PXL-250: Firmware v6.3.47

Release Notes

PXL-250

1.0 PXL-250 Firmware v6.3.47

The PXL-250 Firmware v6.3.47 makes five firmware improvements.

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. An error in I/O link/time zone management has been corrected, allowing every I/O link to be assigned a unique time zone.
4. Holiday time zone management has been improved to provide tighter control over the application of holiday time zones.
5. 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. This applies to surface mount technology only.

2.0 Application

Firmware release 6.3.47 (PROM v6.3.47 and MIOP v1.10) 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 6.3.47 and MIOP v1.09 or v1.10 are interconnected and both must be installed on a controller for proper operation.
- Firmware release 6.3.47 and Doors32 v3.42 (or higher) 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.
- PXL-250W (Wiegand) controllers must have Wiegand Receiver firmware revision 3.0 (Thru-Hole) or 3.2 (Surface Mount) or greater.

NOTE: For additional compatibility information, see the Compatibility Guide - Series 3 (P/N 01876-001).

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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.

- Firmware revision 6.3.42 changed the assignment of time zones to I/O links, taking the time zone assigned to the first I/O link and applying it to all subsequent I/O links. This is not how the firmware was intended to operate. A correction was made, allowing each I/O link to be assigned its own time zone, restoring the flexibility of I/O link management.

- A condition existed in previous firmware revisions such that the start and stop times set in the day of the week fields could override the start and stop times set in the holiday fields. The result could be that on holidays, a door could be unlocked earlier than expected and stay unlocked longer than expected. Changes have been made to apply only the start and stop times set in the holiday fields with just one exception – if the start and stop times set in the holiday field are set to UNUSED, then the start and stop times set in the day of the week field are applied.

NOTE: The time zone feature is designed to accept a holiday date only once within the three possible holiday time zones. If a holiday date is entered in more than one holiday time zone, the information in the lowest numbered holiday time zone is applied and the information in all other holiday time zones is ignored.

- In surface mount technology only, 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.