

1134 Wireless Access Control Module

INSTALLATION AND PROGRAMMING GUIDE

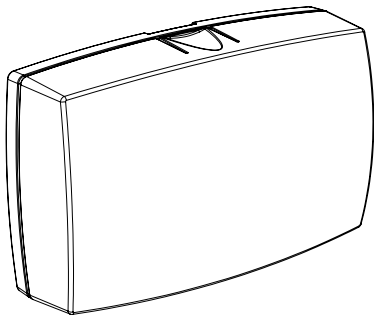


TABLE OF CONTENTS

About the 1134 1

Power Supply	1
Zone Terminals	1
Annunciators	1
Indicator LEDs	1
Form C Relay.....	2
Programming Connection.....	2
Dry/Wet Contact	2
Built-In LED Survey.....	2
1134 Devices Per Panel	2

PCB Features.....3

Program the 11344

Device Setup	4
Zone Information.....	5

Install the 11346

Select a Location.....	6
Mount the 1134.....	7
Wire the Access Control Lock.....	8

Isolation Relay (optional)	10
Install the 333 Suppressor	11
Wire the Zone Terminals.....	12
Connect a Wiegand Card Reader	14
Connect the Power Supply.....	17

Program the 1134 18

Programmer Menu	19
<i>Serial Number Display</i>	19
Initialization Options.....	19
Access Options	20
<i>Activate Zone 2 Bypass</i>	20
<i>Activate Zone 3 Request to Exit</i>	22
<i>Activate Onboard Speaker</i>	23
<i>Card Formats</i>	23
<i>Require Site Code</i>	27
<i>Number of User Code Digits</i>	28
<i>Card Format Added/Changed (Custom Format)</i>	28
<i>No Communication with Panel</i>	29
Remove Keypad	30

Compatibility	31
Public Card Formats	32
Readers and Credentials	33
Product Specifications	35
Certifications.....	36
FCC Information	37
Industry Canada Information.....	38

ABOUT THE 1134

The 1134 Wireless Access Control Module allows you to use the powerful, built in access control capability of DMP Panels using smartcard, proximity, mag stripe, or biometric readers, or other compatible authentication devices. The 1134 includes the following features:

Power Supply

The 1134 operates at 12/24 VDC from the power supply supporting a door's magnetic lock or door-strike.



Warning: To avoid the risk of equipment damage, do not exceed 750 mA total output current for zones connected to the module.

Zone Terminals

Zones 1 - 4 on the 1134 can be programmed for a variety of burglary or access control applications.

Annunciators

An onboard programmable piezo provides local annunciation at the 1134. You can also connect a variety of switched ground annunciators to the 1134 for remote annunciation.

Indicator LEDs

The 1134 provides three indicator LEDs:

- RELAY (red) turns on for the same duration as the door strike relay.
- WIEGAND (yellow) turns on for one second to indicate receipt of valid input.
- SURVEY (red) indicates signal strength to the wireless receiver.

Form C Relay

The 10 Amp Form C relay draws up to 35 mA of current. Refer to “Wire the Access Control Lock” and “Isolation Relay (optional)” in this document for more information.

Programming Connection

The 1134 also provides a keypad programming connection that allows you to use a standard DMP LCD keypad for initial setup. Programming can be completed using a keypad connected to the 1134.

Dry/Wet Contact

Apply 12 VDC power from the module directly to the door relay (WET setting) or connect the relay to a separate power supply (DRY setting).

Built-In LED Survey

The 1134 provides survey LED capability that allows one person to confirm communication with the panel and receiver while the cover is removed.

1134 Devices Per Panel

Up to seven 1134s can be added per XT30 Series panel with version 205 firmware or higher—with up to four 1134s per XT30 with less than version 205 firmware.

Up to seven 1134s can be added per XT50 panel and XR Series panel.

PCB FEATURES

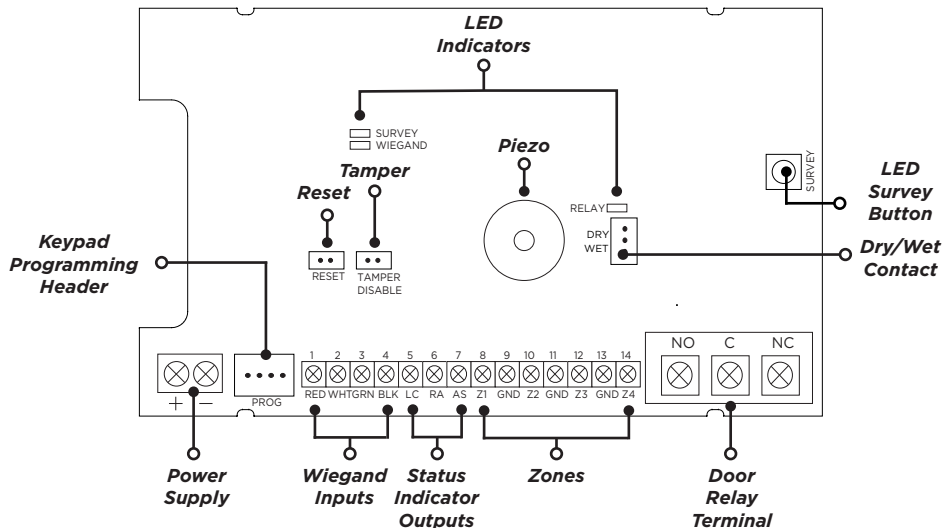


Figure 1: PCB Features

PROGRAM THE 1134

Refer to the panel programming guide as needed.

1. Reset the panel.
2. At the keypad, enter **6653** (PROG) to access the **PROGRAMMER** menu.

Device Setup

1. In **DEVICE SETUP**, press **CMD** until you get to **DEVICE NO: -**.
2. Enter a **DEVICE NO:-** and press **CMD**. Addresses 1-8 are available on XT and XTL Series panels, as well as XR150 Series panels. XR550 Series panels have addresses 1-16 available.
3. Enter a **DEVICE NAME** and press **CMD**.
4. (XT30/XT50 only) Select **YES** when **WIRELESS?** displays.
5. Select **DOOR** for **DEVICE TYPE** and press **CMD**.
6. (XR150/XR550 only) Select **WLS** at **COMM TYPE** and press **CMD**.
Note: Panel version 191 or higher software is required.
7. Enter the eight-digit **SERIAL#** that starts with **14** (SN1) and press **CMD**.
8. Enter the **SUPRVSN TIME** and press **CMD**.

Zone Information

1. In **ZONE INFORMATION**, enter the wireless **ZONE NO:** - and press **CMD**.
2. Enter the **ZONE NAME** and press **CMD**.
3. Select the **ZONE TYPE** and press **CMD**.
4. At **NEXT ZN?**, select **NO**.
5. Select **YES** when **WIRELESS?** displays.
6. Enter the eight-digit **SERIAL#** that starts with **08** (SN2) and press **CMD**.
7. Enter the **CONTACT** number being used.
8. Enter the **SUPRVSN TIME** and press **CMD**.
9. At the **NEXT ZN?** prompt, select **YES** and continue to program up to three more zones. Additional zones must be entered sequentially. See Table 1.

Panel	Zones
XT30/XT50, XTLplus, & XTLtouch	The zone numbers begin with the 1134 address and are followed by the particular zone from the 1134. For example, an 1134 at keypad address 4 would provide zones 41, 42, 43, and 44.
XR150	Zone numbers are valid from 500-599. Zones must still be programmed sequentially (i.e. 551, 552, 553, and 554).
XR550	Zone numbers are valid from 500-999. Zones must still be programmed sequentially (i.e. 551, 552, 553, and 554).

Table 1: Zone Information

INSTALL THE 1134

1 *Select a Location*

1. With the cover removed, hold the module in the desired location.
2. Press the survey button to send a signal to the panel and determine if communication is confirmed or faulty.

✓ **Confirmed:** For each press of the survey button, the transmitter LED blinks immediately on and immediately off. The LED remains off when the transmitter is synced with the panel. Repeat this test to confirm five separate consecutive LED blinks. Any indication otherwise means proper communication has not been established.

✗ **Faulty:** If communication is faulty, the transmitter LED remains on for about 8 seconds or flashes multiple times in quick succession.

3. If the transmitter is not communicating with the panel, start by confirming that it is correctly wired and programmed, then look for items that might cause interference such as large metal objects or electronic equipment. Relocate the transmitter or receiver until the LED confirms clear communication.

2 *Mount the 1134*

The module comes in a high-impact plastic housing that you can mount directly to a wall, backboard, or other flat surface.

For easy installation, the back and ends of the 1134 housing have wire entrances. The back also contains multiple mounting holes that allow you to mount the module on a single-gang switch box. DMP recommends mounting the 1134 near the protected door. Refer to Figure 2 for mounting hole locations on the housing base.

1. Remove the PCB from the plastic housing by loosening the clips on one side and gently lifting it out of the housing base.
2. Insert the included screws in the desired mounting hole locations and tighten them to secure the housing to the surface.
3. Reinstall the PCB in the housing base.

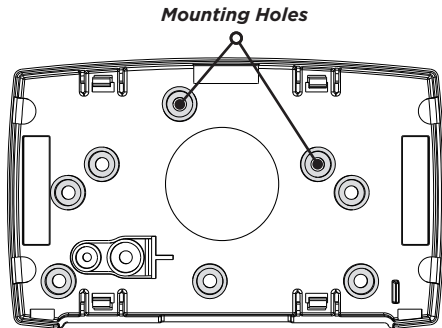


Figure 2: Mounting Hole Locations

2 *Wire the Access Control Lock*

The 1134 provides a Form C (SPDT) relay for controlling locks and other electronically-controlled barriers. The three relay terminals marked NO C NC allow you to connect the device wiring to the relay for module control. See Figure 3, Figure 4, and Figure 5 for typical magnetic lock and door strike wiring.

The Form C relay draws up to 35 mA of current and contacts are rated for 10 Amps (resistive) at 12/24 VDC.

When connecting multiple locks to the Form C relay, the total current for all locks cannot exceed 10 Amps. If the total current for all locks exceeds 10 Amps, problems may arise and an isolation relay may be needed. Refer to “Isolation Relay (optional)” for more information.

When the jumper on the 1134 is set to WET, up to 750 mA 12 VDC will pass through the C terminal and no additional power supply is needed.

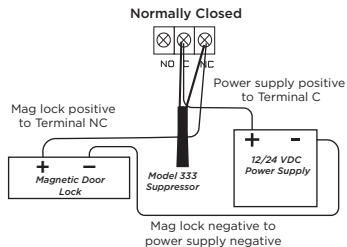


Figure 3: Typical Magnetic Lock Wiring

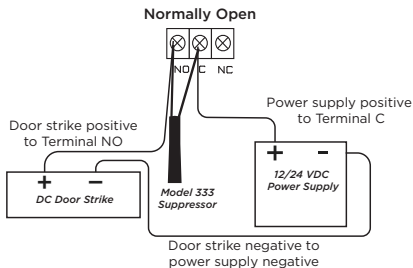


Figure 4: Dry Door Strike Wiring

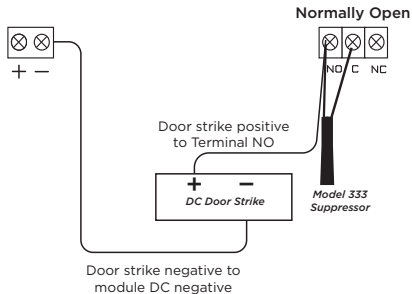


Figure 5: Wet Door Strike Wiring

3 Isolation Relay (optional)

The Form C relay can control a device that draws less than 10 Amps of current. If a device draws more than 10 Amps of current, or the sum of all devices controlled by the Form C relay exceeds 10 Amps, an isolation relay must be used. Refer to Figure 6 and Figure 7 for isolation relay wiring.

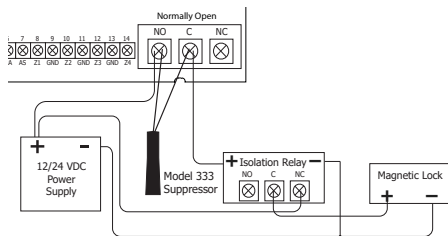


Figure 6: Magnetic Lock with an Isolation Relay

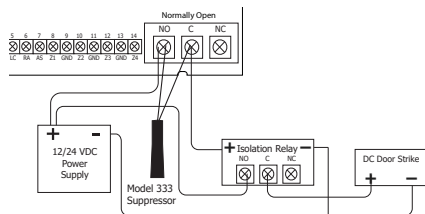


Figure 7: Door Strike with an Isolation Relay

4 *Install the 333 Suppressor*

Use the included 333 suppressor with the 1134 to suppress any surges caused by energizing a magnetic lock or door strike.

Install the 333 across the module's 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.

The suppressor wire is non-polarized. Install the suppressor as shown in Figure 8.

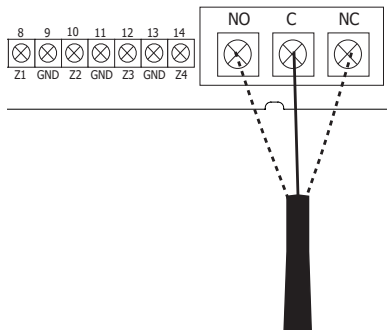


Figure 8: 333 Suppressor Installation on the 1134

5 *Wire the Zone Terminals*

Terminals 8 through 14 connect grounded zones 1 through 4. These zones have a grounded side and cannot be used for fire-initiating devices. Zones 2 and 3 can also be used for access control with zone 2 providing a bypass feature and zone 3 providing request to exit functionality.

Use the supplied 311 1k Ohm End-of-Line (EOL) resistors on each zone. Refer to the panel programming guide for programming instructions. See Table 2 and Figure 9 for more information on wiring the zone terminals.

Zone #	Recommended Device	Residential Fire Device?
1	Any burglary device	No
2	Door contact	No
3	REX (PIR or Button)	No
4	Any Device	No

Table 2: 1134 Zone Uses

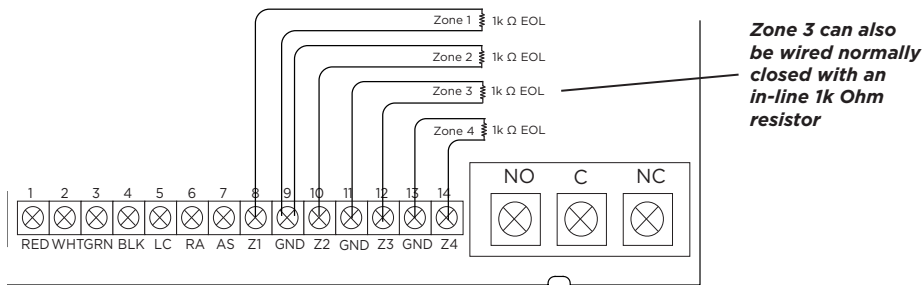


Figure 9: Zone Terminal Wiring

6 *Connect a Wiegand Card Reader*

The 1134 provides direct 12/24 VDC, 200 mA output to the reader on the Red terminal connection. Figure 10 shows a reader with wire colors RED, WHT, GRN, and BLK connecting to Terminals 1, 2, 3, and 4.

The green wire carries Data Zero (D0), and the white wire carries Data One (D1). The red wire connects 12/24 VDC, 200 mA maximum power and the black wire is ground.

The wire colors may be different depending on the reader being installed. Refer to the literature provided with the reader for wire coding, wire distance, cable type (such as shielded), and other specifications.

Wiegand Status Indicator Outputs

Terminals 5, 6, and 7 provide connections for Remote LED Control, Remote Annunciation, and Armed Status indicators.

LC (Remote LED Control)

Remote LED Control provides an unsupervised switched ground for a visual indicator that turns on when the relay activates. Connect the wire from the LC Terminal to an LED. The LED turns on for the duration the door strike relay is on. HID readers optionally provide a connection for LED reader control.

LC Wire Color	LED Color
Orange	Green
Brown	Red

RA (Remote Annunciation)

Remote Annunciation provides an unsupervised switched ground for a remote annunciator that turns on when the Zone 2 Bypass timer expires. Connect the wire from the RA Terminal to a remote annunciator. The remote annunciator silences when the RA restores. The remote annunciator (RA) switched ground operates even if the speaker is programmed not to operate.

AS (Armed Status)

Armed Status provides an unsupervised switched ground for a visual or audible armed status indicator that turns on when the burglary areas are armed, such as SYSTEM ON or ALL SYSTEM ON. Connect a wire from the AS Terminal to an armed status indicator.

 **Caution:** Status indicator outputs support a maximum of 100 mA per terminal. Exceeding the maximum rating on LC, RA, or AS terminals can damage equipment.

Wiegand Card Reader

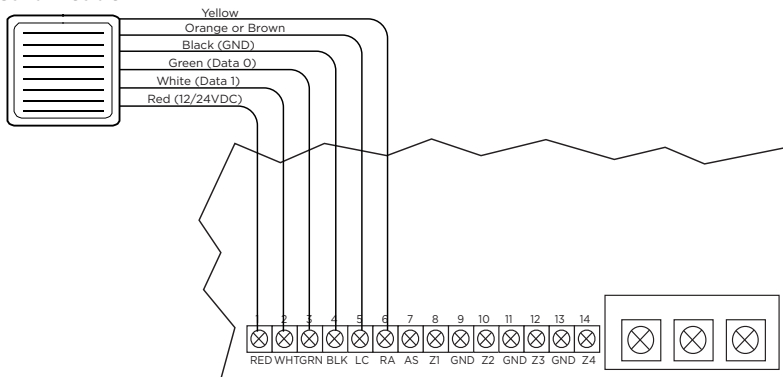


Figure 10: Wiegand Card Reader Wiring

7 *Connect the Power Supply*

The device can also be powered by a 12 VDC plug-in power supply (Model 376L) or a 12 VDC external power supply (Model 505-12). When using a plug-in power supply, mount the device near a wall outlet.

1. Remove the housing cover.
2. Install the supplied jumper on the two pins next to EXT on the power source header.
3. Wire the power supply to the DC power terminals by following the power supply-specific instructions below.
4. Snap the cover into place.

Plug-In Power Supply

Connect the black wire with the white stripe to the positive (+) terminal and the solid black wire to the negative (-) terminal. Plug the power supply into an unswitched 110 VAC outlet.

External Power Supply

Use 22 AWG wire to connect the DC power terminal block on the device to the DC power terminal on the 505-12 power supply PCB. Connect the transformer to an unswitched 120 VAC 1.5 Amp power source.

PROGRAM THE 1134

When you program a 1134, you can use a keypad connected to the 1134 programming header and set to address 1. For 12 V applications, connect the keypad to the module using a Model 330 4-wire harness. For 24 V applications, connect the keypad to the module using a Model 330-24 4-wire programming harness with in-line resistor.

 **Caution:** Do not connect a keypad using a standard Model 330 harness if using a 24 V power supply! Damage to the keypad could occur.

1134 PROGRAMMING
VER VVV MM/DD/YY

SERIAL#: XXXXXXXX

INITIALIZE ALL?
NO YES

ARE YOU SURE?
YES NO

PROGRAMMER MENU

When you connect the keypad to the 1134 module, the version number and release date display. Press **CMD** to advance to Initialization Options.

Serial Number Display

View the serial numbers for the 1134. The 1134 has a Type 14 and Type 08 serial number. Press **CMD** to view the second serial number.

INITIALIZATION OPTIONS

These options can set the 1134 module programming memory back to factory defaults. Press any select key or area to enter the Initialization Menu. Press **CMD** to advance to "Access Options".

Initialize Confirm Option: After selecting **YES** to clear the Access Options, the 1134 displays **SURE? YES NO** for confirmation to clear the memory. This is a safeguard against accidentally erasing the programming. No memory is cleared from the programming until you answer **YES** to the **SURE?** option. Selecting **NO** leaves communication options unchanged.

ACTIVATE ZONE 2
BYPASS? **NO** YES

ACCESS 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 1134 module is protected (contact installed), a programmable bypass entry/exit timer can be provided by connecting its contact wiring to module 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 piezo sounds every other second during the last ten seconds. If zone 2 restores prior to the end of the programmed time, the piezo silences. If the zone does not restore before the programmed time, the 1134 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 seconds to elapse before the bypass timer expires. The range is 20-250 seconds. Press any select key or area to enter the number of seconds. The default is **40** seconds. Figure 11 shows how the bypass option works.

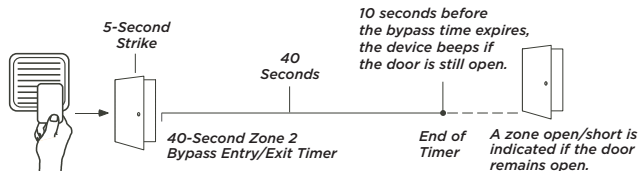


Figure 11: Zone 2 Bypass Timeline

RELOCK ON ZONE 2
CHANGE? **NO** YES

Relock on Zone 2 Change

Selecting **YES** turns the relay off when zone 2 changes state. Selecting **NO** leaves the relay on when zone 2 changes state. Turning off the relay allows a long strike time to be automatically ended upon zone 2 change and relocks the door. The default is **NO**.

ACTIVATE ZONE 3
REX? **NO** YES

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 9.

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 and the onboard relay does not activate.

ZN 3 REX STRIKE
TIME: **5**

ACTIVATE ONBOARD
SPEAKER? **NO** YES

CARD FORMATS
DMP CUSTOM ANY

Zone 3 REX Strike Time

Enter the number of REX seconds to elapse. The range is 5 to 250 seconds. Press any select key or area to enter the number of seconds. The default is **5** seconds.

Activate Onboard Speaker

Select **YES** to enable the onboard piezo for local annunciation, such as alarm and trouble annunciations. Select **NO** to turn the speaker off for all operations. This does not affect remote annunciator open collector (RA) operation. The default is **NO**.

Card Formats

Select **DMP** to allow credentials that use a 26 - 45 bit data string. The menu advances to "Require Site Code".

Select **CUSTOM** to disable DMP format and program slots 1-8 as needed. The menu advances to "Card Format Number".

Select **ANY** 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. The menu advances to "No Communication with Panel".

The default card format is **DMP**.

CARD FORMATS
FORMAT NO: -

Card Format Number

Notice: If you see CARD OPTIONS, refer to LT-0737C.

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 1134. 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

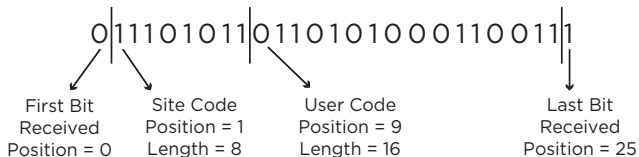
Press any select area to rename the card format. Press **CMD** to save and advance.

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 12.



Example: Wiegand Code Length = 26 bits

Figure 12: 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. Default is **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 1134 module recognizes user codes from 4-10 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

CARD FORMATS
26 BIT ADDED

Card Format Added/Changed (Custom Format)

When a custom card format is added successfully, the keypad displays xx **BIT ADDED**, where xx is the Wiegand code length. When the format is changed, the keypad displays xx **BIT Changed**. Press **CMD**. The menu returns to "Card Format Number". Program another custom card format or press **CMD** to advance to **NO COMM WITH PNL**.

NO COMM WITH PNL
OFF

OFF SITE ANY ON

OFF SITE ANY ON

OFF SITE ANY ON

OFF SITE ANY ON

LAST

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 Wiegand site code string received matches any site code programmed at 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.

REMOVE KEYPAD

REMOVE KEYPAD

After programming is saved, the **REMOVE KEYPAD** option continually displays with no timeout if the keypad remains connected to the module. After five seconds, the piezo begins sounding continually. To disconnect the keypad and silence the piezo, remove the keypad harness.

COMPATIBILITY

- All DMP 1100 Series Wireless Receivers and Transmitters v106 and higher



Note: If the 3rd digit of the transmitter's serial number is greater than 0, it will be v106 or higher. If the 3rd digit is equal to zero, that transmitter must be removed or replaced with a newer transmitter for the 1134 to function properly.

- XR150/XR550 Series Panels with a compatible wireless receiver and firmware Version 192 or higher
- All XT Series Panels (including XTL+ and XTLtouch)

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
DMP Bluetooth 56-Bit	56	1	16	17	34	10

Readers and Credentials

125 kHz WIEGAND READERS	
P-300	Cascade Proximity Reader
P-500	Alps Proximity Reader
P-620	Denali Proximity Reader With Keypad
P-640	Patagonia Proximity Reader With Keypad
MP-5365	MiniProx™ Proximity Reader
MX-5375	MaxiProx® Proximity Reader
PP-6005B	ProxPoint® Plus Proximity Reader
PR-5355	ProxPro Proximity Reader With Keypad
PR-5455	ProxPro® II Proximity Reader
TL-5395	ThinLine II® Proximity Reader
SR3	Bluetooth and 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

BLUETOOTH MOBILE CREDENTIALS
Mobile Credentials (SR3)

13.56 MHz WIEGAND SMARTCARD READERS

DELTA3*	Mullion Mount Smartcard Reader
DELTA5*	Single-Gang Box Mount Smartcard Reader
DELTA6.4*	Smartcard Reader With Keypad
CSR-35P	Bluetooth Smartcard Reader

*Delta Proximity Readers and Credentials not evaluated by UL.

13.56 MHz SMARTCARD CREDENTIALS

DE2	MIFARE® DESfire® EV2 Smartcard
CSK-2	MIFARE® DESfire® EV2 Key Fob Smartcard

PRODUCT SPECIFICATIONS

Primary Power	8.5 VDC to 28.5 VDC
Current Draw	
Standby	220 mA (includes 200 mA for proximity reader)
Peak	230 mA (includes 200 mA for proximity reader)
Reader Current	up to 200 mA
Zones	5 VDC, 2 mA max
Total Available Output Current	750 mA
Dimensions	4.5 W x 2.75 H x 1.75 D in (11.43 W x 7 H x 4.45 D cm)
Weight	8 oz (0.23 kg)

CERTIFICATIONS

FCC ID: CCKPC0205

Industry Canada ID: 5251A-PC0205

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.

