

# PXL-250: Firmware v6.3.43

## 1.0 PXL-250 Firmware v6.3.43

The PXL-250 Firmware v6.3.43 is the initial release of PXL-250 firmware supporting surface-mount printed circuit boards. Three firmware improvements have also been made.

1. The handling of a card read during the granting of timed amnesty (used in certain anti-passback applications) has been improved to ensure proper card reads during the amnesty granting process.
2. The logic handling Door Forced and Door Held Open alarms has been changed such that if the Door Forced alarm is disabled for a door, the Door Held Open alarm is still annunciated.
3. If the supply voltage for a PXL-250 controller drops below 11.1 VDC or rises above 14.4 VDC, the supply voltage is displayed on the controller's address LEDs. This helps to troubleshoot incorrect voltage conditions at a controller.

## 2.0 Application

Firmware release 6.3.43 (PROM v6.3.43 and MIOP v1.09) 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.

## 3.0 Compatibility

### 3.1 General Compatibility

- PROM 6.3.43 and MIOP v1.09 are interconnected and both must be installed on a controller for proper operation.
- Firmware release 6.3.43 and Doors32 v3.42 must be used together to enable all the new features offered by this firmware release.
- 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, 6.3.42, and 6.3.43 provided the controllers with 6.3.20, 6.3.22, 6.3.23, 6.3.42, or 6.3.43 firmware are slave units.
- PXL-250W (Wiegand) controllers must have Wiegand Receiver firmware revision 3.2 or greater.



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## 4.0 Improvements

- The processing of a timed amnesty command by the controller firmware has been changed to accommodate the handling of a card read in the event the card is presented to the reader during the granting of timed amnesty. Timed amnesty is an anti-passback (APB) option, allowing the periodic, automatic granting of amnesty to all cardholders. If a card was presented to a reader at a certain point during timed amnesty processing, the firmware may be too busy granting amnesty to recognize the card read. This firmware change ensures that cards presented at any time during the amnesty granting process are properly recognized.
- The firmware logic handling Door Forced and Door Held Open alarms has been changed such that if the Door Forced alarm is disabled for a door, the Door Held Open alarm is still annunciated. Customers have identified situations where they do not need annunciation for a Door Forced alarm, but still require annunciation of a Door Held Open alarm. Previous firmware revisions bundled the two alarm types together. They are now separated, allowing Door Forced annunciation to be disabled, but ensuring that Door Held Open annunciation is always active. This provides users with greater flexibility in handling door event annunciation.
- Code has been added to the firmware to periodically sample the voltage being supplied to a controller. If the supply voltage for a controller drops below 11.1 VDC or raises above 14.4 VDC, the controller's operation becomes unreliable. Now, if the supply voltage crosses either of these two extremes, the voltage is displayed on the controller's address LEDs, providing visual evidence of an out-of-specification voltage condition. This helps technicians troubleshoot incorrect voltage conditions at a controller, improving the reliability of controller operation.