

PXL-250: Firmware v6.3.42

1.0 PXL-250 Firmware v6.3.42

The PXL-250 Firmware v6.3.42 release adds one new feature – Elevator Control – and makes 10 program improvements.

1. The LCD-1 display is now hot swappable.
2. Removed unused tamper test from system diagnostics.
3. Controller remembers unlock state on recovery from power loss.
4. Reset the Door Held Open timer upon every consecutive valid card presentation.
5. Door Held Open alarm is now sounded at both readers on a controller.
6. Improved the controller logic for RTE-Do Not Unlock.
7. Always and Never time zones are permanently programmed into the controller.
8. Changed the timing of the lock door command to accommodate doors with bond sensors.
9. Changed the annunciation of Door Forced and Door Held Open alarms.
10. Wiegand Receiver boards are reset when Doors32 issues a Status Request.

2.0 Application

Firmware release 6.3.42 (PROM v6.3.42 and MIOP v1.08) can only be used in PXL-250 controllers. The leading '6' digit in the release number indicates that this release is for the PXL-250. To upgrade a PXL-100 controller, the release number must have a leading digit of '5.'

3.0 Compatibility

3.1 General Compatibility

- PROM 6.3.42 and MIOP v1.08 are interconnected and both must be installed on a controller for proper operation.
- Firmware release 6.3.42 and Doors32 v3.42 must be used together to enable all the new features offered by these two releases.
- Doors32 only supports PXL-250 controllers with v6.3.20 or greater firmware; PXL-250 controllers with 6.2.xx firmware and PXL-100 controllers are not compatible with Doors32.
- Access control networks with controllers using firmware releases 6.2.11, 6.2.12, and 6.2.15, can work with controllers using firmware release 6.3.20, 6.3.22, 6.3.23, and 6.3.42 provided the controllers with 6.3.20, 6.3.22, 6.3.23, or 6.3.42 firmware are slave units.

3.2 Elevator Control Compatibility

To use the elevator control capabilities of the firmware, all controllers must use firmware release 6.3.42 (PROM v6.3.42 and MIOP v1.08) and must use Doors32 software release 3.42. For information regarding the installation and operation of elevator control, please refer to the [Doors32 Elevator Control Application Note](#) (Keri Systems P/N 01878-001).



PXL-250: Firmware v6.3.42

4.0 Improvements

- The optional Alpha-Numeric display (Keri Systems P/N LCD-1) that may be attached to PXL-250 controllers is now "hot-swappable." This allows an LCD-1 to be easily shared by a number of controllers as a controller does not have to be powered off to install or remove an LCD-1. When an LCD-1 is installed on a controller, double-clicking S1 on the controller resets the LCD display, making its information visible. Single-clicking S1 scrolls through a variety of information screens for that controller.
- The Tamper Input test in the system diagnostics has been removed. As the tamper sensor has not been implemented in the PXL-250 controller, this test was deemed unnecessary at this time.
- If a single-door controller is in either the Auto-Unlock or Global-Unlock state and controller power is lost, the Unlock state is remembered and restored (with green LEDs displayed by the controller's readers) when power is restored to the controller. This ensures that if a controller's power is cycled, upon restoration of power, a door that should be unlocked is unlocked.
- If a number of people are presenting their cards and accessing a door consecutively or if consecutive RTE commands are issued, each valid card presentation and valid RTE command resets the Door Held Open alarm timer. This ensures that the full held open time is allowed to each person using the door, and that a Door Held Open alarm is only sounded when a door has truly been held open too long.
- If a controller has been configured to use two readers on a single door (controlling both entrance and exit), a Door Held Open alarm is sounded by the beeper at both readers (and not just the reader/door access that triggered the Held Open alarm). This provides complete annunciation of a Door Held Open condition for users on both sides of the door.
- If a controller/door has been configured for RTE-Do Not Unlock, the controller logic has been changed to allow the door to be unlocked if a valid card is presented to the reader. Previously, an assumption was made that an RTE-Do Not Unlock controlled door would be manually unlocked to allow exit. By changing the controller logic, greater ease and flexibility is added to controlling RTE requests.
- The Never and Always time zones are now permanently programmed into all controllers, instead of being downloaded to the controllers by the Doors32 program. This accommodates inexperienced Doors32 users who might invoke a Smart Update instead of a Full Update when configuring an access control network for the first time. Previously, as a Smart Update only sends out information that has changed, and since the Never and Always time zones are fixed entities, a Smart Update would not download the Never and Always time zones. The inclusion of the Never and Always time zones into the firmware allows a first-time network Smart Update to be able to download all information necessary for proper access control network operation.

PXL-250: Firmware v6.3.42

Release Notes

PXL-250

- Certain types of magnetic locks have bond sensors. These are sensors within the lock that determine when power is applied to the lock. To accommodate magnetic door locks with bond sensors, the Doors32 program has changed the timing of the lock door command. An unlocked door now will re-lock when the door switch shows the door has been opened and then closed, rather than just when the door switch shows the door has been opened. This allows the Doors32 program to ignore any input the bond sensor might have, allowing users the full Door Unlock time to open a door following valid card presentation.
- The annunciation of Door Forced and Door Held Open alarms has been changed. Previously, if Door Forced and Door Held Open alarm recording has been disabled (under Setup > System > Doors), the reader would still annunciate (through the beeper and LED) if either of these alarm conditions occurred. Now, when these alarms are disabled, the reader will not annunciate if either of these alarm conditions occur.
- To ensure that Wiegand Receiver boards correctly identify themselves under all conditions, Wiegand Receiver boards will reset themselves when Doors32 issues a Status Request. This works with Wiegand Receiver boards with firmware revision 3.0 or higher (this has always worked for Proximity Receiver boards).



1530 Old Oakland Road, Suite 100
San Jose, CA 95112 USA
(800) 260-5265 (408) 451-2520 FAX (408) 441-0309
Web: <http://www.kerisys.com> E-mail: sales@kerisys.com

01853-002 Rev. B

PXL-250: Firmware v6.3.42

Release Notes

PXL-250

This page is intentionally left blank.



1530 Old Oakland Road, Suite 100
San Jose, CA 95112 USA
(800) 260-5265 (408) 451-2520 FAX (408) 441-0309
Web: <http://www.kerisys.com> E-mail: sales@kerisys.com

01853-002 Rev. B

Page 4 of 4