

9000 Series Wireless Keypad

INSTALLATION AND PROGRAMMING GUIDE

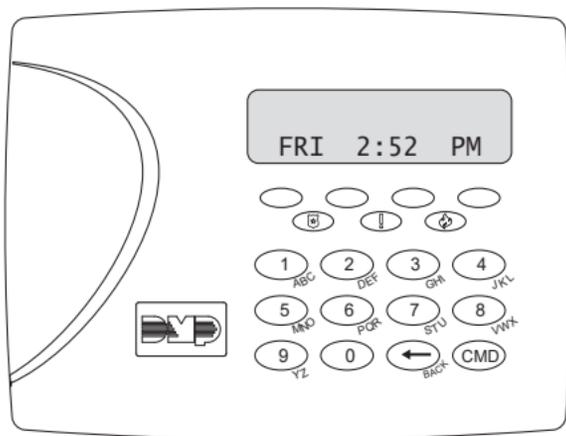


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ABOUT THE KEYPAD

The 9060 and 9063 are supervised keypads that provide installation flexibility. The backlit keys are easy to read and when the system is in alarm, both the keyboard and logo turn red.

Features

- Custom 32-character full LCD display
- Three 2-button panic keys
- Backlit keys
- Internal sounder
- Wall tamper protection
- Keypad turns red in alarm
- Wireless Encryption (requires a keypad with firmware Version 300 or higher and a panel with firmware Version 183 or higher)
- Built-in proximity card reader (Model 9063)

What's Included

- One wireless keypad mounted in a Thinline™ housing
- One internal rechargeable 3.7 V lithium battery
- One 12 VDC Plug-in Power Supply
- Mounting hardware

KEYPAD LAYOUT

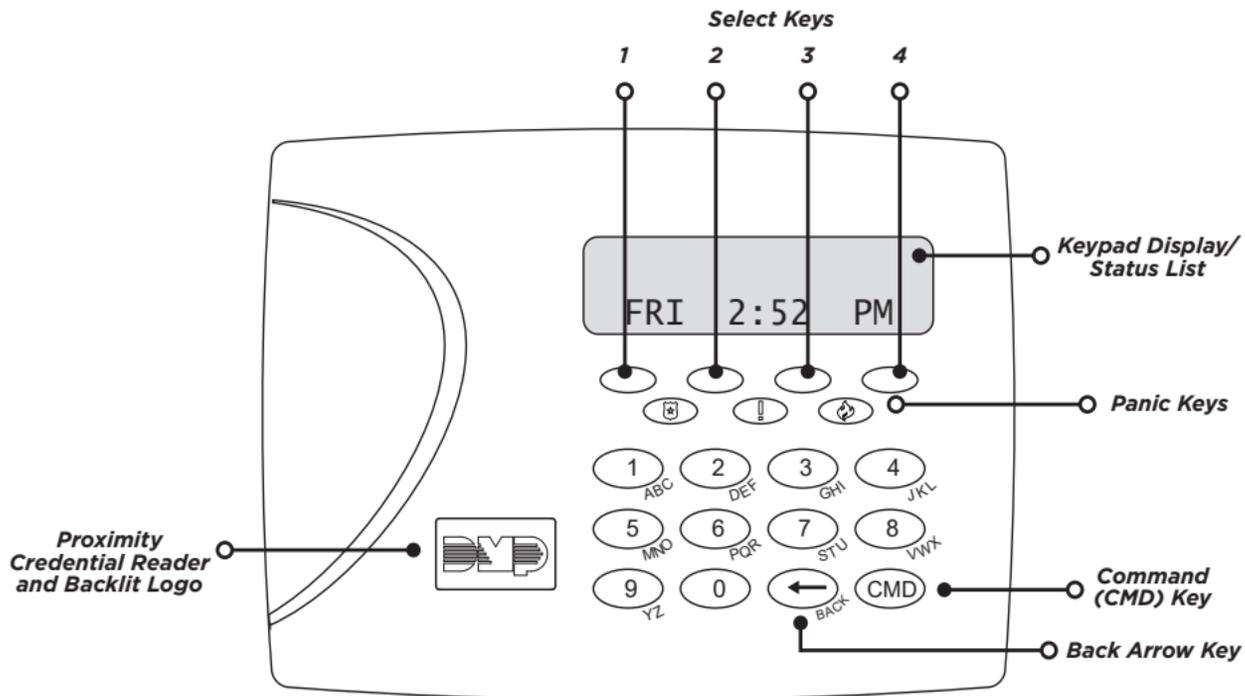


Figure 1: 9000 Series LCD Keypad

ENTER CHARACTERS

Number Pad

1. Choose a character from the appropriate table.
2. Identify the **Number** that the character correlates with and press that key.
3. Identify the **Select Key** for the character and press that key. For lowercase Latin characters, press the select key again.
4. If you want to enter another character, repeat steps 1 - 4.
5. When you're finished, press **CMD**.

NUMBER	SELECT KEY			
	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	- +	. ' ,	* <	# >

Table 1: Latin Characters

NUMBER	SELECT KEY			
	1	2	3	4
1	A	B	Γ	([{
2	Δ	E	Z)] }
3	H	Θ	I	! ^ -
4	K	Λ	M	? "
5	N	Ξ	O	/ \ `
6	Π	P	Σ	& \$
7	T	Υ	Φ	@ %
8	X	Ψ	Ω	, =
9	Space	Space	Space :	_ ;
0	- +	. ' ,	* <	# >

Table 2: Greek Characters

Card Reader

When a proximity credential is presented to the 9063 internal reader, located behind the backlit logo, a beep tone is emitted to provide an audible acknowledgment of the credential read.

Two-Button Panic Keys

All keypads offer a panic key function that allows users to send panic, emergency, or fire reports to the central station in an emergency. Enable the panic key function in the keypad user menu. Place the supplied icon stickers below the top row select keys. The user must press and hold the two select keys for two seconds until a beep is heard.

Panic (left two select keys)—Zone 19 + Device Address

Emergency Non-Medical (center two select keys)—Zone 29 + Device Address

Fire (right two select keys)—Zone 39 + Device Address

Backlit Logo

The backlit logo indicates the armed status of the panel and the power and battery status of the keypad.

COLOR AND ACTIVITY	ARMED STATUS	DC POWER STATUS	BATTERY STATUS	PAIRED
Green Steady	Disarmed	OK	OK	Yes
Green Blinking	Disarmed	OK	Fault	Yes
Red Steady	Armed	OK	OK	No
Red Blinking	Armed	Fault	OK	No
Red/Green Alternating	Armed	OK	Fault	Unknown
No Light	Unknown	Fault	Unknown	Unknown

Table 3: Logo Color and Behavior

User Options Menu

To access the Options menu, press and hold the back arrow and **CMD** keys for 2 seconds.

Backlighting Brightness

Adjust the brightness, green keyboard, and logo backlighting. At **SET BRIGHTNESS**, use the left and right select keys to adjust the brightness. The brightness reverts to maximum intensity whenever a key is pressed. If no keys are pressed and the speaker has not sounded for 10 seconds, the user-selected brightness restores.



Note: During primary power loss, the backlighting turns completely off after 10 seconds of no activity to conserve the standby battery.

Internal Speaker Tone

Adjust the keypad internal speaker tone. At **SET TONE**, use the left select key to decrease the tone and the right select key to increase the tone.

Internal Volume Level

Adjust the keypad internal speaker volume for key presses and entry delay tone conditions. During alarm and trouble conditions, the volume is always at maximum level. At **SET VOLUME LEVEL**, use the left select key to decrease the volume and the right select key to increase the volume.

Model Number

Display the keypad model number, firmware version, and date.

Serial Number

Display the keypad's serial number.

SELECT A LOCATION

Before installing the keypad, ensure that it will be able to communicate with the panel from the location where you want to mount it. To test wireless communication with the keypad's built-in RF survey, complete the following steps.

1. Power the keypad.
2. Hold down the back arrow and **CMD** keys for two seconds.
3. Enter **3577** (INST) and press **CMD**.
4. Select **KPD RF** (wireless survey).

For more information, see [Keypad Wireless Survey](#).

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 flathead screwdriver into one of the slots on the bottom of the keypad and gently lift the screwdriver upward. Repeat with the other slot. Gently separate the cover from the base and set the cover containing the keypad components aside. See [Figure 2](#).

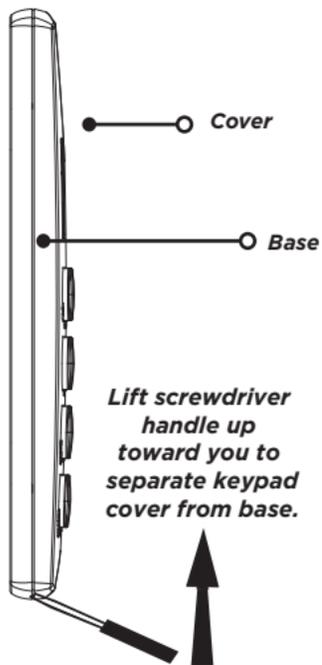


Figure 2: Separate the Keypad Housing

2 Mount the Keypad

All DMP keypads are designed to install on any desk stand, 4" plastic square box, 3-gang plastic switch box, or a flat surface. Do not install the keypad near metal objects or other sources of interference.

Insert the included screws into the mounting holes and secure the keypad to the wall, ensuring that the wall tamper switch makes proper contact. See [Figure 3](#).

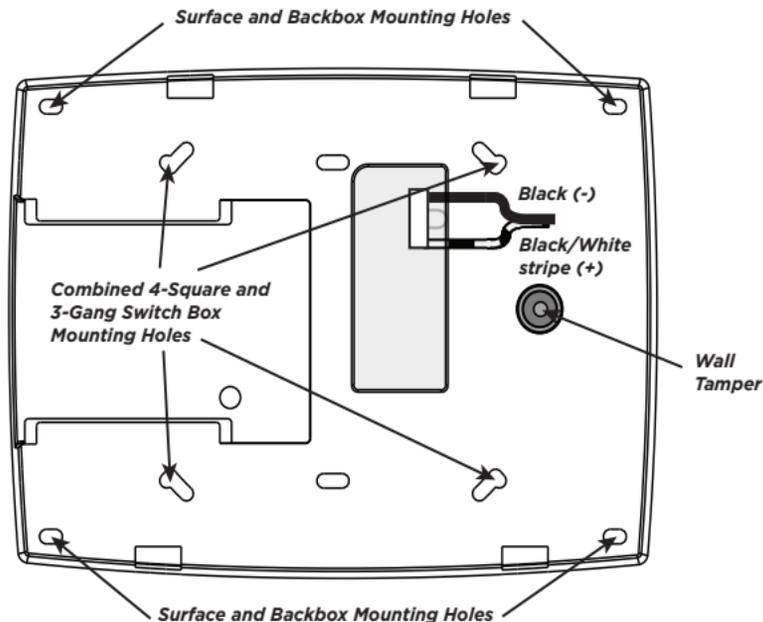


Figure 3: Mounting Holes on Keypad Back

3 Power the Keypad

Primary DC Power Supply

Locate the keypad near a wall outlet to allow connection of the Model 371-500 plug-in DC power supply. See [Figure 4](#) for a diagram of the DC power supply connector. In addition to powering the keypad, the power supply also charges the internal back-up battery. The plug-in power supply includes a six foot cord. The cord can be lengthened but should be located within 100 feet of the keypad using 22 AWG wire.

⚡ Caution: Observe polarity when extending the power supply cord.

When the power supply connector is plugged into the keypad, the internal battery is automatically connected. The keypad can operate from battery only as long as the power supply connector is plugged into the keypad.

Standby Battery

The keypad rechargeable battery provides 24 hours of backup battery power when primary DC power is unavailable. It is shipped already installed inside the keypad. The battery is intended for backup power only and not to operate the keypad on a daily basis. If the battery is low, or not plugged into the internal battery connector, a low battery condition is indicated by the panel when the battery falls below 3.62 VDC. To restore the keypad from a low battery state, the voltage must be above 3.62 VDC.

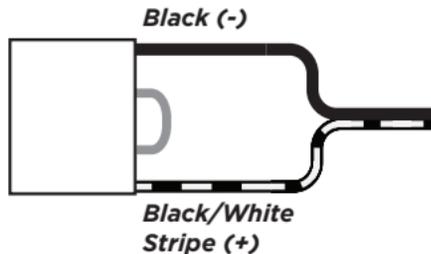


Figure 4: DC Power Supply Connector

PAIR THE KEYPAD

You can program up to 7 wireless keypads in a panel with XR Series Version 191 (3/8/19) or higher and XT Series Version (11/15/19) or higher.

9000 Series wireless keypads can be programmed into the control panel by using the wireless keypad pairing operation or by entering the serial number in Device Setup.

The keypad logo is red when it is not paired to a panel. The keypad logo turns green when it is paired to a panel. If the light is not on, the keypad is not receiving DC power. For more information, refer to [Table 3](#).



Note: If you're programming the keypad as a device type manually, skip this section and go to [Device Setup](#).

During pairing, unaddressed keypads are automatically assigned to the first open device address based on the order in which they are detected.

Step 1: Enable Pairing at the Keypad

Hold down the back arrow and **CMD** keys for two seconds. Enter **3577** (INST) and press **CMD**. Select **KPD RF** (wireless survey). For more information, see [Keypad Wireless Survey](#).

Step 2: Initiate Pairing at the Panel

Select one of the following methods to initiate pairing with the panel:

Pair Automatically (XTL Series Only)

Reset or power up the panel. For 60 seconds, the panel listens for wireless keypads that are in wireless survey and have not been programmed or paired to another panel.

Pair Manually (Any Compatible Panel Model)

Reset the panel 3 times within 12 seconds, allowing the panel's Keypad Bus LEDs to turn back on between each reset.

PROGRAM THE PANEL



Note: If you completed the steps in [Pair the Keypad](#), you may skip this section unless you need to configure device options like Supervision Time.

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

DEVICE SETUP

Advance to **DEVICE SETUP**, then press a select area to enter the setup menu.

DEVICE SETUP
DEVICE NO: -

Device Number

Set the keypad address at 1-16 for XR550 Series panels or 1-8 for other compatible panels.

DEVICE SETUP
UNUSED

Device Name

Press any select area, then enter a name for the wireless keypad.

DEVICE SETUP
TYPE: **KEYPAD**

Device Type

For use as a standard keypad, select **KPD**. For use as an access control keypad, press any select area, then select **DOOR**.

DEVICE SETUP
COMM TYPE: **WLS**

Communication Type

Press any select area, then select **WLS** (Wireless) as the communication type.

DEVICE SETUP
SERIAL#:-

Serial Number

Enter the eight-digit wireless serial number. Range is 14500000-14999999.

DEVICE SETUP
SUPRVSN TIME: **240**

Supervision Time

Press any select area and choose a supervision time. Options are **0**, **60**, or **240** minutes.

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

PROGRAM KEYPAD OPTIONS

Keypad Options and Keypad Diagnostic menus allow install and service technicians to configure and test keypad operation. To access the installer options:

Hold down the back arrow and **CMD** keys for two seconds. At **SET BRIGHTNESS**, enter **3577** (INST) and press **CMD**.

The display changes to **KPD OPT KPD DIAG** and **STOP**. The Keypad Options menu allows you to set the keypad address, select Supervised or Unsupervised mode, change the default keypad message, selectively enable the 2-button Panic keys, Bypass, REX, and set entry card options.



Note: All programming options display on all keypads. However, actual operation for some programming options is restricted to the appropriate model.

KPD KPD KPD
OPT DIAG RF STOP

KEYPAD OPTIONS

To program keypad options, press **KPD OPT**.

SERIAL #:XXXXXXXX

Serial Number

The keypad displays its serial number.

DEFAULT KPD MSG:

Default Keypad Message

Enter a custom message of up to 16 characters to appear at the top of the keypad display. Press any select key, enter a new message, and press **CMD**.

ARM PANIC KEYS:

*PN EM *FI

Arm Panic Keys

Use this option to configure the select keys as two-button panic keys. To enable or disable a panic option, press the select key under the desired name: **PN** (panic), **EM** (emergency), and **FI** (fire). Press the select key again to disable the panic option. Once the panic option is enabled, an asterisk displays next to the selected option(s).

ALL?: NO YES
DELAY: 2

ALL? NO YES (9063 Only)

Select the number of seconds (1-9) the keypad should wait when an area system displays **ALL? NO YES** during arming/disarming or a HOME/SLEEP/AWAY 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 any credential is presented for arming the Home/Sleep/Away system. Default is **2**.

ENABLE TAMPER?
NO YES

Enable Tamper?

Select YES to enable wall tamper protection. Default is NO.

CARD FORMATS
DMP CUSTOM ANY

CARD FORMATS

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 FORMATS
FORMAT NO: -

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
UNUSED

WIEGAND CODE
LENGTH: **26**

Format Name

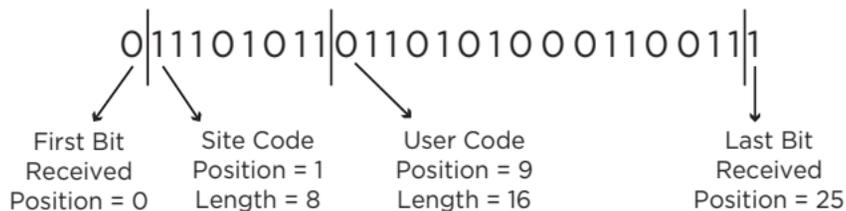
Press any select area to rename the card format. Press **CMD** to save and advance.

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 5](#).



Example: Wiegand Code Length = 26 bits

Figure 5: Wiegand Data Stream Bit Location

SITE CODE

POS: **1** LEN: **8**

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

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. The default is the DMP value of **16**.

REQUIRE SITE
CODE: **NO** YES

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 1:

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**.

NO OF USER CODE
DIGITS: **5**

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 COMM WITH PNL
OFF

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:

OFF SITE ANY ON

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.

OFF SITE ANY ON

Press the second select key or 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. Refer to "Require Site Code" for more information.

OFF SITE ANY ON

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

OFF SITE ANY ON

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

LAST

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.

KYPD LANGUAGE:
LANG: **ENGLISH**

KYPD LANGUAGE:
ENG SPN FRN DUT

KYPD LANGUAGE:
EAA CZK

KEYPAD LANGUAGE

Define the keypad's language. Default is **ENGLISH**.

Press any select key to change the language options.

Press select key 1 to select English. Press select key 2 to select Spanish. Press select key 3 to select French. Press select key 4 to select Dutch.

Press **CMD** to advance the language options.

Press select key 1 to select Greek. Press select key 2 to select Czech.

Additional Programming (9063 only)

9063 keypads allow users to present a proximity credential to the built-in proximity reader. Users can also manually enter their user code into the keypad. The keypad verifies the user code and its authority with the panel.

Proximity Credential Compatibility

DMP keypads with internal proximity readers are compatible with most standard 125 kHz 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. Test the intended proximity credentials with the application before installation. DMP does not guarantee compatibility with credentials not purchased from DMP.

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.

TEST THE KEYPAD

Test the keypad to ensure alarm backlighting, individual shortcut keys, and any programmed zones work. To begin testing, access the Installer Options menu. Hold down the **back arrow** and **CMD** keys at the same time until **SET BRIGHTNESS** displays. Enter **3577** and press **CMD**.

KPD **KPD**
OPT **DIAG** STOP

KEYPAD DIAGNOSTICS

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

PRESS KEY TO
TEST

Test Individual Keys

The display changes to **PRESS KEY TO TEST**. This option tests each key on the keyboard to ensure it is operating properly. Press and hold each key for two seconds. The key number being held appears in the display. Verify the correct number displays before testing the next key.

Z1 OPEN Z2 OPEN
Z3 OPEN Z4 OPEN

Zone Test (9063 Only)

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

Input Wiegand (9063 Only)

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

KPD KPD **KPD**
OPT DIAG **RF** STOP

Keypad Wireless Survey

Press the select key under **KPD RF** to start the RF communication survey test. The keypad logo turns red indicating communication has not been established with the panel receiver. When successful communication has been established, the keypad logo turns green.

RF SURVEY

RF Survey

Use **RF SURVEY** during the keypad association programming by the control panel. The backlit logo turns green to indicate that it has been associated by the panel.

EXIT INSTALLER OPTIONS

When you've finished programming, press **CMD** once to return to the main menu. Select **STOP** to save programming and exit.

END USER TRAINING

This section covers:

- Keypad Arming and Disarming
- Keypad Entry Delay

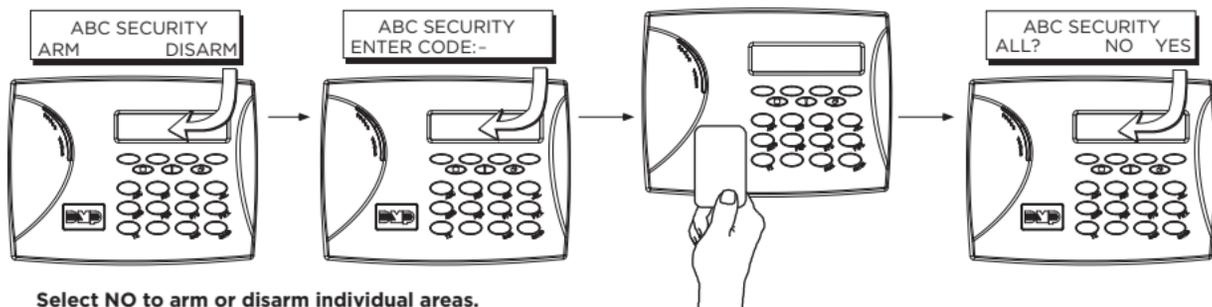
All of the examples displayed assume that **CLOSING CODE** is enabled in panel programming.

Keypad Arming and Disarming

Area System Type

1. Press **CMD** until the keypad displays **ARM DISARM**.
2. Press the select key under the preferred option.
3. The keypad displays **ENTER CODE: -**. The user presents their card to the reader.

Once validated by the system, all areas assigned to that code arm or disarm automatically. See [Figure 6](#).



Select **NO** to arm or disarm individual areas.

Select **YES**, or simply wait, to automatically arm or disarm all areas for which you are authorized.

Figure 6: Area Arming and Disarming

All/Perimeter System Type

Present the card to the reader or press **CMD**, the keypad displays **DISARM?** or **PERIM ALL** (when arming). Press the select key under the desired option. The keypad displays **ENTER CODE: -**. Present the card to the reader. Once validated by the system, the selected areas arm or disarm automatically.

Home/Away System Type

Present your card to the reader. If the system is armed, once the card is validated, all areas are disarmed and the keypad displays **ALL SYSTEM OFF**. If the system is disarmed when you present your card, once the card is validated, **HOME SLEEP AWAY** displays. Manually select **HOME**, **SLEEP**, **AWAY** or after a short time-out, all areas automatically arm in the **AWAY** mode.

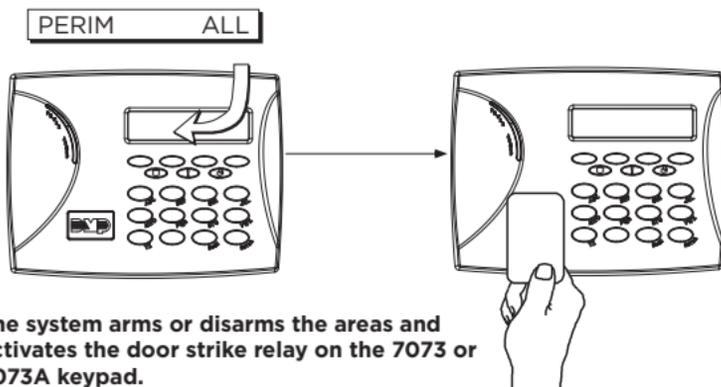


Figure 7: All Perimeter Arming and Disarming

Keypad Entry Delay

All Systems

Once the entry delay starts, the keypad sounds an entry tone and displays **ENTER CODE: -**. Present your card to the reader. Once validated, the system disarms all areas accessible by you. Area systems provide a delay to allow selected areas only to be disarmed. See Keypad Arming and Disarming.

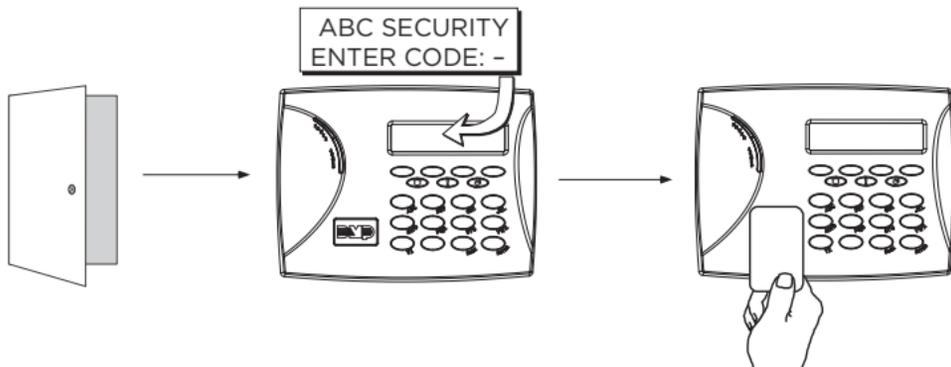


Figure 8: Entry Delay

Replace the Battery

DMP recommends replacing the battery every 3 years under normal use. Refer to [Figure 9](#) and [Figure 10](#) when replacing the battery.

Remove the Keypad PCB

1. Disconnect the power supply.
2. Loosen the top PCB snaps.
3. Lean the keypad backwards and lift out from the bottom PCB snaps.

Battery Replacement

1. Disconnect the battery lead connector from the keypad battery header.
2. Remove the standby battery from the PCB.
3. Observe polarity and connect the battery connector to the keypad battery header.
4. Using double-sided tape, place the new battery on the keypad PCB.
5. Properly dispose of the used battery.



Caution: Risk of fire, explosion, and burns. Do not disassemble, heat above 212°F (100°C), or incinerate.

Install the Keypad PCB

1. Ensure the keyboard is in place, then insert the PCB into the bottom snaps.
2. Line up the alignment post with the hole in the PCB.
3. Press the PCB into the top snaps to secure in place.
4. Place the keypad cover back onto the base and snap into place.

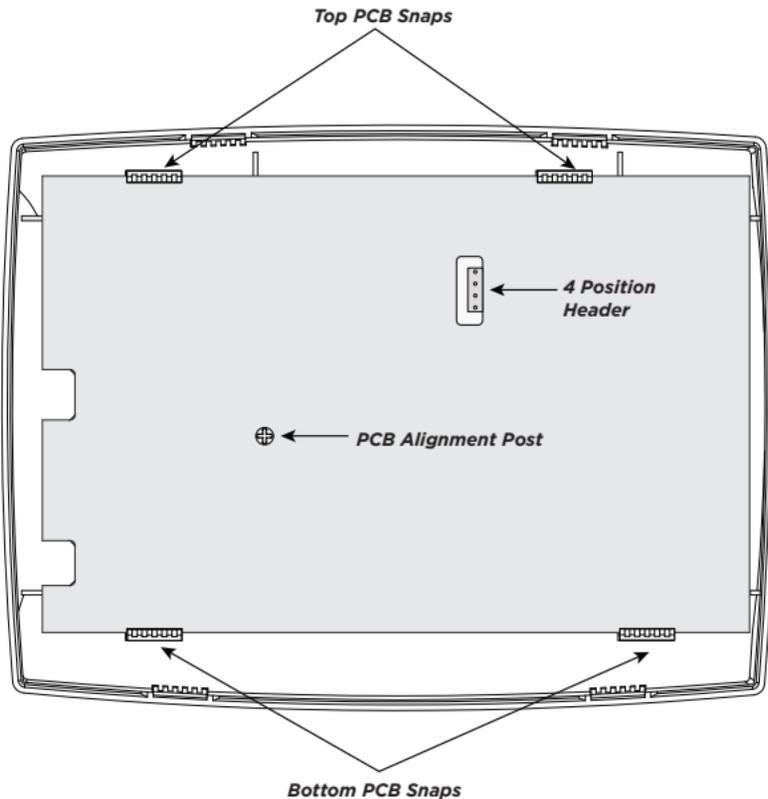


Figure 9: PCB Snaps

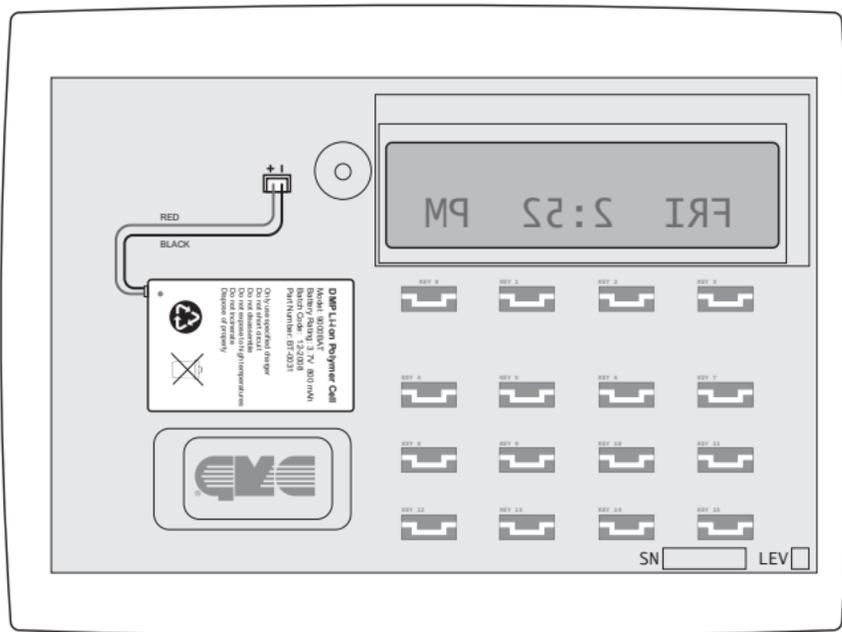


Figure 10: Battery Location and PCB Connection

COMPATIBILITY

Panel Models

All DMP panels and 1100 Series Wireless Receivers are compatible with the 9000 Series. Wireless encryption requires keypad firmware Version 300 or higher and panel firmware Version 183 or higher.

Public Card Formats

CARD FORMAT	WIEGAND CODE LENGTH	SITE CODE POSITION	SITE CODE LENGTH	USER CODE POSITION	USER CODE LENGTH	USER CODE DIGITS
H10301 26-Bit	26	1	8	9	16	5
H10302 37-Bit w/o FAC	37	0	1	1	35	11
H10304 37-Bit w/ FAC	37	1	16	17	19	6
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

Credentials

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

PRODUCT SPECIFICATIONS

Operating Voltage	12 VDC, 500 mA
Standby Battery	
Model	9000BAT
Voltage	3.7 VDC
Capacity	800 Ah
Type	Lithium Polymer, Rechargeable
Standby Time	24 Hours
Frequency Range	905-924 MHz
Dimensions	7.00" W x 5.25" H x 0.50" D (17.8 cm x 13.3 cm x 1.3 cm)
Color	White
Housing Material	Flame-Retardant ABS

Patents

U.S. Patent No. 7,239,236

COMPLIANCE LISTING SPECIFICATIONS

Commercial Burglary

- Set the Enable Tamper option to **YES** for all listed commercial burglary applications.
- Use DMP proximity cards only for listed applications.

CERTIFICATIONS

ANSI/SIA CP-01-2010 False Alarm Reduction

FCC Part 15 RFID Reader

FCC ID: CCKPC0126

Industry Canada: 5251A-PC0126

Underwriters Laboratory (UL) Listed

- **ANSI/UL 1023** Household Burglar Alarm System Units
- **ANSI/UL 1610** Central Station Burglar Alarm Units
- **ANSI/UL 985** Household Fire Warning System

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.*

This system has been evaluated for RF Exposure per RSS-102 and is in compliance with the limits specified by Health Canada Safety Code 6. The system must be installed at a minimum separation distance from the antenna to a general bystander of 7.87 inches (20 cm) to maintain compliance with the General Population limits.

L'exposition aux radiofréquences de ce système a été évaluée selon la norme RSS-102 et est jugée conforme aux limites établies par le Code de sécurité 6 de Santé Canada. Le système doit être installé à une distance minimale de 7.87 pouces (20 cm) séparant l'antenne d'une personne présente en conformité avec les limites permises d'exposition du grand public.

