7800 Series Graphic Touchscreen Keypad

INSTALLATION AND PROGRAMMING GUIDE
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ABOUT THE KEYPAD

7800 Series Graphic Touchscreen Keypads offer flexible features and functionality. Each keypad provides optional panic keys, an AC Power/Armed LED, an internal speaker, a simple terminal connection to a 4-wire keypad bus, and optional backboxes for conduit or wall-mount applications. Each model provides its own distinct functionality.

**7872**
Provides a built-in proximity card reader designed to read proximity credentials.
Provides four fully-programmable Class B, Style A, supervised, power limited protection zones that can be programmed for a variety of burglary and access control applications.

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Provides four fully-programmable Class B, Style A, supervised, power limited protection zones that can be programmed for a variety of burglary and access control applications.
Provides a door strike relay and allows Wiegand input from external card readers.

**7873H**
Provides the same functionality as the 7873 keypad.
Allows the keypad digits to automatically randomize on user code entry.
Features an integrated privacy filter on the keypad screen.
KEYPAD FEATURES

Figure 1: Keypad Features

- Armed/Power LEDs & Proximity Reader
- Dealer Logo
- Carousel Menu
- Interactive Arming/Disarming Shield
- Local Weather
- microSD Card Slot
- Press the Navigation Arrows or touch and drag the menu to scroll

Press the Navigation Arrows or touch and drag the menu to scroll.
**Programmable Carousel Menu**

The carousel menu allows the user to pick and choose what displays within the carousel menu on the home screen. Press Options in the carousel menu. From here, adjust the keypad screen brightness, keypad tone, and keypad volume. Press a box under **Display In Menu** to select that option to display in the carousel menu. Press that box again to deselect that option. See Figure 2.

A **Brightness** setting of 1 allows the keypad display to turn off automatically after a brief period of inactivity. The Arm/Disarm LED remains lit. A **Brightness** setting of 0 allows both the keypad display and LED to turn off automatically after a period of inactivity. To wake the display, tap any part of the touchscreen surface.
ENTER CHARACTERS

Number Pad
1. Choose a character from Table 1.
2. Identify the Number the character correlates with and press that number on the number pad.
3. Identify the Select Area for the character and press that select area on the keypad. Press that select area again for the lowercase letter. See Figure 3.
4. When the desired character displays on the keypad, return to Step 1 to enter another character or press CMD if finished.

Standard Keyboard
- Press ABC to enter uppercase letters.
- Press abc to enter lowercase letters.
- Press !@# to enter special characters.
- Press 123 to enter numbers and to return to the number pad. See Figure 4.

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>SELECT AREA</th>
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<tbody>
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<td>1</td>
<td>A</td>
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<td>2</td>
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<td>#</td>
</tr>
<tr>
<td>5</td>
<td>&gt;</td>
</tr>
</tbody>
</table>

Table 1: Characters
Figure 3: Number Pad

Figure 4: Standard Keyboard
INSTALL THE KEYPAD

1. **Remove the Cover**

   The keypad housing is made up of two parts: the cover, which contains the circuit board and components, and the base.

   To separate the keypad cover from the base, insert a slotted-tip screwdriver into one of the slots on the bottom of the keypad and lift the screwdriver upward. Repeat with the other slot. Separate the cover from the base and set the cover containing the keypad components aside. See Figure 5.

   ![Figure 5: Separate the Keypad Housing](image)
Wire the Keypad

Each keypad model has specific wiring assignments. All zones are supervised and suitable for residential burglary or fire applications. The maximum zone line impedance is 100 Ohms. The ground fault is detected at 1420 Ohms or less. See Wiring Specifications for additional wiring information.

Model 7872
Connect the supplied harness to the header on the keypad. Connect the 4-wires on the opposite end of the harness to the panel terminals for keypad bus connection. Connect the red wire to panel terminal 7, the white or yellow wire to panel terminal 8, the green wire to panel terminal 9, and the black wire to panel terminal 10.

Models 7873/7873H
Connect the supplied harness to the header on the keypad. Connect the 4-wires on the opposite end of the harness to the panel terminals for keypad bus connection. Connect the red wire to panel terminal 7, connect the white or yellow wire to panel terminal 8, connect green wire to panel terminal 9, and connect black wire to panel terminal 10. Use a 5-wire harness for external card reader connection. Use 1k Ohm EOL resistors DMP Model 311 on keypad zones 1-4. The following are optional 7873 zone input connections for access control:

• Zone 1: Brown White/White Brown
• Zone 2: Red White/White Red (Zone 2 Bypass)
• Zone 3: Orange White/White Orange (REX)
• Zone 4: Yellow White/White Yellow
Figure 6: Mounting Holes and Wiring
3 Wire for Access Control

Internal Access Control Reader
7873/7873H and 7872 keypads provide a built-in proximity card reader that is compatible with most standard 125 kHz proximity credentials. An external 13.56 MHz proximity reader can be connected and will be compatible with 13.56 MHz proximity credentials. For a list of publicly supported card formats, see Public Card Formats.

Note: Some proximity credentials are not compatible with DMP proximity keypads. Thoroughly test the intended proximity credentials with the application before installation. DMP does not guarantee compatibility with credentials not purchased from DMP.

External Access Control Reader
To accept Wiegand data input from other external card readers, connect a 12 VDC external card reader to a 7873/7873H keypad. Connect the red and black power wires from the card reader to the power wires from the panel. These connect in parallel with the keypad power wires. Connect the Data 1 (reader) wire to the white wire on the 5-wire keypad cable. Connect the Data 0 (reader) wire to the green/white wire on the 5-wire keypad cable. See Figure 7.
Green/White* - Connect Reader Data 0
White - Connect Reader Data 1
Orange - Door Strike Normally Open
Gray - Door Strike Common
Violet - Door Strike Normally Closed

1k Ω EOL - Yellow & White
            Zone 4
1k Ω EOL - Orange & White
            Zone 3 (REX)
1k Ω EOL - Red & White
            Zone 2
1k Ω EOL - Brown & White
            Zone 1 (7/0 Panic)

Black - Ground
Green - Receive Data
Yellow - Send Data
Red - Keypad Power

To Panel Keypad Bus

*Only the green/white, white, black, and red wires connect to the external card reader.

Figure 7: Access Control Wiring
4 **Wire the Electronic Lock**

7873/7873H keypads provide a Form C (SPDT) relay for controlling locks and other electronically-controlled barriers. The Form C relay draws up to 15 mA of current and the contacts are rated for 1 Amp at 30 VDC maximum, resistive. The wires marked NO C NC allow you to connect the device wiring to the relay for module control. Use an additional power supply to power magnetic locks and door strikes. See Figure 8 and Figure 9.

5 **Wire the 333 Suppressor**

Use the included 333 suppressor with the keypad to suppress any surges caused by energizing a magnetic lock or door strike. Install the 333 across the keypad C (common) and NO (normally open) or NC (normally closed) wires.

If the device being controlled by the relay is connected to the NO and C wires, install the suppressor on the NO and C wires. Conversely, if the device is connected to the NC and C wires, install the 333 Suppressor on NC and C wires. See Figure 8 and Figure 9.
Figure 8: Typical Magnetic Lock Wiring

Figure 9: Typical Door Strike Wiring
MOUNT THE KEYPAD

All DMP keypad housings are designed to install on any 4” square box, 3-gang switch box, compatible backboxes, or directly on a flat surface. For more information about mounting accessories, refer to “Ordering Information”.

1. Ensure all cables are routed through the keypad base cut outs before fully mounting the base to the wall. See Figure 10.
2. Use #6 screws to secure the keypad base to the surface.
3. Place the keypad cover back onto the base and snap into place.
Figure 10: Mounting Hole Locations
PROGRAM THE PANEL

To access the Programmer menu, reset the panel, press Keypad in the carousel menu, enter 6653 (PROG), then press CMD.

After completing each of the following steps, press CMD to advance to the next option. Refer to the panel programming guide as needed.

DEVICE SETUP

Advance to Device Setup, then press a select area to enter the setup menu.

Device Number
Set the keypad address from 1-8 for XT30, XT50, and XR150 Series panels, or 1-16 for XR550 Series panels.

Device Name
Enter the a name for the device.
Device Type
For use as a standard keypad, select **KPD**. For use as an access control keypad, press any select area, then select **DOOR**.

Communication Type
Ensure the **COMM TYPE** is set to **KPD** (Keypad Bus).

Configure additional options as needed. To configure custom card options for the keypad, do not program **CARD OPTIONS** in Device Setup.
PROGRAM THE KEYPAD

Refer to the appropriate panel programming guide as needed. Keep in mind that operation for some programming options is restricted to the appropriate model. To access the Keypad Options menu, press Options in the carousel menu. Press the Installer Options wrench icon, enter 3577 (INST), then press CMD.

**KEYPAD OPTIONS**

To program keypad options, press the select area under **KPD OPT**. When finished programming, press **STOP** to save all programming.

**Current Keypad Address**

Set the current keypad address from 1 to 8 for XT30/XT50 or XR150 Series panels, or 1 to 16 for XR550 Series panels. The default address is set at **01**. To change the current address, press any select area to clear the keypad display, enter the new address, and press **CMD**. It’s not necessary to enter a leading zero for addresses 1 to 9.
Keypad Mode
Keypads with programmed zones must be supervised and cannot share an address with other keypads. Unsupervised keypads can operate together sharing the same address and cannot be used when Device Fail Output has a programmed value other than zero. To select a keypad mode, press the select area for **SUP** or **UNSUP**. An asterisk appears next to the selected option. Press again to deselect that option.

Default Keypad Message
Enter a custom message of up to sixteen characters to appear at the top of the keypad display. Press any select area, enter a new message, and press **CMD**. See Enter Characters.

Arm Panic Keys
Use this option to enable or disable the panic keys. Press the icon name: **PN** (panic), **EM** (emergency), and **FI** (fire). Once the panic option is enabled, an asterisk displays next to the selected options.
**Activate Zone 2 Bypass**

Select **YES** to activate the zone 2 bypass operation. Selecting **NO** allows standard zone operation on zone 2. The default is **NO**.

If the door being released by the keypad is protected (contact installed), a programmable bypass entry/exit timer can be provided by connecting its contact wiring to the keypad zone 2. When the onboard Form C relay activates and the user opens the door connected to zone 2, the zone is delayed for the number of seconds programmed in **ZONE 2 BYPASS TIME** allowing the user to enter/exit during an armed period.

If zone 2 does not restore (door closed) within the programmed time, the keypad sounds every other second during the last ten seconds. If zone 2 restores prior to the end of the programmed time, the keypad silences. If the zone does not restore before the programmed time, the keypad ends the bypass and indicates the open or short zone condition to the panel.
**Zone 2 Bypass Time**

Enter the number of bypass seconds to elapse before the bypass timer expires. Range is 20-250 seconds. Press any select area to clear the keypad display and enter the number of seconds. Default is **40** seconds.

**Figure 11: Zone 2 Bypass Timeline**

**Relock on Zone 2 Change**

Select **NO** (default) to leave the relay on when Zone 2 changes to an open or short condition during bypass. Select **YES** to turn the relay off when Zone 2 changes to open or short during bypass.
Activate Zone 3 Request to Exit
Selecting **YES** activates the zone 3 Request to Exit (REX) option. Selecting **NO** allows standard zone operation on zone 3. Default setting is **NO**.

Connect a motion sensing device or a mechanical switch to zone 3 to provide REX capability to the system. Zone 3 can be used to activate the strike relay and bypass or activate bypass only. For zone wiring details, refer to Figure 7.

**Activate Strike Relay and Bypass**
Wire zone 3 as normally open with a 1K Ohm EOL resistor. When zone 3 shorts, the onboard Form C relay activates for the programmed number of seconds. See Zone 3 REX Strike Time. During this time, the user can open the protected door to start the programmed zone 2 bypass entry/exit timer. After the programmed number of seconds, the relay restores the door to its locked state.

**Activate Bypass Only**
Wire zone 3 as normally closed with an in-line 1K Ohm resistor. When zone 3 opens from a normal state, only a bypass occurs: the onboard relay does not activate.
Zone 3 REX Strike Time
Enter the number of REX seconds to elapse. Range is 5-250 seconds. Press any select area to clear the keypad display and enter the number of seconds. The default is 5.

Arming/Disarming Wait Time
Select the number of seconds (1-9) the keypad should wait to arm and disarm when an area system displays ALL? NO YES or an H/S/A system waits during arming only. If a selection is not made before the delay expires, the keypad automatically selects YES or AWAY. Select zero (0) to disable this feature. The delay also occurs when a credential is presented for arming the H/S/A system. Default is 2.

For non-Area systems with keypads that have firmware version 205 or higher, presenting a credential to the keypad automatically initiates the arming sequence after the arming wait time expires. All/Perimeter systems arm All. Home/Sleep/Away and Home/Away systems arm Away.
Card Options
Select **DMP** to allow credentials that use a 26-45 bit data string. The menu advances to **REQUIRE SITE**.

Select **CUSTOM** to disable DMP format and program slots 1-8 as needed. The menu advances to **FORMAT NO**.

Select **ANY** to allow all Wiegand card reads to activate the door strike relay. The door strike relay is activated for the length of time programmed in **ZN 3 REX TIME**. No user code information is sent to the panel. The menu advances to **NO COMM WITH PNL**.

The default card format is **DMP**.
**Card Format Number**
Select the slot number (1-8) that you want to program for a custom non-DMP card format. The format that is programmed into slot 1 is the default format. In the event that a card with an unrecognized format is used, that card will be read in the format that is programmed in slot 1. To restrict card reads to specific formats, only program slots 2-8.

See Public Card Formats for some publicly available card formats that can be used with the keypad. Other private or custom formats may also be compatible. Please contact the credential supplier or manufacturer for the bit structure.

**Note:** If you select slot 1 and you are upgrading from XR panel version 182 or earlier, **FORMAT NAME** will automatically be named **SINGLE CARD FORMAT** and **WIEGAND CODE LENGTH** will default to 45.

**Format Name**
Press any select area to rename the card format. Press **CMD** to save and advance.
**Wiegand Code Length**

When using a custom credential, enter the total number of bits to be received in Wiegand code including parity bits. Press any select key or area to enter a number between 1-255 to equal the number of bits. Default is **26** bits.

An access card contains data bits for a site code, user code, and start/stop/parity bits. The starting position, location, and code length must be determined and programmed into the keypad. See Figure 12.

**Example:** Wiegand Code Length = 26 bits

**Figure 12: Wiegand Data Stream Bit Location**
**Site Code Position and Length**

Enter the site code start position and length in the data string. Press select area 2 to clear the site code start position and enter a number between 0-255. Press CMD to save. Default is 1.

Press select area 4 to clear the site code length and enter a number between 1-24. Press CMD to save. Default is 8.

**User Code Position and Length**

Define the user code start bit position and length. Press select area 2 to clear the user code position and enter a number between 0-255. Press CMD to save. Default is 9.

Press select area 4 to clear the user code length and enter a number between 16-64. Press CMD to save. The default is the DMP value of 16.
Require Site Code
Press the top row select key or area under **YES** to use a site code and press **CMD** to view the site code entry display. Press **NO** to advance to **NO OF USER CODE DIGITS**. Default is **NO**.

In addition to user code verification, door access is only granted when any one site code programmed at the **SITE CODE ENTRY** option matches the site code received in the Wiegand string.

*Site Code Display:* You can program up to eight 8-digit site codes. The site code range is 0-16,777,214.

In the keypad display, enter site code 1 and press **CMD**. The display will ask for site code 2 followed by site code 3 and so on. When you have selected the site code you want to change, press **CMD**.
Number of User Code Digits
The keypad recognizes user codes from 4-12 digits long. Press any top row select key or area to enter a user code digit length. This number must match the user code number length being programmed in the panel. The device will recommend a number of user code digits based on the user code length. Default is 5.

All bits are read and converted into a decimal number string. The number string is left padded with 0 (zero) if needed for long user code lengths.

Example:
- # decoded: 1234567
- 10 digits: 0001234567
- 4 digits: 4567

No Communication with Panel
Define the relay action when communication with the panel has not occurred for 5 seconds: OFF, SITE, ANY, ON, or LAST. Default is OFF. Press any select key or area to change the default relay action:
Press the first select key or area to choose **OFF** (Relay Always Off). The relay does not turn on when any Wiegand string is received. **OFF** does not affect any REX operation. If communication is lost during a door strike, the relay remains on for the door strike duration but turns off at the end of the door strike timer.

Press the second select key or area to choose **SITE** (Accept Site Code). Door access is granted when the site code string received matches any programmed site code. Refer to Require Site Code for more information.

Press the third select key or area to choose **ANY** (Any Wiegand Read). Access is granted when any Wiegand string is received.

Press the fourth select key or area to choose **ON** (Relay Always On). The relay is always on.

Press **CMD** to display additional actions. Press the first select key or area to choose **LAST** (Keep Last State). The relay remains in the same state and does not change when communication is lost.
System Type
Program the keypad as the same system type selected in panel programming.

Dealer Logo
Use this option to add a custom dealer logo to the main screen of the keypad. Prior to selecting **ADD**, insert a microSD card containing the logo file into the slot on the right side of the keypad. Refer to Figure 13. Select **ADD** to upload the file to the keypad.

*Adding Logo Sure?* The keypad will display **ADDING LOGO SURE?**. Select **YES** to proceed. While the logo is being uploaded, the keypad displays **ADDING LOGO**. **ADDING LOGO COMPLETED** displays to confirm a successful upload.

Dealer Info
Select **ADD** at the **DEALER INFO** prompt to include information about the dealer when the logo is pressed. The keypad displays **ADDING INFO SURE?** to confirm the selection. Press **YES** to proceed.

*Adding Info Sure?* While the info is being uploaded to the keypad, the keypad displays **ADDING INFO**. **ADDING INFO COMPLETED** displays to confirm a successful upload. Press and release the microSD card to eject.
Carousel Z-Wave Items
Carousel Z-Wave Items allows you to select the Z-Wave options to display in the carousel menu. Press an item to select and a check-mark displays. Press again to de-select that option. Items for the carousel include **Lights**, **Doors**, **Thermostats**, and **Favorites**. Press **CMD** at the bottom of the screen to advance to the next options screen and the **back arrow** return to the previous screen. Default is no items selected. See Figure 14.

![Figure 13: Inserting a microSD Card](image)

![Figure 14: Carousel Z-Wave Items](image)
Shortcut Items
Shortcut Items allows you to select additional menu items to display in the carousel menu. Press the item to select and a checkmark displays. Press again to deselect that option. Items for the carousel include User Codes, Schedules, and Events. Default is no items selected. Select Edit Z-Wave to display the Edit Z-Wave icon for the Lights, Doors and Thermostats screens. Select Edit Favorites to display the Edit Z-Wave icon on the Favorites screen. See Figure 15.

Select Language
Select Language allows you to select the language for text on the home screen, the carousel menu screens, and some programming screens. Press a box to select a language and a check mark displays. Press that box again to deselect that option. Only one language can be selected at a time. Default is English.

Note: The keypad does not translate information from the panel that displays on the keypad screen. See Figure 16.
ADDITIONAL PROGRAMMING

Users can manually enter their user code into the keypad which then verifies the user code and its authority with the panel. The 7873/7873H activates the on-board Form C relay releasing a door strike or magnetic lock. To provide added flexibility, the keypad allows connection of an external Wiegand output compatible reader.

Program a Credential

1. Access the User Menu by pressing **CMD** until **MENU? NO YES** displays, choose **YES** and present your proximity credential to the reader or manually enter your user code at the keypad.

2. Press **CMD** until **USER CODES?** displays.

3. Press any select key. Choose **ADD**.

4. At **ENTER CODE**, present the credential to the reader. The keypad works by reading the user code from the data string sent by the access control reader.
Update the Keypad
Restart Keypad on keypads running Version 107 or higher allows the technician to restart the keypad to initiate a firmware update from a microSD card. This process takes approximately 5 minutes to complete.

Update Keypad Firmware Using Restart

1. Navigate to DMP.com/Dealer_Direct and select **Software Downloads** from the navigation menu.
2. Select a **Software Update**.
3. Click **Download** and enter **Your Name**, **Your Company**, and **Email** information.
4. After the .zip download is complete, unzip the files and save them all to the root directory of a FAT32 format microSD card.
5. Insert the microSD card into the microSD card slot on the right side of the keypad. Refer to Figure 13.
6. Press **Options** in the carousel menu and press the **Installer Options** or wrench icon.
7. Enter **3577** (INST) at the keypad and select **KPD OPT**.
8. Press **CMD** until **Restart Keypad** displays.
9. Press **Restart**. Do not remove the microSD card or disrupt power.
10. When the keypad is finished restarting and returns to the home screen, remove the microSD card.

Figure 17: Restart Keypad
TEST THE KEYPAD

Test the keypad to ensure keypad lighting, individual shortcut keys, and any programmed zones work properly. Access the Keypad Diagnostics menu by pressing **Options** in the carousel menu. Press the **Installer Options** or wrench icon and enter 3577 (INST) and press **CMD**.

### KEYPAD DIAGNOSTICS

Press the select area for **KPD DIAG**. The keypad lights all display segments and illuminates red. The display then changes to green. The keypad alternates between these two states for up to two minutes. Press **CMD** at any time to begin testing individual keys.

### Zone Test

This option allows the keypads to display the current electrical status of the four protection zones. The status is shown as **OPEN**, **SHRT**, or **OKAY**. The zone test displays on the other keypads, but is not operational.

### Test the Credential Reader

This option tests the internal and external reader input from proximity credentials. The display shows **OKAY** each time a good proximity read is received.
END USER TRAINING

This section contains instructions on how users can arm and disarm their system, use access control, and entry delay. All of the examples displayed assume that CLOSING CODE is YES in panel programming.

For more information about using your system, refer to the appropriate system user guides from DMP.com/guides:

Access the User Menu

1. In the Carousel Menu, select Keypad.
2. Tap CMD to advance to MENU? NO YES. Tap YES.
3. Enter your user code, then tap CMD.
4. Tap CMD to advance through the menu items. To enter a menu, tap any select area.
Arm and Disarm the System

Area System Type
1. Tap the home screen shield in the center of the keypad. Tap your preferred option.
2. If arming, the keypad displays ALL? NO YES. Select NO to arm individual areas. Select YES to arm all areas.
3. If disarming, the keypad displays ENTER CODE: -. Enter your user code or present a credential to the reader.

All/Perimeter System Type
1. Tap the home screen shield in the center of the keypad.
2. If arming, select ALL to arm all areas or PERIM to arm only the perimeter. If ENTER CODE: displays, enter a user code at the keypad or present a credential to the proximity reader.
3. If disarming, enter a user code at ENTER CODE: or present a credential to the proximity reader.

Home/Sleep/Away System Type
1. Tap the home screen shield in the center of the keypad.
2. If arming, HOME SLEEP AWAY displays. Select HOME to arm the perimeter, select SLEEP to arm everything except the bedroom areas, or select AWAY to arm all areas. If a selection is not made, all areas will automatically arm AWAY.
3. If ENTER CODE: displays, enter a user code at the keypad or present a credential to the proximity reader.
**Touchless Arming**

Present a credential to the built-in reader to automatically arm the system without touching the keypad. After the arming delay expires, All/Perimeter systems arm **All**. Home/Sleep/Away and Home/Away systems arm **Away**.

**Use Access Control**

**Access an Area Using the Door Strike**

If the Door Strike Relay was wired and programmed at the keypad, present a credential to the proximity reader. Once the system validates the card, the Door Strike Relay activates. See Figure 18.

While the keypad displays the Armed shield, present your access card.

The relay activates for 5 seconds. During this time, you can open the door. You have 40 seconds to exit and close the door before the time expires.

**Figure 18: Present Access Card**
Use Entry Delay When Disarming

If Entry Delay was programmed at the keypad for Area system types, the keypad sounds an entry tone and displays **ENTER CODE:** if an access door was accessed. Present a credential to the proximity reader. Once validated, the system disarms all areas accessible by the credential and activates the Door Strike Relay. Area systems provide a delay to allow selected areas only to be disarmed. See Figure 19.

![Figure 19: Entry Delay](image-url)

Entry delay starts.

Present an authorized card and the system disarms.

**Figure 19: Entry Delay**
Icon Reference

Arming Shield Icons

**Armed**

- Home
- Sleep
- Away
- Perimeter
- All System

**Alarm**

- Burglary
- Fire

**Quick Arm**

- Ready To Exit

**Exit Timer**

- Enter Code
- Arm Instant

**Popups**

- Attention List
- Alert

**Menu**

- Home
- Installer
- Navigation
- Edit

**Arming Options**

- Home
- Sleep
- Away
- Perimeter
- All System

**Panic Options**

- Police
- Emergency
- Fire
Z-Wave

Lights
Appliances
Doors
Garage Door
Favorites

Z-Wave Thermostats

Auto
Heat
Cool
Off
Fan
Room Temp

Controls
Decrease
Increase

Status Bar Header

System Ready
Attention List
Armed (Area)
Home
Sleep
Away
Perimeter
All System

Chime
Battery Trouble
AC Trouble
Wi-Fi
Change System Wi-Fi Password

When you change your network’s Wi-Fi password, the system detects that the password has changed and asks you to update it. To close the **Incorrect WiFi Password** dialog and return to the main menu, tap the Shield icon. To reopen the dialog from the main menu, tap the Wireless icon.

To change your password and re-establish communication, complete the following steps. Refer to Figure 20 and Figure 21.

1. Tap **ENTER PASSWORD**.
2. Use the onscreen keyboard to enter your password:
   - Press **ABC** to enter uppercase letters
   - Press **abc** to enter lowercase letters
   - Press **!@#** to enter special characters
   - Press **123** to enter numbers
3. Tap **CMD**.
Figure 20: Incorrect Wi-Fi Password Dialog

Figure 21: Enter Wi-Fi Password Screen
Clean the Keypad

Failure to follow cleaning recommendations may result in equipment damage.

- Do not use harsh cleaners to clean keypad surfaces.
- Do not oversaturate cleaning cloths or allow cleaner to make contact with internal electronic components, cables, or power sources.
- Do not apply excessive force to keypad displays, touchscreens, keys, or housings when cleaning.
- Do not spray cleaner directly onto the keypad. Use alcohol sprays or wipes that contain 70% isopropyl alcohol.

1. Use an alcohol wipe or spray a small amount of rubbing alcohol onto a clean, dry microfiber cloth to gently wipe down all keypad touch surfaces, removing any excess cleaner.
2. Wait 10 seconds, then completely dry all keypad surfaces.
3. If necessary, use a clean, dry microfiber cloth to gently remove streaking.
KEYPAD BUS WIRING SPECIFICATIONS

- DMP recommends using 18 or 22-gauge unshielded wire for all keypad and AX-Bus/LX-Bus circuits. Do not use twisted pair or shielded wire for AX-Bus/LX-Bus and Keypad Bus data circuits. All 22-gauge wire must be connected to a power-limited circuit and jacket wrapped.

- On Keypad Bus circuits, to maintain auxiliary power integrity when using 22-gauge wire do not exceed 500 ft. When using 18-gauge wire do not exceed 1,000 ft. To increase the wire length or to add devices, install an additional power supply that is listed for Fire Protective Signaling, power limited, and regulated (12/24 VDC nominal) with battery backup.

  **Note:** Each panel allows a specific number of supervised keypads. Add additional keypads in the unsupervised mode.

- Maximum distance for any one bus circuit (length of wire) is 2,500 ft regardless of the wire gauge. This distance can be in the form of one long wire run or multiple branches with all wiring totaling no more than 2,500 ft. As wire distance from the panel increases, DC voltage on the wire decreases. Maximum number of AX-Bus/LX-Bus devices per 2,500 ft circuit is 40.

- Maximum voltage drop between the panel (or auxiliary power supply) and any device is 2 VDC. If the voltage at any device is less than the required level, add an auxiliary power supply at the end of the circuit. When voltage is too low, the devices cannot operate properly.

For additional information refer to the panel’s Installation Guide or the 710 Installation Sheet (LT-0310).
# PUBLIC CARD FORMATS

<table>
<thead>
<tr>
<th>CARD FORMAT</th>
<th>WIEGAND CODE LENGTH</th>
<th>SITE CODE POSITION</th>
<th>SITE CODE LENGTH</th>
<th>USER CODE POSITION</th>
<th>USER CODE LENGTH</th>
<th>USER CODE DIGITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>H10301 26 BIT</td>
<td>26</td>
<td>1</td>
<td>8</td>
<td>9</td>
<td>16</td>
<td>5</td>
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<tr>
<td>H10302 37 BIT W/O FAC</td>
<td>37</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>35</td>
<td>11</td>
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<tr>
<td>H10304 37 BIT W/FAC</td>
<td>37</td>
<td>1</td>
<td>16</td>
<td>17</td>
<td>19</td>
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<tr>
<td>FARPINTE 39 BIT</td>
<td>39</td>
<td>1</td>
<td>17</td>
<td>18</td>
<td>20</td>
<td>7</td>
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<tr>
<td>CORPORATE 1000 35 BIT</td>
<td>35</td>
<td>2</td>
<td>12</td>
<td>14</td>
<td>20</td>
<td>6</td>
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<tr>
<td>CORPORATE 1000 48 BIT</td>
<td>48</td>
<td>2</td>
<td>22</td>
<td>24</td>
<td>23</td>
<td>7</td>
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</tbody>
</table>
## READERS AND CREDENTIALS

<table>
<thead>
<tr>
<th><strong>125 kHz WIEGAND PROXIMITY READERS</strong></th>
<th><strong>125 kHz PROXIMITY CREDENTIALS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>P-300 Cascade Proximity Reader</td>
<td>PSC-1 Standard Light Proximity Card</td>
</tr>
<tr>
<td>P-500 Alps Proximity Reader</td>
<td>PSK-3 Proximity Key Ring Tag</td>
</tr>
<tr>
<td>P-620 Denali Proximity Reader With Keypad</td>
<td>PSM-2P ISO Imageable Proximity Card</td>
</tr>
<tr>
<td>P-640 Patagonia Proximity Reader With Keypad</td>
<td>1306 Prox Patch™</td>
</tr>
<tr>
<td>MP-5365 MiniProx™ Proximity Reader</td>
<td>1326 Proxcard II® Card</td>
</tr>
<tr>
<td>MX-5375 MaxiProx® Proximity Reader</td>
<td>1346 ProxKey III® Access Device</td>
</tr>
<tr>
<td>PP-6005B ProxPoint® Plus Proximity Reader</td>
<td>1351 ProxPass®</td>
</tr>
<tr>
<td>PR-5355 ProxPro Proximity Reader With Keypad</td>
<td>1386 IsoProx II® Card</td>
</tr>
<tr>
<td>PR-5455 ProxPro® II Proximity Reader</td>
<td></td>
</tr>
<tr>
<td>TL-5395 ThinLine II® Proximity Reader</td>
<td></td>
</tr>
</tbody>
</table>
### 13.56 MHz Wiegand Smartcard Readers

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELTA3*</td>
<td>Mullion Mount Smartcard Reader</td>
</tr>
<tr>
<td>DELTA5*</td>
<td>Single-Gang Box Mount Smartcard Reader</td>
</tr>
<tr>
<td>DELTA6.4*</td>
<td>Smartcard Reader With Keypad</td>
</tr>
<tr>
<td>CSR-35P</td>
<td>Bluetooth Smartcard Reader</td>
</tr>
</tbody>
</table>

### 13.56 MHz Smartcard Credentials

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DE2</td>
<td>MIFARE® DESfire® EV2 Smartcard</td>
</tr>
<tr>
<td>CSK-2</td>
<td>MIFARE® DESfire® EV2 Key Fob Smartcard</td>
</tr>
</tbody>
</table>

*Delta Proximity Readers and Credentials not evaluated by UL.*
ORDERING INFORMATION

Keypads

7872-B    Graphic Touchscreen Keypad (black, 4 zones, prox reader)
7872-W    Graphic Touchscreen Keypad (white, 4 zones, prox reader)
7872-W/DEMO  7872 Demo Keypad (white)
7873-B    Graphic Touchscreen Keypad (black, 4 zones, prox reader, relay)
7873-W    Graphic Touchscreen Keypad (white, 4 zones, prox reader, relay)
7873H-W   High Security Graphic Touchscreen Keypad (white, 4 zones, prox reader, relay)
## Accessories

### Wiring Harnesses
- 300-7800-5: Replacement 5-Wire Harness
- 300-7800-12: Replacement 12-Wire Keypad Harness
- 300-7800-12ADPT: 12-Wire Harness Adapter

### Backboxes, Mounting Plates, and Stands
- 694-7800-W: 7800 Keypad Backplate (white)
- 695-7800-B: In Wall Mount Backbox (black)
- 695-7800-W: In Wall Mount Backbox (white)
- 695-7800-SFC-W: 7800 Keypad Conduit Backbox (white)
- 698-7800-B: Plastic Keypad Wall Cover (black)
- 698-7800-W: Plastic Keypad Wall Cover (white)
- 699-7800: Keypad Deskstand (with hardware and cord)
COMPLIANCE SPECIFICATIONS

Specifications
Operating Voltage 12 VDC
Dimensions 5.8” W x 4.135” H x 0.6” D

Compatibility
XT30/XT50 Series Panels
XR150/XR550 Series Panels

What Is Included?
One Graphic Touchscreen Keypad
One Model 333 Suppressor (7873/7873H only)

Additional Information
• The keypad LED brightness setting must be set above the minimum setting.
• Degraded Mode must be set to Relay Always Off.
• Do not mount keypad on metal surfaces or metallic electrical boxes.
• For listed access control applications, the keypad must be installed within the protected area and all REX devices must be Listed to UL 294.
CERTIFICATIONS

California State Fire Marshall (CSFM)

FCC Part 15 RFID Reader FCC ID: CCKPC0131

Industry Canada ID: 5251A-PC0131

Underwriters Laboratory (UL) Listed

- ANSI/UL 294 Access Control System Units
- ANSI/UL 365 Police Connected Burglar
- ANSI/UL 609 Local Burglar
- ANSI/UL 1023 Household Burglar
- ANSI/UL 1076 Proprietary Burglar
- ANSI/UL 1610 Central Station Burglar
- ANSI/UL 985 Household Fire Warning
FCC INFORMATION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made by the user and not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.
INDUSTRY CANADA INFORMATION

This device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes:

1. L’appareil ne doit pas produire de brouillage, et
2. L’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

Information furnished is believed to be accurate and reliable. This information is subject to change without notice.