credential that exists in the lock's internal memory will be allowed to unlock the secured lock, regardless of User Number.

Emergency Alert Options

Sounder

If **Enable Sounder on Emergency** is enabled (checked), upon receiving an Emergency Command, the integral sounder will beep once per second for 30 seconds.

Emergency Indicator

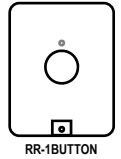
When the feature **Enable Inside Emergency Indicator** is enabled (checked), upon receiving the Emergency Command, the "lightbar" (located on the inside housing) flashes a red LED once per second for the duration of the Emergency. For locks equipped without the lightbar, the internal relay will activate once per second.

Tip: Only "Local" Emergency Commands are supported when using an **AL-IME-USB** Gateway . See page 4 for Gateway model descriptions.

Wireless Remote Releases

Overview

Two types of "Wireless Remote Release" devices are compatible with the **PDLN4100 / PDLN4500** series door locks: The RR-1BUTTON *Wireless Remote Release Button* (see WI1999) and RR-4BKEYFOB *Wireless Remote Release Keyfob* (see WI2004). Whether the Wireless Remote Release contains a single button (RR-1BUTTON) or four buttons (RR-4BKEYFOB), each button can be "paired" (connected) with one lock. This means, for example, the four buttons on the RR-4BKEYFOB can each be paired with four separate **PDLN4100** series locks. In addition, each individual lock contains ten (10) "slots" ("User Numbers"), and each "slot" is available to accommodate one paired Wireless Remote Release button. Therefore, each individual lock can ultimately be paired with up to ten Wireless Remote Release buttons on multiple Wireless Remote Release devices.



Note: Since each button can ONLY be paired with one specific lock at a time, when a previously paired button is later paired with a second lock, the first pairing is erased.

Before you "pair" (connect) your Wireless Remote Release buttons, be sure to consider the following:

- Wireless Remote Releases can be paired before a lock is enrolled into a Network system. However, to allow for lock discovery, the lock must be defaulted and re-initialized (see **ERASE ALL PROGRAMMING** on page 14), clearing all previously programmed Users and/or paired Wireless Remote Releases.

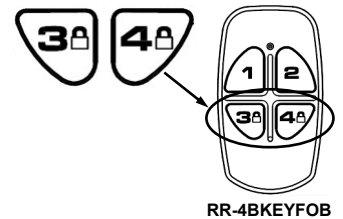
Pairing Wireless Remote Release Buttons

Refer to the programming instructions included with the model RR-1BUTTON *Wireless Remote Release Button* (see WI1999) and/or the model RR-4BKEYFOB *Wireless Remote Release Keyfob* (see WI2004).

Emergency Lock Down (via Wireless Remote Release)

The **PDLN4100 / PDLN4500** series lock has the added ability to accept Emergency Lock Down commands from a Wireless Remote Release (model RR-4BKEYFOB only). Using the RR-4BKEYFOB, when buttons 3 and 4 are pressed simultaneously, within seconds an Emergency Lock Down command is sent to all locks to which the RR-4BKEYFOB is currently paired (up to 4). Conversely, pressing buttons 1 and 2 simultaneously will send a Return to Normal command, returning the paired locks back to the state they were in prior to receiving the Emergency Lock Down command.

See page 11 for the two different modes (see the section "**Global**" vs. "**Local**") to which the lock will respond when an Emergency Command when sent from a Wireless Remote Release.



Wiring and Power Up

WIRING

See the Installation Manual for more information.

Batteries:

Use four 1.5 volt size-C batteries (Alkaline only) or an Alarm Lock pre-wired battery pack assembly.

External Power:

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

Remote Input:

White / White wires - For Remote Release functionality, wire a Normally Open Contact to wires. Momentarily close the contact to allow person to pass through door.

NOTE: Remote Input is enabled from the factory. (See Functions 64 and 65)

Relay (where equipped):




COM-Orange / NO-Green / NC-Yellow - See Function 67 for the relay programming features.

Wiring to Disarm a Burglary Control Panel

Burglary Control Panel wiring. See page 33.

POWER UP

First Time Start Up

1. Unpack the lock from its factory packaging.
2. With the batteries disconnected, hold down the  key for 10 seconds and release.
3. Connect the batteries and listen for 3 beeps; immediately press and hold . Once beeping begins, release the  key.

Important: If you do not hear these 3 beeps, you must start over at step 2.


4. The lock will continue to beep and flash the red LED while residual programmed data clears and the lock initializes. A final 2 beep/green flash sequence will occur, indicating completion of the power up procedure.

Note: This step can take up to 15 seconds. The lock is now ready to program.

Failure to follow this exact procedure can result in erratic lock behavior.

Power Re-Applied




When power is re-applied to a lock that was already operational, proceed as follows:

1. Disconnect battery pack connector.
2. With battery power disconnected, press and hold down  for 10 seconds to insure discharge of all capacitors.
3. Re-connect battery pack (lock will sound 3 short beeps). If beeps are not heard, then restart at step 1.
4. **Do not press any keys for 15 seconds.**
5. After 15 seconds, the LED will flash red 6 times and 6 beeps will sound.

The lock is now ready for use. The pre-existing program is loaded from fixed memory. Set the clock using DL-Windows or functions 38, 39 and 40.

ERASE ALL PROGRAMMING

(Identical to **Power Up: First Time Start Up**; the "out of box" factory default settings will be loaded, but will maintain audit trail / event log contents).

1. Unpack the lock from its factory packaging.
2. With the batteries disconnected, hold down the  key for 10 seconds and release.
3. Connect the batteries and listen for 3 beeps; immediately press and hold . Once beeping begins, release the  key.
4. The lock will continue to beep and flash the red LED while residual programmed data clears and the lock initializes. A final 2 beep/green flash sequence will occur, indicating completion of the power up procedure.

Important: If you do not hear these 3 beeps, you must start over at step 2.

Note: This step can take up to 15 seconds.

Failure to follow this exact procedure can result in erratic lock behavior.

All settings and programming have been erased and the lock is now ready for use. **Note:** All lock programming can also be erased (without need to disconnect the batteries) by entering Function 99 on page 34.

BATTERY REPLACEMENT

When a key is pressed (or a proximity credential is presented) and the batteries are weak, the red LED will light and a steady tone will sound for the duration of the Pass Time ("Pass Time" is the duration the lock remains unlocked after access is granted).

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.

CAUTION: Do not press any keys while batteries are disconnected or you may erase the real-time clock settings.

1. On the inside housing, remove the two screws and detach the battery cover.
2. Pull out the battery pack and quickly replace all 4 batteries - within 1 minute. For models with the sealed battery pack, simply unplug the old battery pack and plug in the new battery pack.
3. If you **do not** hear the 3 beeps when power is re-applied, all programming and settings have been retained, and the lock is ready for use. Go to step 5.
4. If you **do** hear 3 beeps when power is re-applied, **do not press any keys for 15 seconds.** After the 15 second period, the LED will flash red 6 times and 6 beeps will sound. Reset the clock using DL-Windows or functions 38, 39 and 40.
5. Replace the cover and tighten the screws.

Quick Start

First Time Start Up

Follow the "POWER UP, First Time Start Up" procedure on the previous page. **Important Note:** When entering any key sequence below, *do not pause more than 25 seconds between any key presses*—otherwise you must start again.

Enter Program Mode and Change Factory Master Code

1. Press the default Master Code: .

2. Wait for the green light and press until multiple beeps are heard. You are now in Program Mode.

Note: The lock will beep every 6 seconds as a reminder that you are in Program Mode.

3. Enter a new personal 6-digit Master Code number by pressing the following keys:

[new Master Code] [new Master Code] (the second set of digits must be exactly the same).

(For example, if you want your new Master Code to be "664433". Press:

.

Now that the Master Code has been changed, there is no need to change it again (unless you want to). Since you are still in Program Mode, you can now proceed directly below and program various functions. **Note:** Programming any Function, such as setting the clock, follows a consistent 5-step pattern: (1) Enter Program Mode (2) Press [Function #] (3) Press and enter data (4) Press to end (5) Exit Program Mode.

Note: There is a 3 minute Program Mode timeout if no keys are pressed when in Program Mode. A steady tone will sound for the final 15 seconds of the 3 minute timeout period as a warning. To remain in Program Mode, press any key.

Set the Weekday

1. Enter Program Mode (if not in already).

2. Press [number of weekday] . (Use 1= Sunday, 7 = Saturday).

(For example - Friday - press .

Set the Date

1. Enter Program Mode (if not in already).

2. Press [MMDDYY] .

(For example - May 10, 2002 - press .

Set the Time

1. Enter Program Mode (if not in already. If you just finished the above procedure, you are still in Program Mode).

2. Press [HHMM] . (Use 24-hour military format, where PM adds 12 hours).

(For example - 2:30pm - press .

Enter User Codes

1. Enter Program Mode (if not in already).

2. Press [User Number] [new User Code] .

(For example, John Smith is designated as User 21. You want him to use the code of "2323" to unlock the door. Program the lock by pressing: .

3. Repeat step 2 for each new user.

Delete a User Code

1. Enter Program Mode (if not in already).

2. Press [User Number] .

The sounder beeps for 10 seconds with green (and then red) LED flashes. At this point the lock expects a presentation of a proximity credential; but do nothing -- simply wait for the beeping to time-out (10 seconds). When beeping stops, the proximity and User Code data will be erased.

3. Repeat step 2 for each new User.

*See pages 18-19 for Privacy and Residency features

Quick Start (cont'd)

User Code Conflicts

Care should be taken not to program a new User Code which matches the first digits of any other User Code (only the User Code with the least number of digits will be recognized). **Example:** If User Codes 123 and 123456 are both entered in the system, only code 123 would be recognized, unless the **ENTER** Key has been enabled (see Function 69, see page 31). In addition, an error will sound if you try to program a new User Code that matches the first digits of the Master Code.

WARNING: When attempting to change an existing Master Code, it is HIGHLY recommended that you enable all Groups (see Function 23 on page 23), exit Program Mode, and enter the new anticipated Master Code to verify that the anticipated sequence does not currently open the lock. If the lock does not open, the anticipated Master Code can be used as the new Master Code; if the lock opens, the anticipated Master Code already exists in the lock (as a User Code), and the anticipated Master Code should NOT be used. Always repeat this procedure with any new anticipated Master Codes.

Enroll Proximity Credentials at the Lock

If you wish to enroll only one proximity credential ("Single Enrolling") or many ("Batch Enrolling"), the process is basically the same.

1. Enter Program Mode (if not in already).
2. Press [User Number] . (Enter the User Number you wish to match with the first proximity credential).
3. Lock will beep continuously. Place a new proximity credential in front of the reader (under the lock keypad). When the lock beeps three times, the credential has been enrolled.
4. Press to end the process. To return to normal operation, exit Program Mode (see below).

(Example: You wish to enroll two proximity credentials for User 14 and User 15 respectively. Press and place the first credential in front of the reader (hear 3 beeps) and then within 10 seconds, place the second credential in front of the reader (hear 3 beeps)).

You can continue entering credentials in this way, automatically incrementing the User number with each presentation of a proximity credential. When finished, press .

Note: Batch Enrolling will not program Users 297 through 300, as these are *Special Function* User Codes. After User 296 has been Batch Enrolled, the next credential presented will enroll as User 301.

High Security Access (ProxCARD & User Code Access)

Program the lock for High Security Access for **User Number 15**, with a proximity credential *and* a **User Code of 7452** required for access:

1. Enter Program Mode (if not in already).
2. Press .
3. Lock will beep continuously. Place a new proximity credential in front of the reader (under the lock keypad). When the lock beeps three times, the credential has been enrolled.
4. Press .

In order for User 15 to open the Lock, a User Code must be entered and a proximity credential must be presented to the reader. User may enter the code or present the proximity credential *in either order* to open the lock. The sounder will beep for up to 10 seconds, waiting for the User to enter their User Code and present their credential.

Delete a High Security Access Code

Note: Deleting a proximity credential associated with a User Number will also delete the User Code programmed for that User Number. Delete the proximity credential by not presenting any credential for enrollment, as follows:


1. Enter Program Mode (if not in already).
2. Press _ . (Enter the User Number matched to the proximity credential you want to delete).
3. Lock will beep continuously. Do not present ANY credential during this step. Wait until lock stops beeping, about 10 seconds.
4. Press to end.

*See pages 18-19 for Privacy and Residency features

Exit Program Mode

Hold Down any key for 3 seconds. Program Mode exit is confirmed by several beeps. You are now in normal operation.

Re-enter Program Mode

If you wish to re-enter Program Mode, key-in your new 6-digit Master Code, and press .

You are now ready to mount and install your PDL series lock and give out your User Codes. Before installation, it is suggested you test and verify that all User Codes entered are active (see below).

Note: See pages 18-19 for Privacy and Residency features.

Testing the Codes Entered

Verifying Basic Keypad User Codes

Test a valid User Code:

VALID CODE - The Green LED will flash momentarily and the sounder will beep a few times after a valid code is entered.

INVALID CODE - The RED LED will flash several times and the sounder will beep several times after an invalid code is entered. Use Function 2 to re-program the code.

Verifying Proximity Credential Access

Test a programmed proximity card or other proximity credential:

- Present the Programmed proximity credential to the proximity reader in front of the lock.

VALID CARD - The Green LED will flash momentarily and the sounder will beep a few times after a valid card has been presented to the lock.

INVALID CARD - The RED LED will flash several times and the sounder will beep several times after an invalid valid card has been presented to the lock. Use Function 2 to re-program the code.

Verifying High Security Access (Proximity Credential *and* User Code)

Test proximity credential programmed for High Security Access. The proximity credential *and* a User Code are both required for access.

1. Enter the User Code for the User Number programmed for High Security Access. The sounder will beep slowly for up to 10 seconds.
2. Present the proximity card programmed for the same User Number.

User may enter User Code or present the proximity credential in ***either order*** to open the lock. The sounder will beep for up to 10 seconds, waiting for the User to enter User Code or to present the proximity credential. **Note:** *Do not present the proximity credential and enter the User Code simultaneously.*

PDLN4100: Privacy and Residency Features

Note: To delete all previously programmed Privacy and/or Residency features: 6 8 0 0 0 *

If you wish to program the PDLN4100 for the Privacy Feature "Mode 1" (Door Normally Locked) --

The Privacy Feature "Mode 1" is designed to allow access to individuals with User Codes or proximity credentials and is typically used for rooms needing privacy from others such as bathrooms, dorms and meeting rooms.

Programming the PDLN4100 for the "Privacy Feature Mode 1" initially provides a normally locked state. To enter through a PDLN4100 protected door, the user must use a User Code, metal key, or present a proximity credential. Once inside, the user presses the button located on the inside lock housing to immediately disable the keypad and proximity reader, thus disallowing all "Basic User Codes" (users 12 and higher) from entering during the "**Privacy Time-Out Duration**" (Users 1 - 11 or a metal key can always override this Privacy feature with their User Codes or proximity credentials). The red LED on the outside lock housing blinks to indicate that the room is occupied. When this initial user exits, the PDLN4100 is automatically set back to its normally locked state and is ready to allow access to a future authorized user (with their valid User Code, metal key, or proximity credential). The "**Privacy Time-Out Duration**" can be programmed for up to 250 minutes*.

Disable Keypad / Prox on Button Press 6 7 3 5 *

The default "**Privacy Time-Out Duration**" is automatically set to 10 minutes (the maximum time this "Privacy Feature" is enabled). To program your desired duration from 001-250 minutes*, press the following sequence.

Privacy Time-Out Duration 6 8 [_ _ _] *

(3 digits)

If you wish to program the PDLN4100 for the Residency Feature

The "Residency Feature" is provided to prevent a person from unintentionally having the door lock behind them when stepping outside the door briefly. Typically used in retirement homes and college dormitories.

Programming the PDLN4100 for the "Residency Feature" will initially provide a normally locked state. To enter through a PDLN4100 protected door, the user must use a valid User Code, metal key, or present a proximity credential. The PDLN4100 will then re-lock when door is closed. *Turning the inside handle and exiting from the inside will unlock the PDLN4100 and set it to Passage Mode (unlocked).* Any of the following will restore the lock to its normally locked state.

1. The user returns, enters, and presses the button located on the inside lock housing.
2. Someone already inside the premises presses the button located on the inside lock housing.
3. Pre-programmed scheduling restores the lock to its normally locked state.
4. Entering a valid User Code or presenting a proximity credential. **Note:** The metal key will grant access but will not change the state of the lock.

Leave Unlocked on Exit (Passage) 6 7 3 7 *

Cancel Passage on Button Press 6 7 3 6 *

If you wish to program the PDLN4100 for the Privacy Feature "Mode 2" (Door Normally Unlocked)

The Privacy Feature "Mode 2" is designed to allow initial access to everyone and is typically used for rooms needing temporary privacy from others such as bathrooms, dorms and meeting rooms.

Programming the PDLN4100 for the Privacy Feature "Mode 2" initially provides a normally unlocked ("Passage Mode") state. No User Code nor proximity credential is required to enter. Once inside, the user presses the button located on the inside lock housing to immediately disable the keypad and proximity reader, thus disallowing all "Basic User Codes" (users 12 and higher) from entering during the "**Privacy Time-Out Duration**" (Users 1 - 11 or a metal key can always override this Privacy feature with their User Codes or proximity credentials). The red LED on the outside lock housing blinks to indicate that the room is occupied. When the initial user exits, the PDLN4100 is automatically set back to its original normally unlocked ("Passage Mode") state, again allowing access to everyone. The "**Privacy Time-Out Duration**" can be programmed for up to 250 minutes*. **Note:** Function 45 may only be programmed by using the keypad. In addition, Programmed Schedules will override the state of the lock using Functions 45 and 46. If it is required that programmed schedules do not override passage mode, Enable/Disable Passage Mode using Functions 48/49.

Disable Keypad/Prox On Button Press 6 7 3 5 *

Enable Passage Mode 4 5 *

The default "**Privacy Time-Out Duration**" is automatically set to 10 minutes (the maximum time this "Privacy Feature" is enabled). To program your desired duration from 001-250 minutes*, press the following sequence:

Privacy Time-Out Duration 6 8 [_ _ _] *

(3 digits)

*Enter "251" to enable "Privacy Terminated on Exit Only" (the Privacy Time-Out Duration ends when the inside handle is turned or if any admin code (or proximity credential) is entered).

PDLN4500: Residency and Privacy Features

Note: To delete all previously programmed Privacy and/or Residency features:

If you wish to program the PDLN4500 for the Residency Feature

The "Residency Feature" is provided to prevent a person from unintentionally having the door lock behind them when stepping outside the door briefly. Typically used in retirement homes and college dormitories.

Programming the PDLN4500 for the "Residency Feature" will initially provide a normally locked state. To enter through a PDLN4500 protected door, the user must use a valid User Code, metal key, or present a proximity credential. The lock will then re-lock when the door is closed. *Turning the handle and exiting from the inside will unlock the PDLN4500 and initiate Passage Mode (unlocked).* Any of the following will then restore the lock to its normally locked state.

1. The user returns, enters, and throws (extends) the deadbolt from the inside.
2. Someone already inside the premises throws (extends) the deadbolt.
3. Pre-programmed scheduling restores the lock to its normally locked state.
4. Entering a valid User Code or presenting a proximity credential. **Note:** The metal key will grant access but will not change the state of the lock.

Leave Unlocked on Exit (Passage)



Cancel Passage on Deadbolt



If you wish to program the PDLN4500 for the Privacy Feature "Mode 1" (Door Normally Locked)

The Privacy Feature "Mode 1" is designed to allow access to individuals with User Codes or proximity credentials and is typically used for rooms needing privacy from others such as bathrooms, dorms and meeting rooms.

Programming the PDLN4500 for the Privacy Feature "Mode 1" will initially provide a normally locked state. To enter through a PDLN4500 protected door, the user must use a valid User Code, metal key, or present a proximity credential. Once inside, the user throws (extends) the deadbolt to immediately disable the keypad and proximity reader, thus disallowing all "Basic User Codes" (users 12 and higher) from entering during the "**Privacy Time-Out Duration**" (Users 1 - 11 or a metal key can always override this Privacy feature with their User Codes or proximity credentials). The red LED on the outside lock housing blinks to indicate that the room is occupied. When the initial user exits, the PDLN4500 is automatically set back to its original normally locked state, again ready to allow access to a future authorized user (with their valid User Code, metal key, or proximity credential). The "**Privacy Time-Out Duration**" can be programmed for up to 250 minutes*.

Disable Keypad/Prox On Deadbolt



The default "**Privacy Time-Out Duration**" is automatically set to 10 minutes (the maximum time this "Privacy Feature" is enabled). To program your desired duration from 001-250 minutes*, press the following sequence

Privacy Time-Out Duration



(3 digits)

If you wish to program the PDLN4500 for the Privacy Feature "Mode 2" (Door Normally Unlocked)

The Privacy Feature "Mode 2" is designed to allow access to everyone and is typically used for rooms needing temporary privacy from others such as bathrooms, dorms and meeting rooms.

Programming the PDLN4500 for the Privacy Feature "Mode 2" will initially provide a normally unlocked (Passage Mode) state (thus no User Code nor proximity credential is necessary to enter). Once inside, the user throws (extends) the deadbolt to disable the keypad and proximity reader, thus disallowing all "Basic User Codes" (users 12 and higher) from entering during the "**Privacy Time-Out Duration**" (Users 1 - 11 or a metal key can always override this Privacy feature with their User Codes or proximity credentials). The red LED on the outside lock housing blinks to indicate that the room is occupied.

When the initial user exits, the PDLN4500 is automatically set back into the original normally unlocked (Passage Mode) state, again allowing access to everyone. The "**Privacy Time-Out Duration**" can be programmed for up to 250 minutes*.

Note: Function 45 may only be programmed by using the keypad. In addition, Programmed Schedules will override the state of the lock using Functions 45 and 46. If it is required that programmed schedules do not override Passage Mode, Enable/Disable Passage Mode using Functions 48/49.

Disable Keypad/Prox On Deadbolt



Enable Passage Mode



The default "**Privacy Time-Out Duration**" is automatically set to 10 minutes (the maximum time this "Privacy Feature" is enabled). To program your desired duration from 001-250 minutes*, press the following sequence:

Privacy Time-Out Duration



(3 digits)

*Enter "251" to enable "Privacy Terminated on Exit Only" (the Privacy Time-Out Duration ends when the inside handle is turned or if any admin code (or proximity credential) is entered).

Programming Functions--Overview

Function 1	Change Master Code	See page 21
Function 2	Add/Delete/Change User Codes	See page 21
Function 3	User Disable (By User Number)	See page 22
Function 4	User Enable (By User Number)	See page 22
Function 5	User Enable with Timeout	See page 22
Function 6	Enable Total User Lockout	See page 22
Function 7	Disable Total User Lockout	See page 22
Function 8	Exit Program Mode	See page 22
Function 9	Enable User 300 (Service Code)	See page 22
Function 10	Erase All Users Except the Master Code	See page 22
Function 11	Reserved	--
Function 12	Clear All Schedules and Timeout Functions	See page 23
Function 13	Clear All Timeout Functions	See page 23
Function 14 - 17	Group 1-4 Disable	See page 23
Function 18	Disable All Groups	See page 23
Function 19 - 22	Group 1-4 Enable	See page 23
Function 23	Enable All Groups	See page 23
Function 24	Reserved	--
Function 25 - 28	Group Disable with Timeout	See page 24
Function 29	Disable All Groups with Timeout	See page 24
Function 30 - 33	Group Enable with Timeout	See page 24
Function 34	Disable All Groups with Timeout	See page 24
Function 35	Group Add/Delete Association	See page 24
Function 36 - 37	Reserved	--
Function 38	Set Date	See page 25
Function 39	Set Time	See page 25
Function 40	Set Weekday	See page 25
Function 41	Daylight Saving Time Start Date	See page 25
Function 42	Daylight Saving Time End Date	See page 25
Function 43	Speed Up Clock	See page 26
Function 44	Slow Down Clock	See page 26
Function 45 - 46	Passage Mode Enable/Disable	See page 26
Function 47	Timed Passage Mode	See page 26

Function 48	Enable Passage Mode	See page 27
Function 49	Disable Passage Mode	See page 27
Function 50	Return Lock to Normal Passage Mode Schedule	See page 27
Function 51	Passage Mode Configuration	See page 27
Function 52 - 54	Pass Time	See page 27
Function 55	Reserved	--
Function 56	Reserved	--
Function 57	Reserved	--
Function 58	Reserved	--
Function 59	Reserved	--
Function 60	Number of Attempt Before Lockout	See page 28
Function 61	Set the Attempts Lockout Time	See page 28
Function 62 - 63	Reserved	--
Function 64 - 65	Disable/Enable Remote Input	See page 28
Function 66	Ambush Code	See page 28
Function 67	Set All Function 67 Features to "OFF"	See page 29
Function 68	Privacy Time-Out and Default All Function 67 System Features	See page 30
Function 69 - 70	Enable/Disable Enter Key	See page 31
Function 71	Reserved	--
Function 72 - 73	Scheduled Enable/Disable Passage Mode	See page 31
Function 74 - 77	Schedule Enable Group 1 - 4	See page 31
Function 78	Schedule Enable All Groups	See page 31
Function 79 - 82	Schedule Disable Group 1 - 4	See page 31
Function 83	Schedule Disable All Groups	See page 31
Function 84 - 87	Quick Schedules - Enable Group	See page 32
Function 88	Passage Mode (Open Time Window)	See page 32
Function 89	Passage Mode (Close Time Window)	See page 32
Function 90	Relay Activation (Open Time Window)	See page 33
Function 91	Relay Activation (Close Time Window)	See page 33
Function 92	Enable Group 4 (Open Time Window)	See page 34
Function 93	Enable Group 4 (Close Time Window)	See page 34
Function 94	Disable Radio	See page 34
Function 95 - 98	Reserved	--
Function 99	Clear All Lock Programming	See page 34

Programming Functions

USERS

1. New Master Code (User Number 1)



(New Master Code)

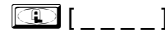


(Confirm New Master Code)

- Master Code must be 6 digits-only.
- Master Code is Keypad Code Access only.
- **Factory Default** = **M**
- See "Lock Design Overview" on page 6 for more information about Master Codes.

2. Adding and Deleting User Codes and/or Proximity Cards (for User Numbers 2-5000)

(Entering a "User Code" / "PIN No. Code" into the lock programming)

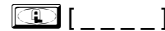


(User Number)



(User Code)

(Entering a Proximity Card)

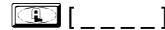


(User Number)

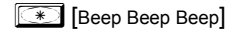


(Present card to reader within 10 seconds)

(Deleting Entire User)



(User Number)



(Wait 10 seconds for beeping to end)

- User Number must be between 2 and 5000.
- User Code must be 3-6 digits.
- Each User Code can be thought of as a person. As long as each person possesses their own unique User Code, you can control access to the lock by adding or deleting User Codes. See "Terminology Used in this Manual" on page 7 for more information.

3

Lock Defaults for PDLN4100 / PDLN4500

Users added will default to a Group Association and a Programming Level ability as follows:

USER TYPE	USER NUMBER	GROUP DEFAULT ASSOCIATION	MINIMUM PROGRAM LEVEL (See page 7)
Master Code	1	-	M
Installer Codes	2 & 3	none	4
Manager Codes	4 - 6	none	3
Supervisor Codes	7 - 9	none	2
(Reserved)	10 - 11	none	--
Basic User Codes	12 - 50	none	none
Basic User Codes Group 1	51 - 100	1	none
Basic User Codes Group 2	101 - 150	2	none
Basic User Codes Group 3	151 - 200	3	none
Basic User Codes Group 4	201 - 250	4	none
Basic User Codes	251 - 296	none	none
Quick Enable User 300 Code	297	none	none
(Reserved--see page 8)	298	none	none
Guard Tour Code*	299	none	none
Service Code	300	none	none
Basic User Codes	301-5000	none	none

*This code is a *Non-Pass* code and therefore does not allow passage through the door.

Programming Functions (cont'd)

USERS (Continued)

User Enable/Disable (By User Number)

- User Number must be between 2 and 5000.
- **NOTE:** Will Enable/Disable Users even if the User is associated with an enabled Group. Use Function 3 to disable a specific User Number and their associated User Code. If the disabled User Code is entered, the lock will flash 1 Green and 4 Red Flashes (with 1 long and 5 short beeps) indicating that the User Code exists in memory, but is disabled. Function 4 will "undo" Function 3.

2

3. Disable User



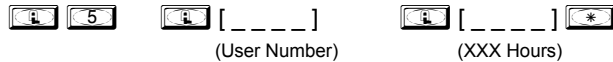
4. Enable User



5. User Enable with Timeout

(Enter Timeout, XXX Hours)

(This Function enabled through keypad only)



- With Function 5, User Numbers must be between 2-5000, hours must be between 001-999.
- Function 5 can temporarily override a disabled User (disabled using Function 3 above).
- Since this is a temporary feature, Function 5 can only be enabled using the keypad.
- **Example:** Brian, User Number 1157, rarely works at the office, but when he does, enable him for his 8 hour work day by entering Program Mode and pressing: [lock icon] [5] [lock icon] [1] [1] [5] [7] [lock icon] [0] [0] [8] [*].
- **NOTE:** Up to 4 Timeout Functions may be pending at any one time. An error beep will sound when attempting to program more than 4 Timeout Functions.

2

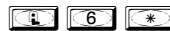
User Lockout Mode

Prevents all User Codes (Except User 1 Code) from operating the lock. **Note:** No other programming functions or schedules (including a DL-Windows data transfer) will re-enable Users. Users must be re-enabled with Function 7. **Note:** Does not change the User enable/disable status. **Note:** If the lock is currently in Passage Mode (door "unlocked") and Function 6 is programmed, the lock will remain in Passage Mode.

M

6. Enable Total User Lockout Mode

(This Function enabled through keypad only)



7. Disable Total User Lockout Mode

(This Function enabled through keypad only)



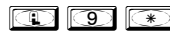
8. Exit Program Mode



Allows Program Mode exit for keypads without hold-down functionality, such as some Wiegand readers with integral keypads.

3

9. Enable User 300 (Service Code)



Service Code is a One-Time-Only Code. Once it is used, it is disabled until enabled again.

NOTE: User Number 297 is used to reset Service Code Use. See "Terminology Used in this Manual" on page 7 for more information and examples regarding special Users 297-300.

2

10. Erase All Users Except the Master Code (User 1)

(This Function enabled through keypad only)



Erases all User Codes except the Master Code (User 1).

- Function 10 can only be performed using the keypad.

M

11. Reserved

Programming Functions (cont'd)

CLEAR FUNCTIONS

12. Clear All Schedules and Timeout Functions



Function 12 clears all programmed *Schedules* and all *Timeout Functions*. (To clear All Timeout Functions only, see Function 13 below). Function 12 will clear all of the following: All Schedule Functions 72 through 93, Timeout Functions 5, 25 through 34 and Function 47. **Note:** Function 12 also resets Passage Mode and any disabled Groups. After using Function 12, your Scheduled/Timeout features must be manually re-programmed.

3

NOTE: Up to 4 Timeout Functions may be pending at any one time. An error beep will sound when attempting to program more than 4 Timeout Functions. This Function only disables the timeout; the event associated with the timeout will remain.

13. Clear All Timeout Functions



(This Function enabled through keypad only)

Function 13 clears all *Timeout Functions*. (To clear All Schedules and Timeout Functions, see Function 12 above). Function 13 will clear all of the following: All Timeout Functions 5, 25-34 and Function 47. After using Function 12, your Scheduled/Timeout features must be manually re-programmed.

3

NOTE: Up to 4 Timeout Functions may be pending at any one time. An error beep will sound when attempting to program more than 4 Timeout Functions. This Function only disables the timeout; the event associated with the timeout will remain.

Important: It is the responsibility of the lock programmer to verify the proper lock/unlock conditions and Group conditions after programming the lock with Function 12 and 13.

GROUPS

Group Enable/Disable

Enter the functions below to Enable/Disable Groups. Functions 14 - 23 will each override existing scheduled events. Therefore, Functions 14 - 23 are temporary, take effect immediately, and are always overridden by future scheduled events that already exist within the lock programming.

2

14. Disable Group 1



15. Disable Group 2



16. Disable Group 3



17. Disable Group 4



18. Disable All Groups



19. Enable Group 1



20. Enable Group 2



21. Enable Group 3



22. Enable Group 4



23. Enable All Groups



24. Reserved

PRIORITY ORDER

1. Disabled Users
2. Enabled Groups
3. Disabled Groups
4. Enabled Users

The Priority Order details which Function will take effect before ("have priority over") others. For example, as per the list above, Enabled Users have the lowest priority, and other Functions can affect the status of these Users. Disabling a Group (Functions 14-18) will take priority over the enabled Users in that Group, disabling them. Enabling Groups (Functions 19-23) will take priority over those tasks lower in the list, and finally disabling a User (Function 3) takes priority over all other tasks listed.

Programming Functions (cont'd)

GROUPS

NOTE: Clear All Timeout Functions by entering Function 13.

Group Enable/Disable with Timeout (Enter Timeout, XXX Hours)

(Functions 25-34 are enabled through the keypad only)

2

- Hours must be between 001-999. Enter the functions below to Enable/Disable Groups for the amount of time entered in hours. **NOTE:** Only 4 Timeout Functions are allowed at any one time. An error beep will sound when attempting to program more than 4 Timeout Functions. Functions 25 - 34 will each override existing scheduled events. Therefore, Functions 25 - 34 are temporary, take effect immediately, and are always overridden by future scheduled events that already exist within the lock programming. **NOTE:** Functions 25-34 are enabled through the keypad only.
- Example:** All 15 members of the Accounting Department are members of Group 4, and a schedule programmed in the department's door lock reflects their normal working hours of 9 AM through 5 PM, Monday through Friday. But one day a special event occurs, and all Accounting Department members are requested to stay an extra hour until 6 PM. Therefore, at 5 PM, the manager (wishing to temporarily enable Group 4 users for an extra hour) enters Program Mode and presses: . Likewise, if the manager wished to send his department home early at 3 PM, the manager could enter .

25. Timed Disable Group 1

(XXX Hours)

26. Timed Disable Group 2

(XXX Hours)

27. Timed Disable Group 3

(XXX Hours)

28. Timed Disable Group 4

(XXX Hours)

29. Timed Disable All Groups

(XXX Hours)

30. Timed Enable Group 1

(XXX Hours)

31. Timed Enable Group 2

(XXX Hours)

32. Timed Enable Group 3

(XXX Hours)

33. Timed Enable Group 4

(XXX Hours)

34. Timed Enable All Groups

(XXX Hours)

35. Group Add/Delete Association

(User Number) (Groups)

As per the chart on page 9, the lock's default programming from the factory associates certain User Numbers with certain Groups. To override these default Group associations, Function 35 manually associates (or disassociates) a selected User with a selected Group. During programming, Groups not selected are then disassociated from the User. Function 35 is helpful when the number of Users you wish to add to a Group outgrows the number of User Numbers defaulted to a Group (50); or if an existing User joins a department and you wish to simply add them to a Group.

- User Number must be between 2 and 5000; Groups 1-4 (to associate with User) may be selected.

Add Example: To associate User 67 with Groups 1, 2 and 4;

Enter:

Delete Example: To remove all Group associations for User 67;

Enter:

NOTE: If a User is associated with more than one Group, **all** associated Groups would have to be disabled before the User is disabled.

3

36 - 37. Reserved

Programming Functions (cont'd)

CLOCK SETTINGS

38. Set Date

3 8 [_ _ _ _] *
(Date)

- Use Month Day Year format - MMDDYY - Single digit months and days are entered with a preceding zero.
- Enter ONLY the last two digits of the year.

3

For Example: March 8, 2020; Enter:

3 8 0 3 0 8 2 0 *

39. Set Time

3 9 [_ _ _] *
(Time)

- Time must be 4 digits
- Use 24 Hour Format (add 12 hours to program PM time)

3

For Example: To set time to 8:25PM;

Enter: 3 9 8 2 0 2 5 *

For Example: To set time to 8:25AM;

Enter: 3 9 8 0 8 2 5 *

40. Set Weekday

4 0 [_] *
(Day)

- For day enter: 1 for Sunday, 2 for Monday, 3 for Tuesday, 4 for Wednesday, 5 for Thursday, 6 for Friday and 7 for Saturday.

3

For Example: To set day to Sunday;

Enter: 4 0 1 *

41. Daylight Saving Time Start Date

4 1 [M M W D] *
(DST Starting Month, Month, Week, Day)

The manner in which Daylight Saving Time (DST) is observed varies with location, therefore the DST adjustment is fully flexible to accommodate these regional differences. Function 41 allows the entry of a *DST Start Date* (month, day and week), and Function 42 allows the entry of a *DST End Date* (month, day and week). DST begins and ends at 2AM on the programmed date. Enter 4 1 0 0 0 * to disable DST. All locks leave the factory with DST enabled and pre-programmed to the following start and end dates (for the USA beginning 2007):

4

- **Default DST Start Date:** March, Week 2, Sunday ("Second Sunday in March")
- **Default DST End Date:** November, Week 1, Sunday ("First Sunday in November")

To program the DST start date using the keypad, press: 4 1 [M M W D] * where "M M W D" represents:

- **"M M" = Two digits of the month** (01 through 12 = January through December. Single digit months are entered with a preceding zero).
- **"W" = Single digit for "week of the month"** (valid entries are 1-5 where "1" is the first week, "2" is the second week, "3" is the third week, "4" is the fourth week and "5" is the last week of the month).
- **"D" = Day of the week** (valid entries are 1-7: 1 for Sunday, 2 for Monday, 3 for Tuesday, 4 for Wednesday, 5 for Thursday, 6 for Friday and 7 for Saturday).

Example: To set the default start date of "second Sunday in March", press:

4 1 [0 3 2 1] * (03 = "March", 2 = "2nd week", 1 = Sunday).

42. Daylight Saving Time End Date

4 2 [M M W D] *
(DST Ending Month, Month, Week, Day)

End date of Daylight Saving Time (month, week, day). Enter 4 2 0 0 0 * to disable DST. See Function 41 for full explanation.

4

Programming Functions (cont'd)

CLOCK ADJUST

Clock Adjust

Number of seconds to adjust (speed up/slow down) the clock each day must be between 0-55 seconds.

Note: Repeated use of these Functions are not "cumulative" (this means, for example, if the clock has *already* been set to speed up 10 seconds per day, and then is found to need an additional 10 seconds, then program 20 seconds using Function 43).

Example 1: Clock is losing 13 seconds every day, enter:

[4] [3] [1] [3] [*]

This example assumes that the Clock Adjust setting was at the factory default of zero.

Example 2: Clock is gaining 13 seconds every day, enter:

[4] [4] [1] [3] [*]

This example assumes that the Clock Adjust setting was at the factory default of zero.

Example 3: To set the clock adjust setting back to the factory default of zero, enter:

[4] [3] [*] or [4] [4] [*]

4

Clock Accuracy

The internal oscillator is factory calibrated to an accuracy of ± 5 minutes/year. Changes in ambient temperature may affect accuracy. If necessary, the accuracy of the internal clock may be adjusted by first updating the correct time via Function 39. After an interval of about 1 month, re-set the correct time via Function 39 and then view the Audit Log. Because the Audit Log displays both the "New Clock Time" and the "Old Clock Time", a daily accuracy (in seconds) can be determined by taking the difference in seconds between the "Old" and "New" times divided by the number of days between the two Function 39 entries. **Note:** Because the minimum available adjustment is 1 second per day, the inaccuracy of the clock must exceed about 6 minutes per year before adjustment is necessary.

43. Speed Up Clock

(This Function enabled through keypad only)

[4] [3]

[] [] [*]

(seconds)

44. Slow Down Clock

(This Function enabled through keypad only)

[4] [4]

[] [] [*]

(seconds)

PASSAGE MODE

Passage Mode Enable/Disable - Schedule will Override

- Function 45 allows passage through the door without the need for a credential. Re-Lock using Function 46.
- Programmed Schedules will override the state of the lock when Functions 45 and 46 are used. If it is required that programmed schedules do not override Passage Mode, enable/disable Passage Mode using Functions 48/49. **Note:** Because of the temporary nature of these features, Functions 45-47 can only be enabled using the keypad.

2

45. Enable Passage Mode

(This Function enabled through keypad only)

[4] [5] [*]

46. Disable Passage Mode

(This Function enabled through keypad only)

[4] [6] [*]

47. Timed Passage Mode

(This Function enabled through keypad only)

[4] [7] [] [] [*]

(XXX Hours)

- Hours must be between 1 - 999.
Function 47 allows passage through the door without the need for a credential for the programmed amount of time. For example, if you wish your office door lock to be unlocked (unlocked = "Passage Mode") for the next 3 hours, enter Program Mode and press: [4] [7] [0] [0] [3] [*]

2

Programming Functions (cont'd)

PERMANENT PASSAGE MODE

Passage Mode Enable/Disable - Schedule will not Override

- Function 48 allows passage through the door without the need for a credential. Re-Lock using Function 49.
- Programmed Schedules will not override the state of the lock using functions 48 and 49. If it is required that programmed schedules override Passage Mode, Enable/Disable Passage Mode using Functions 45/46. Use Function 50 to "undo" Functions 48 and/or 49, and therefore return the lock to all pre-existing scheduled functions. **Note:** Functions 48-50 can only be enabled using the keypad. **Warning:** Function 49 will inhibit all scheduled Passage Mode events.

2

48. Enable *Permanent Passage Mode*

(This Function enabled through keypad only)



49. Disable *Permanent Passage Mode*

(This Function enabled through keypad only)



50. Return Lock to Normal Passage Mode Schedule

(This Function enabled through keypad only)

(Locks will lock or unlock depending on the current schedule). Use Function 50 to "undo" Functions 48 and/or 49, and therefore return the lock to all pre-existing scheduled functions.



NOTE: See Scheduled functions 72 and 73 for Scheduled Passage Mode.

51. Passage Mode Configuration



(Mode)

- **Mode 1 (Normal):** Passage Mode must be enabled/disabled using Function 45 and 46. **Mode 1 (Normal) is the factory default.**
- **Mode 2:** Group 2 toggles Passage Mode.
- **Mode 3:** Group 2 enables, Group 3 disables Passage Mode. Disable Passage Mode has priority if User is a member of both Groups 2 and 3.

With **Mode 2**, each time any member of Group 2 enters their User Code, they will toggle Passage Mode. For example, if Passage Mode is enabled, and a Group 2 User enters their User Code, Passage Mode will be disabled. If a few seconds later they enter their User Code again, Passage Mode will be enabled. With **Mode 3**, Group 2 members will always enable Passage Mode, and Group 3 members will always disable Passage Mode. For example, if Passage Mode is already enabled, and a Group 2 User enters their User Code, the Passage Mode status will not be changed due to the Function 51 Mode 3 configuration. If Passage Mode is already enabled, and a Group 3 User enters their User Code, Passage Mode will become disabled.

4

PASS TIME

Pass Time

The Pass Time is the length of time the lock stays unlocked after a valid User Code is entered (or proximity credential presented). When the Pass Time expires, the lock will re-lock automatically. Use the functions below to change the Pass Time to 3, 10 or 15 seconds. **The Pass Time is defaulted to 3 seconds.**

4

52. Set Pass Time to 3 Sec.



53. Set Pass Time to 10 Sec.



54. Set Pass Time to 15 Sec.



Programming Functions (cont'd)

55 - 59. Reserved

LOCKOUT

60. Number of Attempts Before Lockout

- Number of attempts before lockout must be 1-9 attempts.
- The number of attempts is reduced by half every time the keypad is locked out without a successful code entry (default is 6 attempts).
- The attempt count is reset each time a valid code is entered.

4

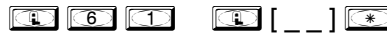


(Number of Attempts)

61. Set the Attempts Lockout Time

- Lockout Time must be 1-60 seconds.
- How long the keypad is locked-out after a series of unsuccessful attempts (default is 18 seconds).

4



(Lockout Time)

62-63. Reserved

REMOTE INPUT

Remote Input / Wireless Remote Release Pairing

- Wire a Normally Open Contact to Wires (White & White). Momentarily close switch to unlock door to allow person to pass through door.
 - Enter the functions below to Disable/Enable the Remote Input.
- NOTE:** The Remote Input is enabled as part of the default program.

2

64. Disable Remote Input

65. Enable Remote Input

Note: In addition to using a wired momentary switch, Function 65 is also used to pair a compatible Wireless Remote Release such as the RR-1BUTTON (see WI1999) or the portable pocket-size RR-4BKEYFOB (see WI2004). Function 64 is also used to remove all paired Wireless Remote Releases from the locking device. *Be aware of the potential loss of Wireless Remote Release pairing(s) that can result from using Function 64.* Refer to the above WIs for complete instructions.

65. Pair Wireless Remote Release

Slot Number
(1-10)

AMBUSH

66. Ambush Code



(Ambush Code)

- Ambush code must be 2 digits.
- An error will sound if the Ambush Code matches the 1st two digits of any User Code. See Function 67 for more information about the Ambush Function.

3

Programming Function 67 "System Features"

67. Program System Features



(Feature Number)

4

- Use Function 67 to program **one or more** system features. With **Relay Features** (for use with locks equipped with an internal relay), the relay will energize when the programmed event(s) listed below occurs. For example, program [L] [6] [7] [L] [3] [*] and when an attempted entry fails (such as a User who enters an incorrect User Code), the relay will energize for 2 seconds.
- Before you implement any of the following Function 67 system features, take note that some features are enabled ("ON") by default (for example, see feature #39). If you wish to turn a Function 67 system feature *off* that is either enabled "ON" by default or was enabled manually, we strongly recommend that you first be aware of all other Function 67 system features that may have already been programmed, because the ability to "toggle" a single Function 67 system feature "ON" or "OFF" is not supported. First, **all features must be turned "OFF"** by performing a special Function 67 command called **"Set All Function 67 Features to OFF"**, i.e. [L] [6] [7] [L] [0] [0] [0] [*], then re-enable all of your previously programmed system features.
- Be aware of another, similar, special Function called **"Privacy Time-Out and Default All Function 67 System Features"** (Function 68, i.e. [L] [6] [8] [L] [0] [0] [0] [*]). When a manually enabled Function 67 system feature is no longer desired, use this Function 68 command to **restore all Function 67 System Feature defaults**, resulting in some being set to "OFF", and some "ON" (depending upon their respective default states). **Note:** Since the use of the Function 67 **"Set All Function 67 Features to 'OFF'"** or the Function 68 **"Privacy Time-Out and Default All Function 67 System Features"** commands may require restoring previously implemented system features, it is recommend to use the **Programming Record Sheet** on page 37 in order to keep track of your settings.

Relay Features (only with locks equipped with an internal relay)

1. **Remote Input switch closed and Function 65 Remote Input enabled.** Because the Remote Input is enabled by factory default, the relay will energize when the Remote Input wires (two white wires) are shunted together.
2. **Remote Input switch closed and Function 64 Remote Input disabled.** If the Remote Input is disabled with Function 64, the relay will energize when the Remote Input wires (two white wires) are shunted together.
3. **Failed attempted entry.** (Default = ON) Relay energizes for 2 seconds when an attempted User Code entry (or proximity credential) fails.
4. **Disabled User or Group.** Relay energizes for 2 seconds when a disabled User or disabled Group member enters a User Code (or proximity credential).
5. **Follow Access Granted.** When a valid credential causes the lock to unlock, the relay energizes for 2 seconds.
6. **Group 1 User Code.** Relay energizes for 2 seconds when a scheduled Group 1 User Code (or proximity credential) is entered. See Function 90.
7. **Scheduled Lock Event.** Relay energizes for 2 seconds when lock is locked by a Schedule.
8. **Scheduled Unlock Event.** Relay energizes for 2 seconds when lock is unlocked by a Schedule.
9. **Lock Out.** Relay energizes for 2 seconds when a Lock Out occurs, i.e. number of attempts is exceeded (Function 60).
10. **Ambush.** Relay energizes for 2 seconds when Ambush code is entered followed by a valid User Code (or proximity credential). Ambush code must first be set using Function 66 on page 28.
11. **First Key Press.** Relay energizes for 2 seconds at the first key press of any sequence.
31. **Follow Access Granted—No Time Limit.*** When a valid credential is entered into the keypad and the lock unlocks, the relay energizes for the *same amount of time as the programmed Pass Time* (the Pass Time is the length of time the lock stays unlocked after a valid credential is entered; see functions 52-54). Use this feature for remote monitoring or other activation because this feature works independently of all other relay features. Programming this feature will supersede all other programmed relay features. Subsequent relay feature programming will not take effect while this feature is active. Before programming any other relay features, press [L] [6] [8] [L] [0] [0] [0] [*] to disable this feature.

Other System Features

24. **One Time Entry for Group 3 Users.** When programmed, a Group 3 User is allowed entry only once, then becomes disabled. **Note:** When the credential is entered for the first time and access is granted, the Event Log will display "Entry" followed by "User Disabled". If the User Code is entered a second time, access will be denied, and the Event Log will display "User Denied Access". **Note:** To assign the selected User Codes to Group 3, see Function 35.
25. **Disable Sounder.** All audible feedback is disabled (except when in Program Mode and when **Enable Sounder on Emergency** [Function 67, feature #43] is enabled). For a summary of lock activities that trigger the sounder, see **"LED and Sounder Indicators"** on page 10.
26. **5 sec. Delayed Entry.** Delays entry for all Basic Users for 5 seconds upon use of a valid credential.
27. **15 sec. Delayed Entry.** Delays entry for all Basic Users for 15 seconds upon use of a valid credential.
28. **45 sec. Delayed Entry.** Delays entry for all Basic Users for 45 seconds upon use of a valid credential. **Note:** See page 9 for definition of Basic Users. **Important:** Delayed Entry features #26-28 are not applicable to Emergency Users.

Remote Input Features

- For more information about using the Remote Input, see **Wiring, Remote Input** on page 14, and Function 65 on page 28.
29. **Toggle Passage Mode.** Remote Input toggles Passage Mode.
 30. **Forced Unlock Follows Remote Input.*** When Remote Input switch is closed, regardless of the current state of the lock, the lock unlocks for the duration of the Remote Input switch closure.
 32. **Remote Input Disables Unit.*** Regardless of the current state of the lock, that state will remain unchanged (and keypad will be disabled) for the duration of Remote Input switch closure.
 34. **Forced Lock Follows Remote Input.*** When Remote Input switch is closed, regardless of the current state of the lock, the lock will lock for the duration of the Remote Input switch closure.

Privacy/Residency Features

35. **Disable Keypad on Deadbolt** (PDL4500) or **Button Press** (PDL4100)
36. **Cancel Passage on Deadbolt** (PDL4500) or **Button Press** (PDL4100)
37. **Leave Unlocked on Exit** ("Passage Mode")

* Features 30, 32 and 34 should be used with external DC power unless feature is used for short a duration or infrequently. Sustained closure of remote input or relay will drain batteries. Scheduled events and their associated audit trail (log) entries will not occur during sustained closure of remote input.

(continued)

Programming Function 67 (cont'd) and 68

67. Program System Features (cont'd)



Emergency Command Features

Local Emergency Command features (#45 and #47, described below) are enabled ("ON") by default. **Global** Emergency Command features (#38, #46 and #48, described below) can be enabled as described below or by a subsequent DL-Windows download. **Note:** For information about "Global" vs. "Local" Emergency Commands, see page 11.

38. **Lock responds to "Global" Emergency Commands.** (Default = OFF, thus default = Lock responds to "Local" Emergency Commands only). Allows lock to respond to Emergency commands initiated by a Network server running DL-Windows or by another lock (as opposed to directly from a Wireless Remote Release).
39. **Users are Disabled During Lockdown.** (Default = ON). Basic Users (User Numbers 12 - 5000) are denied access (passage through the door) during an Emergency.
43. **Enable Sounder on Emergency.** (Default = OFF) Integral sounder beeps for 30 seconds while in Emergency.
44. **Enable Inside Emergency Indicator.** (Default = OFF; requires inside housing with light bar). Pulses inside red LED while in Emergency. **Note:** Enabling this option deletes all other relay outputs.
45. **Activate Local Emergency: Keypad initiates Local Emergency Commands.** (Default = ON). Initiating an Emergency command

directly from the lock's keypad places only that lock into an Emergency state; the Emergency command is not sent to other locks in the system.

46. **Activate Global Emergency: Keypad initiates Global Emergency Commands.** (Default = OFF). Initiating an Emergency command directly from the lock's keypad immediately sends the Emergency command to all other locks in the system, then places the local lock into an Emergency state.
47. **Activate Local Emergency: Keyfob initiates Local Emergency Commands.** (Default = ON). Initiating an Emergency command from a Wireless Remote Release (for example model RR-4BKEYFOB *Wireless Remote Release*) places only the paired lock into an Emergency state; the Emergency command is NOT sent to other locks in the system.
48. **Activate Global Emergency: Keyfob initiates Global Emergency.** (Default = OFF). Initiating an Emergency command from a Wireless Remote Release (for example model RR-4BKEYFOB *Wireless Remote Release*) immediately sends the Emergency command to all other locks in the system, then places the paired lock into an Emergency state.

Disable System Features

This special Function 67 command sets all system features to "OFF" (i.e. "disabled" or "cleared"), regardless of their individual default settings. This Function exists because some Function 67 features are "ON" by default and cannot be toggled "OFF" (for example, the relay feature #3, "Failed attempted entry"; other examples include the **Delayed Entry** options #26-28). Therefore, the only way to turn them "OFF" is to use this Function 67 command, i.e. . 4

67. Set All Function 67 Features to "OFF"



Function 68 includes three (3) functions: "Privacy Time-Out Duration", "Privacy Terminated on Exit Only" and "Clear (Default) All System Features", explained below: 4

Privacy Time-Out Duration

Enter a number between 001-250 for **Privacy Time-Out Duration**, in minutes (always enter 3 digits). This duration is the maximum time the Privacy Feature is enabled (default is 10 minutes). **Note:** Existing **Privacy Time-Out Duration** settings are NOT affected by subsequent programming of "000", used to set all Function 67 system features and options back to their **factory default** states (see "Default All System Features" below). (To load the "out of box" factory default settings, see "ERASE ALL PROGRAMMING" on page 14). **Note:** To maintain backwards compatibility with previous lock models, entering or entering will delete all functions added by Function 67. For unlimited **Privacy Time-Out Duration**, enter "251" (see "Privacy Terminated on Exit Only", below).

Privacy Terminated on Exit Only

Enter "251" () for unlimited "Privacy Terminated on Exit Only" duration, i.e. the **Privacy Time-Out Duration** ends when the inside handle is turned or if any admin code (or proximity credential) is entered).

Default All System Features

Enter () to set all Function 67 system features and options back to their **factory default** states. This includes features enabled from the factory, including (but not limited to) **Remote Input**, **Daylight Saving Time**, feature #39 "Users are Disabled During Lockdown", feature #45 "Activate Local Emergency: Keypad initiates Local Emergency Commands" and feature # 47 "Activate Local Emergency: Keyfob initiates Local Emergency Commands", among others.

68. Privacy Time-Out and Default All Function 67 System Features



* Features 30, 31, 32 and 34 should be used with external DC power unless feature is used for short a duration or infrequently. Sustained closure of remote input or relay will drain batteries. Scheduled events and their associated audit trail (log) entries will not occur during sustained closure of remote input.

Programming Functions (cont'd)

Enter Key

- When this Function is enabled, the User must press after any valid User Code entry. Therefore, this Function allows User Codes to be subsets of other User Codes. Examples:

can be a valid user code;

can be a valid user code within the same lock.

(Hold) for Master User Code to enter Program Mode.

4

69. Enable as Enter Key

70. Disable as Enter Key

Scheduled Passage and Group

Note: Clear All Schedule and Timeout Functions by entering Function 12. To set the time, see Function 39.

Use the functions below to enable Passage Mode and enable/disable Groups at the time programmed.

- For day enter: 1 for Sunday, 2 for Monday, 3 for Tuesday, 4 for Wednesday, 5 for Thursday, 6 for Friday, 7 for Saturday, 8 for Monday to Friday, 9 for Saturday and Sunday, and 0 for all days of week.

3

Passage Mode

72. Schedule Enable Passage Mode ("Unlock")

[_]
(Day)

[_ _ _ _]
(Time)

73. Schedule Disable Passage Mode ("Lock")

[_]
(Day)

[_ _ _ _]
(Time)

Groups

74. Schedule Enable Group 1

[_]
(Day)

[_ _ _ _]
(Time)

75. Schedule Enable Group 2

[_]
(Day)

[_ _ _ _]
(Time)

76. Schedule Enable Group 3

[_]
(Day)

[_ _ _ _]
(Time)

77. Schedule Enable Group 4

[_]
(Day)

[_ _ _ _]
(Time)

78. Schedule Enable All Groups

[_]
(Day)

[_ _ _ _]
(Time)

79. Schedule Disable Group 1

[_]
(Day)

[_ _ _ _]
(Time)

80. Schedule Disable Group 2

[_]
(Day)

[_ _ _ _]
(Time)

81. Schedule Disable Group 3

[_]
(Day)

[_ _ _ _]
(Time)

82. Schedule Disable Group 4

[_]
(Day)

[_ _ _ _]
(Time)

83. Schedule Disable All Groups

[_]
(Day)

[_ _ _ _]
(Time)

Programming Functions (cont'd)

QUICK SCHEDULES

Quick Schedules - Enable Group

For your convenience, your lock comes pre-programmed with Quick Schedules, which, when programmed, enable Groups for popular blocks of time. Group members will be enabled during the blocks of time defined below, but will still need to enter their User Codes into the keypad to unlock the lock.

3

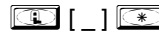
- Group number must be 1-4; enter the number of the Group that is to be enabled for the time specified by the Quick Schedules below.

Note: These Quick Schedules can **only** be programmed through the keypad (not through DL-Windows), and existing Quick Schedules **will be over-written** by schedules downloaded from DL-Windows. Therefore, after downloading any DL-Windows schedules, be sure to re-program your Quick Schedules into your Lock Program.

84. Business Quick Schedule

7AM-5PM, Monday - Friday

(This Function enabled through keypad only)

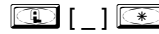
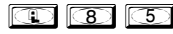


(Group)

85. Day Quick Schedule

7AM-5PM, All days, Sunday - Saturday

(This Function enabled through keypad only)

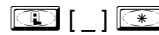
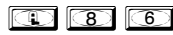


(Group)

86. Evening Quick Schedule

3PM-1AM, All days

(This Function enabled through keypad only)

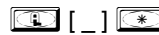
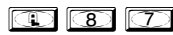


(Group)

87. Night Quick Schedule

11PM-9AM, All days

(This Function enabled through keypad only)



(Group)

SCHEDULES GROUP 1 ACTIVATED

Scheduled Passage Mode (Group 1 Activated)

Functions 88 and 89 allow you to set up a window of time where if any **Group 1** User Code is entered within this window, Passage Mode will be activated, allowing anyone to enter. **Note:** This Function may only be programmed using the lock keypad. For additional information, see "Group 1 Activated Features" on page 35.

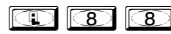
3

- For the **day** enter: 1 for Sunday, 2 for Monday, 3 for Tuesday, 4 for Wednesday, 5 for Thursday, 6 for Friday, 7 for Saturday, 8 for Monday to Friday, 9 for Saturday and Sunday, and 0 for all days of week.
- Enter time of day in 24 hour format (for example, for 2:15 PM, enter 14:15).

88. Passage Mode

(Open Time Window)

(This Function enabled through keypad only)



(Day)



(Time)

89. Passage Mode

(Close Time Window)

(This Function enabled through keypad only)



(Day)



(Time)


Programming Functions (cont'd)

SCHEDULES GROUP 1 ACTIVATED

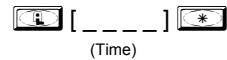
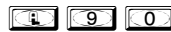
Scheduled Relay Activation (Group 1 Activated)

3

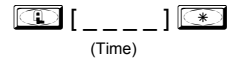
Functions 90 and 91 allow you to set up a window of time where if any **Group 1** User Code is entered within this window, the relay (where equipped) will be activated for 2 seconds. This relay can be used with a Control Panel that has a key switch disarm option. For additional information, see "Group 1 Activated Features" on page 35. This function only available for locks with an internal relay.

- Also program relay feature 6 using Function 67 (,).
- For **day** enter: 1 for Sunday, 2 for Monday, 3 for Tuesday, 4 for Wednesday, 5 for Thursday, 6 for Friday, 7 for Saturday, 8 for Monday to Friday, 9 for Saturday and Sunday, and 0 for all days of week.
- Enter time of day in 24 hour format (for example, for 2:15 PM, enter 14:15).

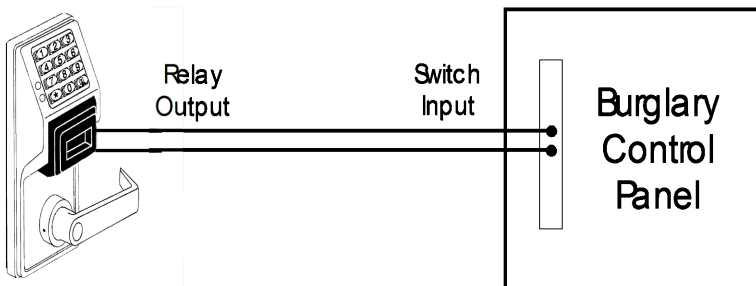
90. Relay Activation (Open Time Window)



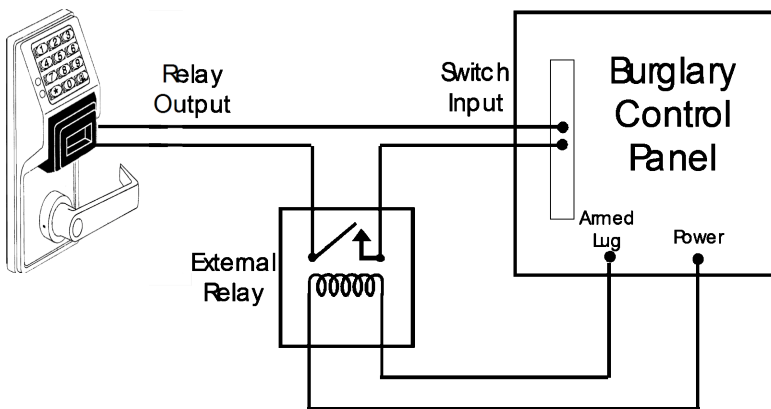
91. Relay Activation (Close Time Window)



To Disarm a Burglary Control Panel (for locks equipped with an internal relay)



Alarm Panel with Switched Input for Disarming



Alarm Panel with Switched Input for Toggled Arm/Disarm

NOTES

1. **Group 1 Disarms a Burglary Control Panel** will always disarm an alarm system. Arming should be performed by other means (such as Alarm Panel Keypad/Schedule).
2. Use a qualified electrical/alarm specialist to review your current alarm system and add additional components as needed (such as a relay, wire, resistors, connectors and/or diodes) and re-program the operation of your alarm system as needed.

Programming Functions (cont'd)

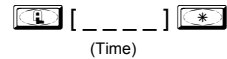
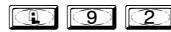
Scheduled Group 4 Enable (Group 1 Activated)

Functions 92 and 93 allow you to set up a window of time where if any **Group 1** User Code is entered within this window, Group 4 members will be enabled. (Group 4 members will still need to enter their User Codes to enter). For additional information, see "Group 1 Activated Features" on page 35.

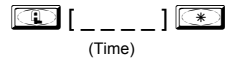
3

- For **day** enter: 1 for Sunday, 2 for Monday, 3 for Tuesday, 4 for Wednesday, 5 for Thursday, 6 for Friday, 7 for Saturday, 8 for Monday to Friday, 9 for Saturday and Sunday, and 0 for all days of week.
- Enter time of day in 24 hour format (for example, for 2:15 PM, enter 14:15).

92. Enable Group 4
(Open Time Window)
(This Function enabled through keypad only)

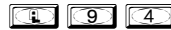


93. Enable Group 4
(Close Time Window)
(This Function enabled through keypad only)



Disable Radio Signal

94. Disable Radio
(This Function enabled through keypad only)



Disables the radio signal (RF) link inside the lock, rendering all wireless communication with the selected lock inoperative.

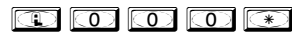
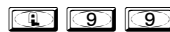
3

When using a lock without the DL-Windows RF link, it is highly recommended to enter this command to disable all radio access to the lock. If enrollment in a wireless system should be desired later, simply restart the lock either through the power up "ERASE ALL PROGRAMMING" procedure (see page 14) or through the use of the command, then enroll and reprogram the lock through the DL-Windows interface.

95 - 98. Reserved

CLEAR ALL PROGRAMMING

99. Clear All Lock Programming
(This Function enabled through keypad only)



Clears all programming, and returns lock to factory default settings. Audit Trail contents are maintained.

M

Groups and Scheduled Group 1 Examples

The following examples detail the more advanced features of the PDL series locks. Although all features and device functions can be programmed using the lock keypad, when programming becomes more complex you may find it easier to use DL-Windows software to program your Alarm Lock security lock. For more information, contact your Alarm Lock security professional.

Assign a User to Two Groups

The following example shows you how to add a User to multiple Groups. In the example below, User 101 is used (be aware that Users 101-150 are already members of Group 2 by default). We now wish to include User 101 in Group 3 (as well Group 2). Proceed as follows:

1. Enter Program Mode.
2. Using Function 2, create User 101 with a User Code of "789":
Press .
3. Using Function 35, make User 101 a member of Group 2 and 3:
Press .
4. Exit Program Mode.

Note: See step 3 above--although User 101 is by default a member of Group 2, you must include Group 2 when using Function 35 or the Group 2 association will be removed.

Group 1 Activated Features: Functions 88/89, 90/91 and 92/93

- **Function 88 and 89** allow for a window of time to be created where if any Group 1 User Code is entered within the programmed window, *Passage Mode* will be activated (the device physically unlocks, allowing passage through the door for all). If a Group 1 User does not enter their User Code during the specified window, Functions 88/89 remain inactive.
- **Function 90 and 91** allow for a window of time to be created where if any Group 1 User Code is entered within the programmed window, the internal relay (where equipped) will be activated for 2 seconds. This relay can be used with a burglary alarm control panel that has a "key switch disarm" option. See **To Disarm a Burglary Control Panel** on page 33. If a Group 1 User does not enter their User Code during the specified window, Functions 90/91 remain inactive.
- **Function 92 and 93** allow for a window of time to be created where if any Group 1 User Code is entered within the programmed window, the *User Codes in Group 4* will be enabled. If a Group 1 User does not enter their User Code during the specified window, Functions 92/93 remain inactive. Companies typically use this feature to allow Group 1 Managers the ability to enable all Group 4 staff members during a certain window of time.

The following examples illustrate how Functions 88-93 can be programmed into your PDL series lock using the keypad:

Functions 88/89: Use Function 88 to set an *Open Time Window* (during which the Group 1 User must enter their User Code), and then use Function 89 to set the time to close the Window. Re-lock the door at night manually (Function 46).

1. Enter Program Mode.
2. Using Function 2, create User 4 with a User Code of "456789":
Press .
3. Because User 4 does not have a default Group association, make User 4 a member of Group 1 using Function 35:
Press .
4. Use Function 88 and Function 89 (see page 32) to designate Passage Mode as being between the hours of 8:30 A.M. and 10 A.M. for all days of the week:
Function 88 (Open Window Time) = 8:30 A.M.: Press
Function 89 (Close Window Time) = 10:00 A.M.: Press
5. Exit Program Mode (hold down any key for 3 seconds).

The lock will now be put in Passage Mode (the PDLN4100 / PDLN4500 locking device is physically unlocked) if User 4 (or any Group 1 member) enters their User Code between 8:30 A.M. and 10 A.M. If a Group 1 User does not enter their User Code during the specified window, Functions 88/89 remain inactive.







































- The PDLN4100 / PDLN4500 will have to be manually locked each night by entering the following command using Function 46:

- The PDLN4100 / PDLN4500 can also be programmed to automatically lock (disable Passage Mode) each night at 5 P.M. by using Function 73:

- Remember to exit Program Mode when programming is complete.

Groups and Scheduled Group 1 Examples (cont'd.)










































Functions 90/91: Use Function 90 and 91 (see page 33) to create a window of time where if any Group 1 User Code is entered within the programmed window, the internal relay (where equipped) will be activated for 2 seconds. The relay can be configured to disarm a burglary control panel (see page 33).

1. Enter Program Mode.
2. Connect relay to a burglary control panel with a switch input for disarming.
3. Using Function 2, create User 4 with a User Code of "456789":
Press           .
4. Because User 4 does not have a default Group association, make User 4 a member of Group 1 using Function 35:
Press       .
5. Use Function 90 to set the time to open the window (8:30 A.M. all days of the week) allowing any Group 1 member to close the relay for 2 seconds. **Note:** Only 1 relay closure will occur even if another member of Group 1 enters their User Code. Use Function 91 to set the time to close the window (10 A.M. for all days of the week):
Function 90 (Open Window Time) = 8:30 A.M.: Press          
Function 91 (Close Window Time) = 10:00 A.M.: Press          
6. Exit Program Mode (hold down any key for 3 seconds).




































The relay will close, one time only, when a member of Group 1 enters their User Code between 8:30AM and 10:00AM. If a Group 1 User does not enter their User Code during the specified window, Functions 90/91 remain inactive.

- The alarm control panel will have to be armed at night by the User or by an automatic schedule function of the panel.

Functions 92/93: Use Function 92 and 93 (see page 34) to create a window of time where if any Group 1 User Code is entered within the programmed window, *Group 4 Users* will be enabled.

1. Enter Program Mode.
2. Using Function 2, create User 4 with a User Code of "456789":
Press           .
3. Because User 4 does not have a default Group association, make User 4 a member of Group 1 using Function 35:
Press       .
4. Using Function 17, disable Group 4. (Group 4 will need to be "disabled" before it can be "enabled" later).
Press   .
5. Use Function 92 to set the time to open the window (8:30 A.M. all days of the week) allowing any Group 1 member to enable Group 4. Use Function 93 to set the time to close the window (10:00 A.M. all days of the week).
Function 92 (Open Window Time) = 8:30 A.M.: Press          
Function 93 (Close Window Time) = 10:00 A.M.: Press          
6. Exit Program Mode (hold down any key for 3 seconds).

The lock will now enable Group 4 User Codes if User 4 (or any Group 1 member) enters their User Code between 8:30 A.M. and 10 A.M. If no Group 1 member arrives to enter their User Code between 8:30 A.M. and 10 A.M., Group 4 User Codes will not be enabled and will remain disabled all day.

- The device will have to be manually locked each night by entering the following command using Function 82:
   
- The device can also be programmed to automatically disable Group 4 members each night at 5 P.M. by using Function 82:
         
- Test the device by creating User 222 (with User Code 466466) and adding User 222 to Group 4:
            
       
- Remember to exit Program Mode when programming is complete.

Programming Record Sheet

Default Values are shown in parentheses.

Function Number(s)	Function Name	Programming																																																												
43/44	Clock Adjust	+/- <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> 0-55 (0) (0) Seconds																																																												
52/53/54	Pass Time	(3 sec) <input type="checkbox"/> 10 sec <input type="checkbox"/> 15 sec <input type="checkbox"/>																																																												
60	Set Lockout Attempts	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px;"></td></tr></table> 1-9 Attempts (6)																																																												
61	Set Lockout Time	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> 1-60 seconds (1) (8)																																																												
64/65	Remote Input Momentary	(Enable) <input type="checkbox"/> Disable <input type="checkbox"/>																																																												
66	Ambush Code	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> 00-99 (9) (9) Ambush Code																																																												
67	Add Function 67 System Features (Relay Features 1-11 and 31 are for use with locks equipped with an internal relay)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Check all that apply:</th> </tr> </thead> <tbody> <tr><td>1. Remote Input switch closed and Function 65 Remote Input enabled</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>2. Remote Input switch closed and Function 64 Remote Input disabled</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>3. Failed attempted entry</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>4. Disabled User or Group</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>5. Follow Access Granted</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>6. Group 1 User Code</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>7. Scheduled Lock Event</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>8. Scheduled Unlock Event</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>9. Lock Out</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>10. Ambush</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>11. First Key Press</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>31. Follow Access Granted--No Time Limit</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>24. One Time Entry for Group 3 Users</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>25. Disable Sounder</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>26. 5 sec. Delayed Entry</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>27. 15 sec. Delayed Entry</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>28. 45 sec. Delayed Entry</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>29. Toggle Passage Mode</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>30. Forced Unlock Follows Remote Input</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>32. Remote Input Disables Unit</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>34. Forced Lock Follows Remote Input</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>38. Lock responds to "Global" Emergency Commands</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>39. Users are Disabled During Lockdown</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>43. Enable Sounder on Emergency</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>44. Enable Inside Emergency Indicator</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>45. Activate Local Emergency: Keypad initiates Local Emergency Commands</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>46. Activate Global Emergency: Keypad initiates Global Emergency Commands</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>47. Activate Local Emergency: Keyfob initiates Local Emergency Commands</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>48. Activate Global Emergency: Keyfob initiates Global Emergency</td><td style="text-align: center;"><input type="checkbox"/></td></tr> </tbody> </table>	Check all that apply:		1. Remote Input switch closed and Function 65 Remote Input enabled	<input type="checkbox"/>	2. Remote Input switch closed and Function 64 Remote Input disabled	<input type="checkbox"/>	3. Failed attempted entry	<input type="checkbox"/>	4. Disabled User or Group	<input type="checkbox"/>	5. Follow Access Granted	<input type="checkbox"/>	6. Group 1 User Code	<input type="checkbox"/>	7. Scheduled Lock Event	<input type="checkbox"/>	8. Scheduled Unlock Event	<input type="checkbox"/>	9. Lock Out	<input type="checkbox"/>	10. Ambush	<input type="checkbox"/>	11. First Key Press	<input type="checkbox"/>	31. Follow Access Granted--No Time Limit	<input type="checkbox"/>	24. One Time Entry for Group 3 Users	<input type="checkbox"/>	25. Disable Sounder	<input type="checkbox"/>	26. 5 sec. Delayed Entry	<input type="checkbox"/>	27. 15 sec. Delayed Entry	<input type="checkbox"/>	28. 45 sec. Delayed Entry	<input type="checkbox"/>	29. Toggle Passage Mode	<input type="checkbox"/>	30. Forced Unlock Follows Remote Input	<input type="checkbox"/>	32. Remote Input Disables Unit	<input type="checkbox"/>	34. Forced Lock Follows Remote Input	<input type="checkbox"/>	38. Lock responds to "Global" Emergency Commands	<input type="checkbox"/>	39. Users are Disabled During Lockdown	<input type="checkbox"/>	43. Enable Sounder on Emergency	<input type="checkbox"/>	44. Enable Inside Emergency Indicator	<input type="checkbox"/>	45. Activate Local Emergency: Keypad initiates Local Emergency Commands	<input type="checkbox"/>	46. Activate Global Emergency: Keypad initiates Global Emergency Commands	<input type="checkbox"/>	47. Activate Local Emergency: Keyfob initiates Local Emergency Commands	<input type="checkbox"/>	48. Activate Global Emergency: Keyfob initiates Global Emergency	<input type="checkbox"/>
Check all that apply:																																																														
1. Remote Input switch closed and Function 65 Remote Input enabled	<input type="checkbox"/>																																																													
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24. One Time Entry for Group 3 Users	<input type="checkbox"/>																																																													
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43. Enable Sounder on Emergency	<input type="checkbox"/>																																																													
44. Enable Inside Emergency Indicator	<input type="checkbox"/>																																																													
45. Activate Local Emergency: Keypad initiates Local Emergency Commands	<input type="checkbox"/>																																																													
46. Activate Global Emergency: Keypad initiates Global Emergency Commands	<input type="checkbox"/>																																																													
47. Activate Local Emergency: Keyfob initiates Local Emergency Commands	<input type="checkbox"/>																																																													
48. Activate Global Emergency: Keyfob initiates Global Emergency	<input type="checkbox"/>																																																													
69/70	Enter Key	Enable <input type="checkbox"/> (Disable) <input type="checkbox"/>																																																												

User Code Record Sheet

User Number (1-5000)	User Code (3-6 digits)	Group Association				User Name
		1	2	3	4	

Note:
For a complete list of user codes, obtain a printout from the DL-WINDOWS software.

Schedule Record Sheet

Function Number	Day(s)	Time	Function Name
	<small>Up to 500 scheduled functions can be programmed. For Day Enter : 1 = Sunday, 2 = Monday, 3 = Tuesday, 4 = Wednesday 5 = Thursday, 6 = Friday, 7 = Saturday, 8 = Monday through Friday, 9 = Saturday and Sunday, 0 = All days of the week Enter time of day in 24-hour format (00:00- 23:59)</small>		
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Glossary

ACCESS = Entry into a restricted area.


AMBUSH = A special Code entered at the keypad when the User is *forced* to unlock a security device. The device unlocks but sends a silent alarm with no indication at the keypad. Can be used to trip a relay, to alert security, or trip a silent alarm on a burglary control panel.

AUDIT TRAIL = A date/time stamped log of previous lock events.

BURGLARY CONTROL PANEL = Provides local alarm and remote communication to request security for burglary/break-in. A PDLN4100 / PDLN4500 relay output used for Ambush can provide a silent alarm and call-for-help (for locks equipped with an internal relay).

CLOCK

- **REAL TIME CLOCK** = An accurate built-in clock that allows date/time stamping of events. The clock can be slowed or speeded up to fine tune long term accuracy to within three minutes per year (see Functions 43 and 44).
- **CLOCK SPEED** = The clock can be adjusted to allow faster/slower speeds and therefore increasing clock accuracy (see Functions 43 and 44).

CODE = Numeric sequence of numbers (such as: 1234) entered at the keypad. If *Star-Enter* key is required, must be followed by a  key.

- **AMBUSH CODE** = See Ambush.
- **BASIC USER CODE** = User Codes assigned to User Numbers 12+ (except Users 297-300). (Does not allow programming)
- **INSTALLER CODE** = User Codes assigned to User Numbers 2 and 3. (Allows all programming except Master functions).
- **INVALID CODE** = A numeric sequence of numbers entered via the keypad buttons that have not been programmed in the lock.
- **MANAGER CODE** = User Codes assigned to User Numbers 4 through 6. (Allows most of the programming functions).
- **MASTER CODE** = User Code assigned to User Number 1. Default (factory) Master Code is 123456. The User with the Master Code has complete control of the lock.
- **QUICK ENABLE USER 300 CODE** = Refers to the User Code entered by User 297 which (when entered at the keypad) enables the User Code assigned to User 300 for one time only.
- **SERVICE CODE** = User 300 User Code. Allows only one entry, then needs to be re-enabled by the User 297 User Code to regain access.

- **SUPERVISOR CODE** = User Codes assigned to Users 7, 8 and 9. Can only program day-to-day operation.

- **USER CODE** = Code used by Users. Code is 3 to 6 numeric digits long, allowing controlled entry.

- **VALID CODE** = A numeric sequence of numbers entered via the keypad buttons that have been programmed in the lock and identified by the lock as a User Code.

CREDENTIAL = A generic word used to indicate User Code, a proximity card, proximity keyfob (such as a ProxKey® keyfob), a hardwired Remote Input momentary contact, a Wireless Remote Release, or any future device or design that allows the lock to unlock, allowing passage through the door.

DATE = Month, Day and Year entered as MMDDYY.

DAY OF WEEK = Sunday through Saturday (where 1 = Sunday and 7 = Saturday).

DEFAULT = Default settings are the original settings that were set at the factory (it is the lock's original factory condition when the lock was first taken out of its box). The default settings are permanently encoded within the lock's fixed memory, and when the lock is first started, or when power is removed and re-applied (see **Wiring and Power-Up**, page 14), the original factory default settings are re-loaded and take effect.

DISABLE = Turn off.

DOWNLOAD = Send data to the PDLN4100 / PDLN4500.

EMERGENCY COMMANDS = For use with the Trilogy Network™ wireless network only. Wireless commands can be sent to all wireless locking devices in an Account during a crisis or other urgent situation. "Global Lock Down" locks all doors in the Account; "Global Passage" unlocks all doors in the Account; Return all devices in the Account to "normal" discontinues all emergency commands, reverting to "normal" non-emergency operation. **Note:** DL-Windows does not need to be running to allow these "Emergency" commands to be initiated; any wireless keypad can be used to disseminate these commands throughout the wireless system.

EMERGENCY GROUP = Upon the addition of each Gateway (see page 4) into an Account, the Gateway is automatically placed into an Emergency Group ("GROUP A" by default). This is done so that upon the initiation of an Emergency Command, ALL Gateways in the Emergency Group (and their assigned locks) will respond to Emergency Commands issued from DL-Windows. In addition, the automatic placement of a new Gateway into an Emergency Group allows for keypad-initiated Emergency Commands to lock down an entire system from a single wireless lock. See OI383 for more information.

Glossary (cont'd)

ENABLE = Turn on.

EVENTS = Recorded lock activity.



FUNCTION (also called **Programming Functions**) = are the numbers used to program lock features (enabling/disabling Users, User Groups, Passage Mode, Schedules, etc.).

GATEWAY GROUP = See...**EMERGENCY GROUP GROUP**

- **USER GROUP** = Defining a User to specific Groups, allows User entry when the Group is allowed entry.
- **GROUP 1 DISARMS BURGLAR CONTROL** = A Group 1 USER CODE entry can disarm an alarm panel during a predefined schedule. Should the Group 1 enter the lock outside of the scheduled time, the alarm will not disarm. The alarm panel must be armed through other means (such as an alarm control panel keypad). The burglary alarm control panel must be programmed to disarm from an armed state only and the zone input must be programmed for input disarming.
- **GROUP 1 ENABLES GROUP 4 USERS** = A Group 1 USER CODE entry during a predefined schedule will allow access to Group 4 Users.
- **GROUP 1 PUTS UNIT IN PASSAGE** = A Group 1 USER CODE entry during a pre-defined schedule will unlock unit.

GUARD TOUR = A *Guard Tour Code* is used to log the movement of a security guard as he or she makes rounds from one assigned guard tour station to the next. See "**User 299: Guard Tour Code**" on page 8 for more information.

INSTALLER = See... CODE, INSTALLER CODE.

KEYPAD = 10-numeric keys,  and special  key.

- **KEYPAD LOCKOUT** = Keypad is programmed to lockout Users, for a specified period of time, when a specified number of invalid User Codes are entered.
- **KEYPAD PROGRAMMING** = Ability to program the lock through the keypad.

KEYPRESS = Pressing a button on the Lock's Keypad.

LEVEL ABILITY = Predefined User types (such as Master, Installer, Manager and Supervisor) have specific abilities to program and /or control the lock.

LOCKOUT ATTEMPTS = A specified number of invalid User Code entries (1-9), that will disable the keypad for a predefined period of time (1-60 seconds).

LOCKOUT TIME = A predefined time (1-60) seconds that the lock will stop accepting User Codes, after a

specified number of invalid User Code entries (1-9).

LOG = See... AUDIT TRAIL.


MANAGER = See... CODE, MANAGER CODE.

MASTER = See... CODE, MASTER CODE.

PAIR = To connect a button (located on the RR-1BUTTON Wireless Remote Release Button or the RR-4BKEYFOB Wireless Remote Release Keyfob) with a PDLN4100 / PDLN4500 series locking device for the purpose of locking or unlocking the lock, or initiating Emergency Commands. Each button on the Wireless Remote Release can be "paired" (connected) with one locking device (four buttons on the RR-4BKEYFOB can be paired with four separate locking devices).

PASS TIME = The length of time the lock stays unlocked after a valid credential is accepted. When the Pass Time expires, the lock re-locks automatically.

PASSAGE = Allow anyone to pass through the door without USER CODES (door is unlocked).

PROGRAM MODE = A mode allowing program / data to be entered through the keypad. Only specific Users can program a lock manually, by entering their USER CODE, followed by the  key. To exit program mode, hold any key until repeated beeps are heard.

PROGRAMMABLE RELAY FUNCTIONS = The relay (where equipped) can be programmed for one or more functions.

RELAY = Switched output allowing remote control of other devices (where equipped). For an explanation of all relay features, see Function 67 on page 29.

REMOTE INPUT = Entry into a restricted area, by pressing a button connected to the REMOTE INPUT WIRES (white and white) by someone on the other side of the door.

SCHEDULE = A programmed operation (enable/disable, lock/unlock, etc.) on a specific day (Sunday through Saturday) and time.

SCHEDULES, QUICK = Any one of four most common types of schedules can be programmed.

TIME = Hours and Minutes in the HHMM format.

TIME/DATE STAMP = A recorded date and time that an event occurred.

TIMEOUT = Immediate operation for a specified number of hours.

UPLOAD = Receive data from the lock.

USER = A person who has been provided with a USER CODE for access through the door.

USER LOCKOUT, TOTAL = All Users (except for Master Code) have been locked out.

NOTES

NOTES

ALARM LOCK LIMITED WARRANTY

ALARM LOCK SYSTEMS, INC. (ALARM LOCK) warrants its products to be free from manufacturing defects in materials and workmanship for twenty four 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.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges, environmental wear and tear, normal maintenance expenses, or shipping and freight expenses required to return products to ALARM LOCK. Additionally, this warranty shall not cover scratches, abrasions or deterioration due to the use of paints, solvents or other chemicals.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. ADDITIONALLY, THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF ALARM LOCK.

Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period.

IN NO CASE SHALL ALARM LOCK BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

In case of defect, contact the security professional who installed and maintains your security system. In order to exercise the warranty, the product must be returned by the security professional, shipping costs prepaid and insured to ALARM LOCK. After repair or replacement, ALARM LOCK assumes the cost of returning products under warranty. ALARM LOCK shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. ALARM LOCK will not be responsible for any dismantling, reassembly or reinstallation charges, environmental wear and tear, normal maintenance expenses, or shipping and freight expenses required to return products to ALARM LOCK. Additionally, this warranty shall not cover scratches, abrasions or deterioration due to the use of paints, solvents or other chemicals.

This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly cancelled. ALARM LOCK neither assumes, nor authorizes any other person purporting to act on its behalf to modify, to change, or to assume for it, any other warranty or liability concerning its products.

In no event shall ALARM LOCK be liable for an amount in excess of ALARM LOCK's original selling price of the product, for any loss or damage, whether direct, indirect, incidental, consequential, or otherwise arising out of any failure of the product. Seller's warranty, as hereinabove set forth, shall not be enlarged, diminished or affected by and no obligation or liability shall arise or grow out of Seller's rendering of technical advice or service in connection with Buyer's order of the goods furnished hereunder.

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

Warning: Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. ALARM LOCK does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

ALARM LOCK is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to ALARM LOCK's original selling price of the product regardless of the cause of such loss or damage.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.