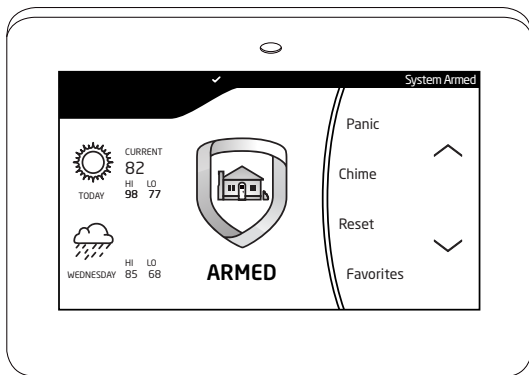


# 7800 Series Graphic Touchscreen Keypad

## INSTALLATION AND PROGRAMMING GUIDE





# TABLE OF CONTENTS

<b>About the Keypad .....</b>	<b>1</b>	<b>Additional Programming.....</b>	<b>29</b>
<b>Keypad Features.....</b>	<b>2</b>	Update the Keypad .....	30
Programmable Carousel Menu .....	3	<b>Test the Keypad .....</b>	<b>31</b>
<b>Enter Characters.....</b>	<b>4</b>	<b>End User Training .....</b>	<b>32</b>
<b>Install the Keypad.....</b>	<b>6</b>	Arm and Disarm the System.....	32
Remove the Cover .....	6	Use Access Control .....	33
Wire the Keypad.....	7	<b>Wiring Specifications.....</b>	<b>35</b>
Wire for Access Control .....	9	<b>Public Card Formats .....</b>	<b>36</b>
Wire the Electronic Lock .....	11	<b>Accessories.....</b>	<b>37</b>
Wire the 333 Suppressor .....	11	<b>Readers and Credentials .....</b>	<b>38</b>
<b>Mount the Keypad .....</b>	<b>13</b>	<b>Compliance Specifications .....</b>	<b>40</b>
<b>Program the Keypad .....</b>	<b>15</b>	<b>Certifications.....</b>	<b>42</b>
<b>Custom Card Format.....</b>	<b>21</b>	<b>FCC Information .....</b>	<b>43</b>
Carousel Z-Wave Items.....	27	<b>Industry Canada Information.....</b>	<b>44</b>
Shortcut Items.....	28		



# 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 DMP/HID 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.

## **7873**

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.

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

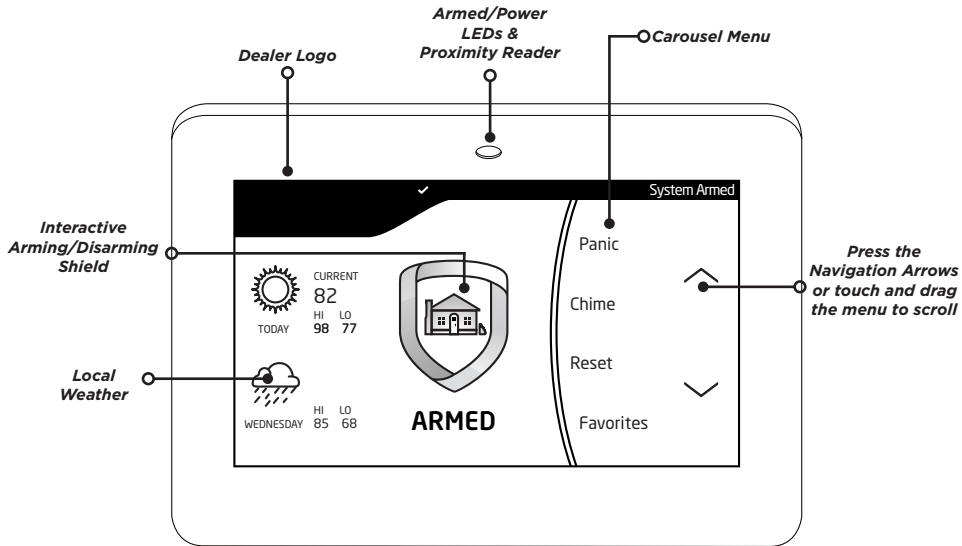


Figure 1: Keypad Features

## 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.

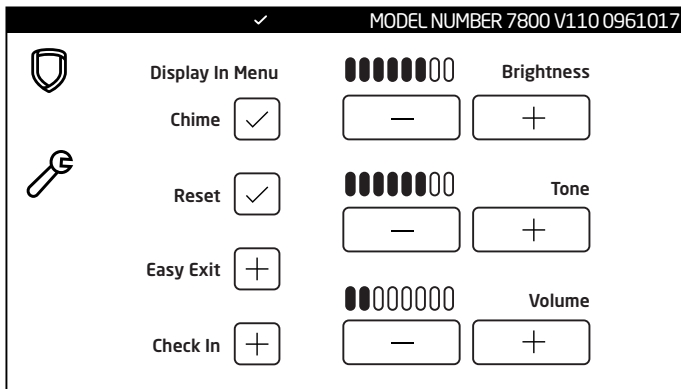


Figure 2: Keypad Options

# ENTER CHARACTERS

## Number Pad

1. Choose a character from the table.
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.

NUMBER	SELECT AREA			
	1	2	3	4
1	A	B	C	( [ {
2	D	E	F	) ] }
3	G	H	I	! ^ -
4	J	K	L	? "
5	M	N	O	/ \ `
6	P	Q	R	& \$
7	S	T	U	@ %
8	V	W	X	, =
9	Y	Z	Space	: _ ;
0	- +	. ' ,	* <	# >

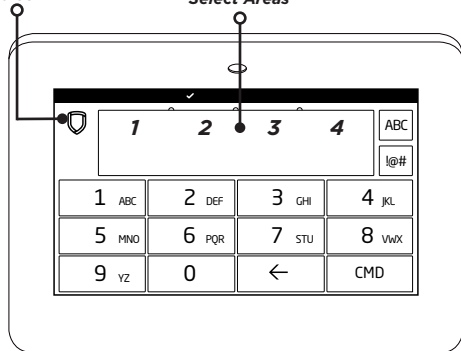
## Standard Keyboard

- 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.



*Return  
to Home  
Screen*

*Select Areas*

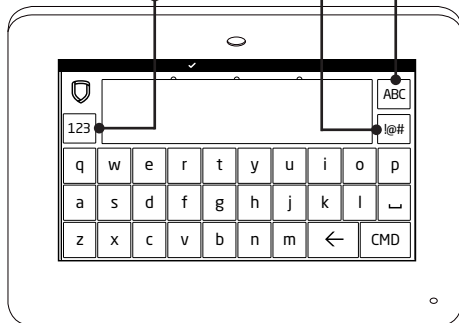


**Figure 3: Number Pad**

*Special  
Characters*

*Uppercase/  
Lowercase  
Letters*

*Number Pad*



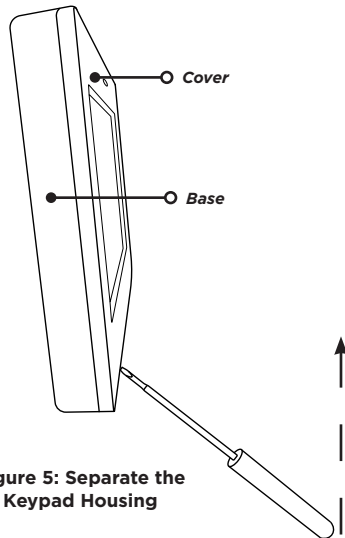
**Figure 4: Standard Keyboard**

# 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 and 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**

## **2 WIRE THE KEYPAD**

Each keypad model has specific wiring assignments. All zones are supervised and suitable for 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.

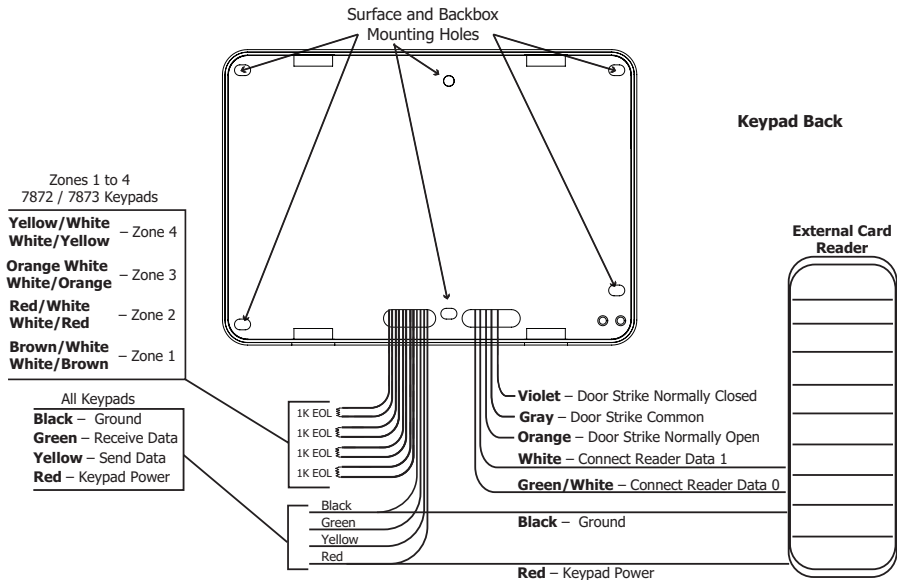
### **Model 7872**

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: Keypad Back Showing Wiring Assignments**

## 3 WIRE FOR ACCESS CONTROL

### Internal Access Control Reader

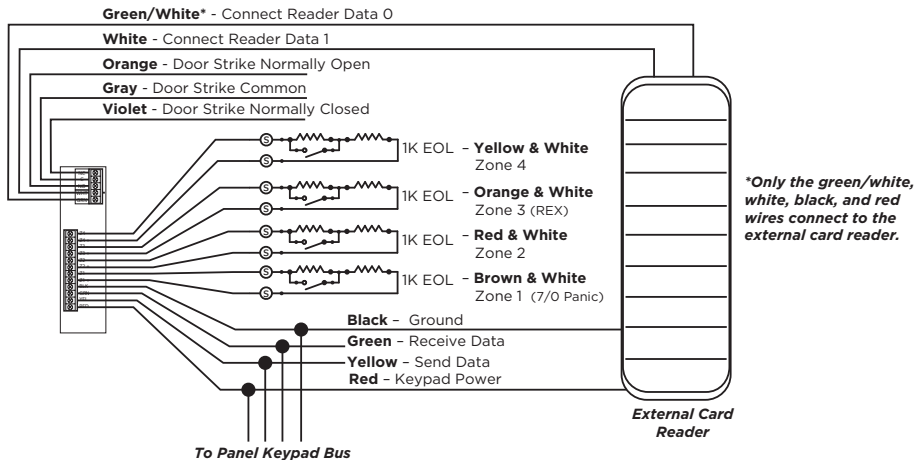
7873/7873H keypads provide a built-in proximity card reader that is compatible with most standard 125 kHz proximity credentials. An external 13.56 MHz proximity reader can be connected and will be compatible with 13.56 MHz proximity credentials. For a list of publicly supported card formats, see Public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



**Figure 7: Access Control Wiring**

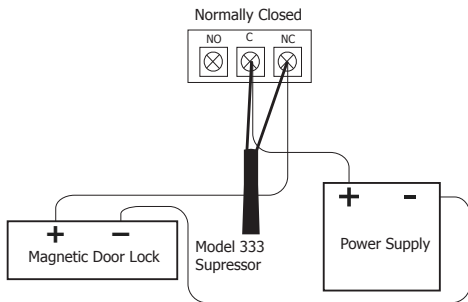
## 4 **WIRE THE ELECTRONIC LOCK**

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 three terminals 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 Figures 8a and 8b.

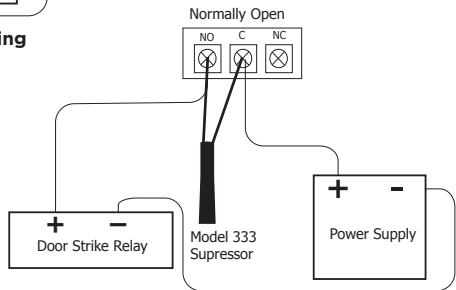
## 5 **WIRE THE 333 SUPPRESSOR**

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) terminals.

If the device being controlled by the relay is connected to the **NO** and **C** terminals, install the suppressor on the **NO** and **C** terminals. Conversely, if the device is connected to the **NC** and **C** terminals, install the 333 Suppressor on **NC** and **C** terminals. See Figures 8a and 8b.



**Figure 8a: Typical Magnetic Lock Wiring**



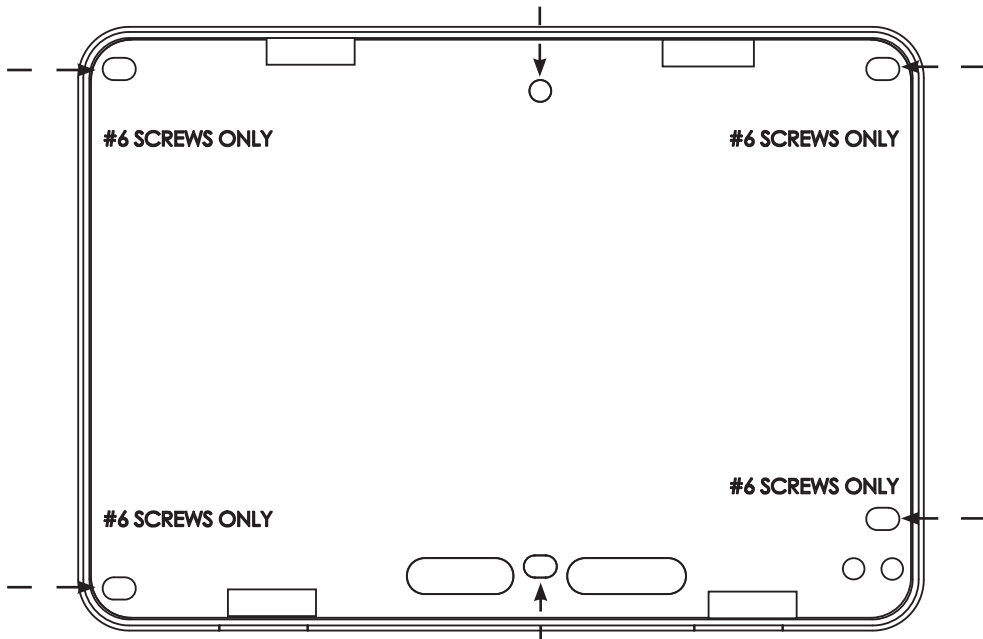
**Figure 8b: Typical Door Strike Wiring**



## MOUNT THE KEYPAD

All DMP keypad housings are designed to install on any 4" square box, 3-gang switch box, DMP 695 and 696 backbox, or directly on a flat surface.

1. Ensure all cables are routed through the keypad base cut outs before fully mounting the base to the wall. See Figure 9.
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 9: Mounting Hole Locations**

# 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** or wrench icon and enter **3577** (INST) and press **CMD**.

<b>KPD KPD</b> <b>OPT DIAG</b> <b>STOP</b>
---

## Keypad Options

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

<b>CURRENT KEYPAD</b> <b>ADDRESS: 1</b>
--

## Current Keypad Address

Set the current keypad address from 01 to 08 for XT30 or XR150 Series panels, or 01 to 16 for XR550 Series panels. The default address is set at **1**. 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:

\*SUP

UNSUP

DEFAULT KPD MSG:

ARM PANIC KEYS:

\*PN

\*EM

\*FI

## 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 de-select 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 option(s).

ACTIVATE ZONE 2  
BYPASS?    **NO**

## 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 on-board 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: **40**

### **Zone 2 Bypass Time**

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

RELOCK ON ZONE 2  
CHANGE? **NO**

### **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  
REX? **NO**

### **Activate Zone 3 REX**

Selecting **YES** activates the Zone 3 Request to Exit (REX) option. Selecting **NO** (default) allows standard zone operation on Zone 3.

Connect a motion sensing device or a mechanical switch to Zone 3 to provide REX capability to the system. When Zone 3 shorts, the on-board 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.

The keypad provides a bypass-only option for REX on Zone 3. When Zone 3 opens from a normal state, only a bypass occurs: the on-board relay does not activate. This bypass-only option uses two methods of REX. The first REX device provides the programmed bypass entry/exit timer. The second REX unlocks the door.

ZN 3 REX STRIKE TIME: <b>5</b>
-----------------------------------

### **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**.

ALL?:	NO	YES
DELAY:		<b>2</b>

## 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 a H/S/A system waits during arming only. If **NO** or **YES**, or **HOME, SLEEP**, or **AWAY** is not manually selected 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**.



# CUSTOM CARD FORMAT

ANY CARD FORMAT  
**NO** YES

## Any Card Format

Select **YES** to allow all 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. Default is **NO**.

CARD FORMATS  
FORMAT NO: -

## Card Formats

Select the slot number (1-7) that you would like to program a custom non-DMP card format into. Select **8** if you would like to program a DMP card format. 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.

FORMAT NAME  
\*UNUSED\*

## Format Name

Press any select area to rename the card format. Press **CMD** to save and advance.

WIEGAND CODE  
LENGTH:

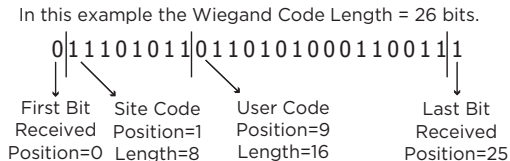
**26**

## 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 area to enter a number between 1-255 to equal the number of bits. Default is **26** bits.

Typically, 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 10.



**Figure 10: Data Stream Bit Location Example**

SITE CODE

POS: **1**      LEN: **8**

### Site Code Position and Length

Enter the site code position and length in the data string. Press select area 2 to clear the site code start position. 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

POS: **9**      LEN: **16**

### 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. Default is the DMP value of **16**.

REQUIRE SITE  
CODE: **NO** YES

### Require Site Code

Press the select 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 **SITE CODE** matches the site code received in the Wiegand string.

SITE CODE 1:

### Site Code Display

Program up to 8 eight-digit site codes. 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 the next site code and so on.

NO OF USER CODE  
DIGITS: **5**

### Number of User Code Digits

The keypad recognizes user codes from 4 to 12 digits in length. Press any select area to clear the keypad display and enter the user code digit length being used by the panel. Default is 5. For an XR150/XR550 area type, use 4 to 10 digits (typically 5). For all other systems and panels, use 4 digits.

NO COMM WITH PN  
OFF

CHOOSE ACTION  
OFF SITE ANY ON

CHOOSE ACTION  
LAST

## No Communication With Panel

This option defines the relay action when communication with the panel has not occurred for five seconds. Press any select key to display **CHOOSE ACTION**.

Press the first select area to choose **OFF** (Relay Always Off). The relay remains off when any Wiegand string is received. **OFF** does not affect any REX operation.

Press the second select area to choose **SITE** (Accept Site Code). Door access is granted when the Wiegand site code string received matches any site code programmed at **SITE CODE ENTRY**.

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

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

Press **CMD** to go to the last option. Press the first select area to choose **LAST** (Keep Last State). The relay remains in the same state and does not change when communication is lost.

After choosing the action, **NO COMM W PANEL** and the defined action display in the keypad. Keypad programming is complete. See Additional Programming to program a credential into the keypad.

SYSTEM OPTIONS  
AREA A/P H/A HSA

### System Type

Program the keypad as the same system type selected in panel programming.

DEALER LOGO  
ADD DELETE

### 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 in to the slot on the right side of the keypad. Select **ADD** to upload the file to the keypad.

ADDING LOGO  
SURE? NO YES

### 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
ADD            DELETE

### 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?      NO   YES

### 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 11.

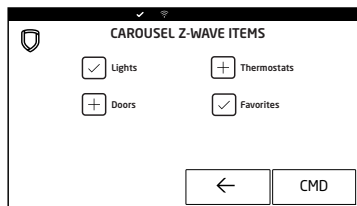


Figure 11: Carousel Z-Wave Items

## 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 12.

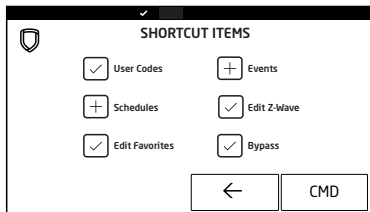


Figure 12: Shortcut Items

## 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 13.

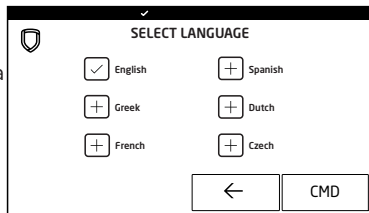


Figure 13: Select Language



# 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 Micro SD card. This process takes approximately 5 minutes to complete. .

### Update Keypad Firmware Using Restart

1. Navigate to [DMP.com/Dealer\\_Direct](http://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 Micro SD card.
5. Insert the Micro SD card into the Micro SD card slot on the right side of the keypad.
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 Micro SD card or disrupt power.
10. When the keypad is finished restarting and returns to the home screen, remove the Micro SD card.

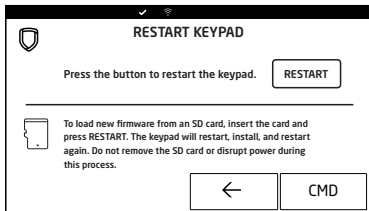


Figure 14: Restart Keypad

# 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**.

KPD **KPD**  
OPT **DIAG**      STOP

## 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.

Z1 OPEN    Z2 OPEN  
Z3 OPEN    Z4 OPEN

## 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.

INPUT WIEGAND

## 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.

## ***ARM AND DISARM THE SYSTEM***

### **Area System Type**

1. Press **CMD** until the keypad displays **ARM DISARM**.
2. Press the select key under the preferred option.
3. If arming, the keypad displays **ALL? NO YES**. Select **NO** to arm individual areas. Select **YES** to arm all areas. If disarming, the keypad displays **ENTER CODE: -**. The user can either enter their user code or present their credential to the proximity reader. Once validated by the system, all areas assigned to that code or credential disarm automatically.

### **All/Perimeter System Type**

Press **CMD** until **ARM DISARM** displays. If arming, press **ARM**. Select **ALL** to arm all areas or **PERIM** to arm only the perimeter. At **ENTER CODE:**, enter a user code at the keypad or present a credential to the proximity reader. If disarming, select **DISARM**. At **ENTER CODE:**, enter a user code at the keypad or present a credential to the proximity reader.

## Home/Sleep/Away System Type

Press **CMD** until **ARM DISARM** displays. If arming, present a credential to the proximity reader. Once the card is validated, **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**. If disarming, present a credential to the proximity reader. Once the card is validated, all areas are disarmed and the keypad displays **ALL SYSTEM OFF**.

## 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 15.

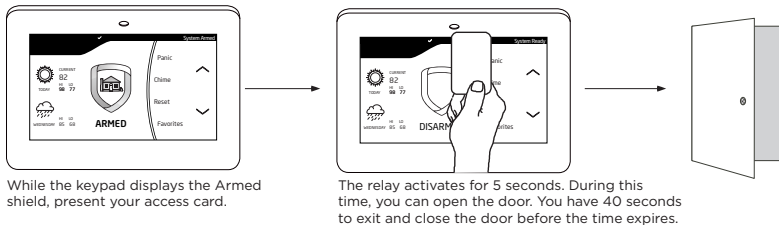
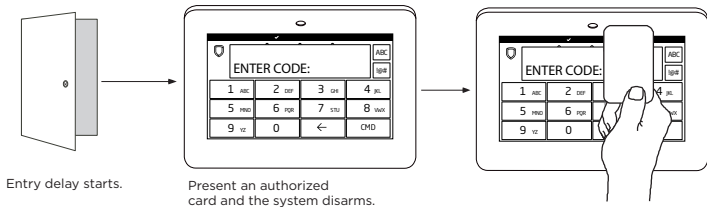


Figure 15: Present Access Card

## 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 16.



**Figure 16: Entry Delay**

# WIRING SPECIFICATIONS

When planning a keypad bus installation, keep in mind the following specifications:

- DMP recommends using 18 or 22-gauge unshielded wire for all keypad and LX-Bus circuits. Do Not use twisted pair or shielded wire for LX-Bus and keypad bus data circuits. To maintain auxiliary power integrity when using 22-gauge wire do not exceed 500 feet. When using 18-gauge wire do not exceed 1,000 feet. Install an additional power supply to increase the wire length or add devices.
  - Maximum distance for any one circuit (length of wire) is 2,500 feet 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 feet. As wire distance from the panel increases, DC voltage on the wire decreases.
  - Maximum number of devices per 2,500 feet circuit is 40.
-  **Note:** Each panel allows a specific number of supervised keypads. Add additional keypads in the unsupervised mode. Refer to the panel installation guide for the specific number of supervised keypads allowed.
- Maximum voltage drop between the panel (or auxiliary power supply) and any device is 2.0 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.

# PUBLIC CARD FORMATS

CARD FORMAT	WIEGAND CODE LENGTH	SITE CODE POSITION	SITE CODE LENGTH	USER CODE POSITION	USER CODE LENGTH	USER CODE DIGITS
HID H10301 26 BIT	26	1	8	9	16	5
HID H10302 37 BIT W/FAC	37	1	16	17	19	6
HID H10304 37 BIT W/O FAC	37	0	0	1	35	12
FARPOINTE 39 BIT	39	1	17	18	20	7
CORPORATE 1000 35 BIT	35	2	12	14	20	6
CORPORATE 1000 48 BIT	48	2	22	24	23	7



# ACCESSORIES

## **Backboxes**

695 or 696 keypad backbox, 777 protective keypad cover

## **Proximity Readers and Proximity Credentials**

See Readers and Credentials.

# READERS AND CREDENTIALS

125 KHZ PROXIMITY READERS	
P-300	CASCADE PROXIMITY READER
P-500	ALPS PROXIMITY READER
P-640	PATAGONIA PROXIMITY READER WITH KEYPAD
MP-5365	MINIPROX™ PROXIMITY READER
MX-5375	MAXIPROX® PROXIMITY READER
PP-6005B	PROXPOINT® PLUS PROXIMITY READER
PP-5355	PROXPRO PROXIMITY READER WITH KEYPAD
PR-5455	PROXPRO® II PROXIMITY READER
TL-5395	THINLINE II® PROXIMITY READER

125 KHZ PROXIMITY CREDENTIALS	
PSC-1	STANDARD LIGHT PROXIMITY CARD
PSK-3	PROXIMITY KEY RING TAG
PSM-2P	ISO IMAGEABLE PROXIMITY CARD
1306	PROX PATCH™
1326	PROXCARD II® CARD
1346	PROXKEY III® ACCESS DEVICE
1351	PROXPASS®
1386	ISOPROX II® CARD

<b>13.56 MHZ PROXIMITY READERS</b>	
DELTA3	FARPOINTE PROXIMITY READER
DELTA5	FARPOINTE PROXIMITY READER
DELTA5.3	FARPOINTE PROXIMITY READER
DELTA6.4	FARPOINTE PROXIMITY READER

<b>13.56 MHZ PROXIMITY CREDENTIALS</b>	
DC1-1	FARPOINTE CLAMSHELL SMARTCARD
DM1-3	FARPOINTE IMAGEABLE SMARTCARD
DE2	FARPOINTE MIFARE® DESFIRE® EV1 SMARTCARD
DK1-3	FARPOINTE KEY FOB SMARTCARD

\*Delta Proximity Readers and Credentials not evaluated by UL.

# COMPLIANCE SPECIFICATIONS

## Specifications

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

## Compatibility

XT30/XT50 Series Panels

XR150/XR550 Series Panels

## What Is Included?

One LCD Keypad

One Model 333 Suppressor

## 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 Licence-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.





