

# Pyramid Series Control Cards

## Control Card Purpose

Control Cards are PSC-1 Standard Light Proximity Cards programmed with special codes that instruct Pyramid Series Proximity Readers to alter internal configuration settings in order to perform specific tasks. When a reader recognizes that a control card has been presented, it performs the specific task associated with the control card. These tasks might be to toggle operating parameters within the reader, or it might be to perform reader operability tests. Multiple control cards may be presented to a reader to obtain the desired operation. Unless specified, the presentation of a control card does not result in the transfer any card data to the access panel.

## Control Card Categories

Control Cards are broken into three categories based on their use.

1. Installation Tools
  - Data Line Test
  - Factory Default
  - Hold Mode
  - LED Mode
  - Non-Stop Output
2. Field Customization
  - Beeper Suppress
  - LED Suppress
  - Magnetic Stripe Format Lock
  - Wiegand Format Lock
  - Wiegand Keypad Data Mode
3. Advanced Pyramid Proximity Features
  - fleaPower™
  - MAXSecure™ Code
  - Tamper Mode

### ***Important Notice***

*All control cards are only active for approximately ten minutes immediately following reader power-up. Following the ten minute active period, the reader will no longer read a control card in order to prevent unauthorized modification of reader settings.*

## How to Order

Pyramid Series control cards can be ordered from the supplier: Farpointe Data P/N: 05287-001.



# Pyramid Series Control Cards

The following control cards are currently available:

| Control Card                               | Description  | 1 Beep                     | 2 Beeps                   |
|--|--|----------------------------|---------------------------|
| <b>Advanced Pyramid Proximity Features</b> |  |                            |                           |
| <b>fleaPower™</b>                          | Toggles between the fleaPower low-power eco-technology mode and the normal operational mode.   | fleaPower is disabled      | fleaPower is enabled      |
| <b>Tamper Mode</b>                         | Toggles between normal operation and the tamper mode for Wiegand output only. Output 8 data bits approximately once every minute.  | Tamper Mode is disabled    | Tamper Mode is enabled    |
| <b>MAXSecure™ Code</b>                     | Locks the reader to a specific MAXSecure code setting. In the MAXSecure mode, the reader will read and transmit credential data only from those credentials that provide a security handshake code that matches the specific security handshake code provided to the reader by the MAXSecure control card. | 3-beeps when finished      |                           |
| <b>Installation Tools</b>                  |  |                            |                           |
| <b>Data Line Test</b>                      | Initiates a test verifying the reader's ability to transmit data to the access panel, as well as verifying the continuity of the data connecting the reader to the access panel.   | Data Line Test is disabled | Data Line Test is enabled |
| <b>Factory Default</b>                     | Restores reader to factory default settings.   | 3-beeps when finished      |                           |
| <b>Hold Mode</b>                           | Toggles between normal operation and the hold line mode. A reader in the hold line mode will output the data of the last card read when the hold line is pulled low.   | Hold Mode is disabled      | Hold Mode is enabled      |
| <b>LED Mode</b>                            | Toggles the reader between single line and dual line reader LED operation. Single line LED operation is the factory default setting.   | 1 line LED control         | 2 line LED control        |
| <b>Non-Stop Output</b>                     | Toggles the reader between normal operation and outputting data approximately once per second, as long as the credential is within the reader's read range.  | Non-Stop is disabled       | Non-Stop is enabled       |

# Pyramid Series Control Cards

| Control Card                       | Description   | 1 Beep                 | 2 Beeps               |
|------------------------------------|---|------------------------|-----------------------|
| <b>Field Customization</b>         |   |                        |                       |
| <b>Beeper Suppress</b>             | Toggles the reader between normal operation and not beeping during "Beep-n-Flash". Normally the reader will automatically sound the beeper after card presentation.       | QuickBeep is disabled  | QuickBeep is enabled  |
| <b>LED Suppress</b>                | Toggles the reader between normal operation and not flashing its LED during "Beep-N-Flash". Normally the reader will automatically flash its LED after card presentation. | QuickFlash is disabled | QuickFlash is enabled |
| <b>Magnetic Stripe Format Lock</b> | Locks the reader data transfer format to magnetic stripe format only. Normally the reader will transfer data in the format of the presented credential.                   | N/A                    | Locks to Magstripe    |
| <b>Wiegand Format Lock</b>         | Locks the reader data transfer format to Wiegand format only. Normally the reader will transfer data in the format of the presented credential.                           | N/A                    | Locks to Wiegand      |
| <b>Wiegand Keypad Data Mode</b>    | Toggles between 8-bit burst and 26-bit Wiegand data transmission modes (this control card is only used with the proximity reader and keypad devices).                     | 4-beeps special mode   |                       |



# Pyramid Series Control Cards

## 1.0 Installation Tools

Installation Tool Control Cards are used to configure or test the reader during installation.

- Data Line Test
- Factory Default
- Hold Mode
- LED Mode
- Non-Stop Output

### 1.1 Data Line Test Control Card

Pyramid Series Readers have an internal data line test to verify readers are able to communicate with an access panel. This tests both reader function, as well as the continuity of the data cable. In this test the reader toggles the Wiegand data lines between high and low states - from 0 VDC to +5 VDC. Data '0' is high when Data 1 is low, and Data '0' is in the low when Data '1' is high. This toggling occurs at a slow rate so that it can be viewed on a Digital Volt Meter (DVM).

The reader uses a Data Line Test control card to start or stop the data line test. To start the test, simply present the Data Line Test control card to the reader. The reader will beep twice and the LED will flash indicating the control card was recognized and the test has started. To end the test, present the control card again or present any Pyramid Series credential.

#### Data Line Test

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Data Line Test control card to the reader. The reader beeps twice and the LED flashes once to indicate the card has been read and the test has begun.
4. Set the DVM to a range that can safely view +5 VDC.
5. At the access panel, connect the negative lead of the DVM to access panel ground.
6. Connect the positive lead of the DVM to the Wiegand Data 0 line.
7. Monitor the DVM. If the reader is wired correctly and is operating correctly, the DVM will toggle between 0 VDC and +5 VDC.
8. Now connect the positive lead of the DVM to the Wiegand Data 1 line.
9. Again monitor the DVM. If the reader is wired correctly and is operating correctly, the DVM will toggle between 0 VDC and +5 VDC.
10. Present the Data Line Test control card or any Pyramid Series credential to the reader. The reader beeps once and the LED flashes once to indicate the card has been read and the test has ended. The reader now returns to normal operation. If a proximity card is presented to end the test, the card data is passed to the host access panel for access consideration.

# Pyramid Series Control Cards

## 1.2 Factory Default Control Card

Pyramid Series readers are normally configured with intersettings in a factory default condition.

The default settings may be configured by means of the Factory Default Control Card.

To return to the default mode:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader and then verify the reader is powered on.
3. Present the Factory Default control card to the reader.
4. From the card's special code the reader recognizes that the card is the Factory Default control card. The reader does not send any data to the access panel.
5. The reader beeps three times and the red LED flashes on to indicate the card is recognized.
6. The reader is reset to original factory default condition.
7. There are NO other signs or notifications that this change has been made.

**Table 1: Factory Default Reader Values**

| Function             | State    |
|----------------------|----------|
| LED Control          | 1-line   |
| QuickFlash           | Enabled  |
| QuickBeep            | Enabled  |
| Data Line Test       | Disabled |
| Output Lock          | Disabled |
| Non-Stop Output      | Disabled |
| Tamper Mode          | Disabled |
| fleaPower            | Disabled |
| Output Hold Function | Disabled |

# Pyramid Series Control Cards

## 1.3 Hold Line Control Card

The factory default setting for Pyramid Readers is for the reader to read and transmit data to the access panel once for each individual credential presentation. This is very similar in operation to a typical swipe reader, such that the data is transmitted only once per swipe.

However, the reader can be configured so that the reader will store the data of the last card or tag read. Data is then transmitted when requested by the access controller. This request is made with the Hold Line. In operation the reader stores the card data providing the hold line is low. Card data is sent to the access controller only when the hold line is released and goes high. Pulled low again, the reader will store the data of the last card read.

It is important to note that the hold line utilizes the blue control line. In normal operation the blue line controls the audio beeper tone. When in the Hold line mode, the beeper will sound at card read, but is not controllable by the access controller.

### To lock in Hold Line mode:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Hold Line control card to the reader.
4. From the card's special code the reader recognizes that the card is the Hold Line control card. The reader does not send any card data to the access panel.
5. The reader beeps twice and the red LED flashes once to indicate the card is recognized.
6. There are NO other signs or notifications that this change has been made.

### To return to the default mode:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Hold Line control card to the reader.
4. From the card's special code the reader recognizes that the card is the Hold Line control card. The reader does not send any card data to the access panel.
5. The reader beeps once and the red LED flashes once to indicate the card is recognized.
6. There are NO other signs or notifications that this change has been made.

# Pyramid Series Control Cards

## 1.4 LED Mode Control Card

Pyramid Series readers can work with access panels configured to drive either single or dual LED control line devices. This refers to the access panel's ability to drive a reader's LED with either one control line wire or two control line wires.

Single line LED control is the default configuration for Pyramid Series Readers. In Single Line LED Control the LED is red when the control line is high, commonly indicating the door is locked. The LED turns green when the line is low; as such indicating the door is unlocked. The LED turns amber when the line is toggled at a 1 KHz rate. There is no LED off state.

In Dual Line LED Control, the red and green LEDs each have separate control lines. If both lines are pulled low at the same time, the LED turns amber. If both lines are high the LED turns off.

The reader uses an LED Mode control card to toggle the reader between single and dual line LED control modes. To change between modes, simply present the LED Mode control card to the reader. The reader will beep and the LED will flash indicating the control card was recognized and the mode has been changed, but no data is sent to the access panel.

To lock in the dual LED mode of operation - If the access panel is designed for dual LED control line operation:

1. Verify the reader is correctly wired to the access panel: the reader's brown wire to the access panel's red LED control line, the reader's orange wire to the access panel's green LED control line.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the LED Mode control card to the reader.
4. From the card's special code the reader recognizes that the card is the LED Mode control card. The reader does not send any card data to the access panel.
5. The reader beeps twice and the red LED flashes to indicate the card is recognized.
6. The reader toggles from single LED mode operation to dual LED mode operation.
7. There are NO other signs or notifications that this change has been made.

To return to the default mode:

1. Verify the reader is correctly wired to the access panel: the reader's brown wire to the access panel's LED control line, the reader's orange wire is disconnected.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the LED Mode control card to the reader.
4. From the card's special code the reader recognizes that the card is the LED Mode control card. The reader does not send any card data to the access panel.
5. The reader beeps once and the red LED flashes to indicate the card is recognized.
6. The reader toggles from dual LED mode operation to single LED mode operation.
7. There are NO other signs or notifications that this change has been made.

# Pyramid Series Control Cards

## 1.5 Non-Stop Output Control Card

The factory default setting for Pyramid Readers is for a reader to transmit data to the access panel once for each individual credential presentation. This is very similar in operation to a typical swipe reader, such that the data is transmitted only once per swipe. However, the reader can be configured so that the reader outputs the data of the presented credential as long as the credential is within the reader's read range. When in the non-stop output mode, the reader's LED will flash once when a credential is first presented and will continue to flash at a rate of approximately once per second. Each flash indicates the credential's data has been transmitted to the access panel. This continues as long as the credential is within the reader's read range.

The reader uses a "control" card, presented to the reader, to change from transmitting data once for each credential presentation, to transmitting data approximately once per second as long as the credential is within the reader's read range.

### To lock in Non-Stop Output mode:

1. Verify the reader is correctly wired to the panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Non-Stop Output control card to the reader.
4. From the card's special code, the reader recognizes that the card is the Non-Stop Output control card. The reader does not send any card data to the access panel.
5. The reader beeps two times and the red LED flashes once to indicate the card is recognized.
6. The reader is now in Non-Stop Output mode.
7. There are NO other signs or notifications that this change has been made.

### To return to the default mode:

1. Verify the reader is correctly wired to the panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Non-Stop Output control card to the reader.
4. From the card's special code, the reader recognizes that the card is the Non-Stop Output control card. The reader does not send any card data to the access panel.
5. The reader beeps once and the red LED flashes once to indicate the card is recognized.
6. The reader is now reverted to default mode.
7. There are NO other signs or notifications that this change has been made.

### ***Important Notice***

*If an access panel activates the reader's beeper while the reader is in Non-Stop Output mode, the rate at which the reader transmits credential data to the access panel may be affected. This is due to the amount of time required by the reader to process the beeper command.*

# Pyramid Series Control Cards

## 2.0 Field Customization

Field Customization Control Cards allow you to configure the reader for your specific needs.

- Beeper Suppress
- LED Suppress
- Magnetic Stripe Format Lock
- Wiegand Format Lock
- Wiegand Keypad Data Mode

### 2.1 Beeper Suppress Control Card

When a cardholder presents a card to a Pyramid Series Reader, the reader beeps and flashes to acknowledge the card. This is known as "Beep-N-Flash." The Pyramid Series Reader can be configured so that the "beep" is suppressed during this Beep-N-Flash period. The access panel can still activate the reader's beeper, even when the reader is in the Beeper Suppressed mode, by pulling the blue beeper control line low.

The reader uses a Beeper Suppress control card to toggle the reader's beeper on and off. The default setting for the reader is for the beeper to beep to acknowledge card presentation. To change between modes, simply present the Beeper Suppress control card to the reader. The reader will beep and the LED will flash indicating the control card was recognized and the mode has been changed, but no data is sent to the access panel.

#### To toggle from beeper enabled mode to beeper suppressed mode:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Beeper Suppress control card to the reader.
4. From the card's special code the reader recognizes that the card is the Beeper Suppress control card. The reader does not send any card data to the access panel.
5. The reader beeps once and the red LED flashes once to indicate the card is recognized.
6. The reader toggles from beeper enabled operation to beeper suppressed operation.
7. There are NO other signs or notifications that this change has been made.

#### To return to the default mode:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Beeper Suppress control card to the reader.
4. From the card's special code the reader recognizes that the card is the Beeper Suppress control card. The reader does not send any card data to the access panel.
5. The reader beeps twice and the red LED flashes once to indicate the card is recognized.
6. The reader toggles from beeper suppressed operation to beeper enabled operation.
7. There are NO other signs or notifications that this change has been made.



# Pyramid Series Control Cards

## 2.2 LED Suppress Control Card

When a cardholder presents a card to the Pyramid Series Reader, the reader beeps and flashes to acknowledge the card. This is known as "Beep-N-Flash." The Pyramid Series Reader can be configured so that the LED "flash" is suppressed during the Beep-N-Flash period. The access panel can still activate the reader's LED, even when the reader is in the LED muted mode, by pulling the LED control line low.

The reader uses an LED Suppress control card to toggle the reader's LED flash feature on and off. The default setting for the reader is for the LED to flash to acknowledge card presentation. To change between modes, simply present the LED Suppress control card to the reader. The reader will beep and the LED will flash indicating the control card was recognized and the mode has been changed, but no data is sent to the access panel.

### To toggle from LED flash enabled mode to LED flash suppressed mode:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the LED Suppress control card to the reader.
4. From the card's special code the reader recognizes that the card is the LED Suppress control card. The reader does not send any card data to the access panel.
5. The reader beeps once and the red LED flashes once to indicate the card is recognized.
6. The reader toggles from LED flash enabled operation to LED flash suppressed operation.
7. There are NO other signs or notifications that this change has been made.

### To return to the default mode:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the LED Suppress control card to the reader.
4. From the card's special code the reader recognizes that the card is the LED Suppress control card. The reader does not send any card data to the access panel.
5. The reader beeps twice and the red LED flashes once to indicate the card is recognized.
6. The reader toggles from LED flash suppressed operation to LED flash enabled operation.
7. There are NO other signs or notifications that this change has been made.

# Pyramid Series Control Cards

## 2.3 Magnetic Stripe Format Lock Control Card

The factory default setting for Pyramid Readers is for a reader to transmit data in the format of the presented credential (either magnetic stripe or Wiegand). However, the reader can be “locked” so that regardless of the format of the presented credential, the data transmitted to the access panel is always in magnetic stripe format (ABA Track-II, per Dorado's defacto industry standard - using the clock and data line data transfer method).

### **Important Notice**

*If the reader is configured to be HID compatible and is reading any HID formatted card (including HID's Clock and Data format), the data transmitted will be in Wiegand format. Pyramid Series credentials presented to the reader will continue to be outputted in Magnetic Stripe format.*

The reader uses a “control” card, presented to the reader, to change from transmitting data in the format of the presented credential or from transmitting in Wiegand format only to lock in transmitting in magnetic stripe format only.

### To lock in transmitting in magnetic stripe format only:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Magnetic Stripe Format Lock control card to the reader.
4. From the card's special code the reader recognizes that the card is the Magnetic Stripe Format Lock control card. The reader does not send any card data to the access panel.
5. The red LED flashes once to indicate the card is recognized.
6. The beeper beeps two times to indicate the reader has switched to magnetic stripe format only mode.
7. There are NO other signs or notifications that this change has been made.

### To return to the default mode:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Factory Default Card to the reader.
4. From the card's special code the reader recognizes that the card is the Factory Default Control Card. The reader does not send any card data to the access panel.
5. The red LED flashes once to indicate the card is recognized.
6. The beeper provides a “victory” beep sequence to indicate the reader has been reset to the factory default settings.
7. There are NO other signs or notifications that this change has been made.

### **Important Notice**

*Presentation of the Factory Default Card will reset all customized setting to the original factory default. Following a return to the default mode, it is necessary to update all custom settings.*

# Pyramid Series Control Cards

## 2.4 Wiegand Format Lock Control Card

The factory default setting for Pyramid Readers is for a reader to transmit data in the format of the presented credential (either magnetic stripe or Wiegand). However, the reader can be "locked" so that regardless of the format of the presented credential, the data transmitted to the access panel is always in Wiegand format (using the Data 1/Data 0 data transfer method).

The reader uses a "control" card, presented to the reader, to change from transmitting data in the format of the presented credential or from transmitting in magnetic stripe format only to lock in transmitting in Wiegand format only.

### To lock in transmitting in Wiegand format only:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Wiegand Format Lock control card to the reader.
4. From the card's special code the reader recognizes that the card is the Wiegand Format Lock control card. The reader does not send any card data to the access panel.
5. The red LED flashes once to indicate the card is recognized.
6. The reader beeps twice to indicate the reader has switched to Wiegand format only mode.
7. There are NO other signs or notifications that this change has been made.

### To return to the default mode:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Factory Default Card to the reader.
4. From the card's special code the reader recognizes that the card is the Factory Default Control Card. The reader does not send any card data to the access panel.
5. The red LED flashes once to indicate the card is recognized.
6. The beeper provides a "victory" beep sequence to indicate the reader has been reset to the factory default settings.
7. There are NO other signs or notifications that this change has been made.

### ***Important Notice***

*Presentation of the Factory Default Card will reset all customized setting to the original factory default. Following a return to the default mode, it is necessary to update all custom settings.*

# Pyramid Series Control Cards

## 2.5 Wiegand Keypad Data Mode Control Card

The factory default Wiegand data transmission setting for the keypad portion of the P-600 Rocky Proximity Reader and Keypad is 8-bit burst, but the keypad is capable of transmitting data in Wiegand 26-bit mode. The keypad uses a "control" card, presented to the reader, to change between the 8-bit burst and 26-bit -Wiegand data modes. Refer to the Pyramid Series Wiegand Data Format Reference Document (P/N 01846-002).

### ***Important Note***

*The keypad portion of the P-600 outputs data only in a Wiegand format, either the default 8-bit burst format or the optional 26-bit Wiegand format. When the reader portion of the P-600 is fixed in a magnetic stripe output mode, keypad operation is suppressed.*

Perform the following steps to lock the keypad for 26-bit mode operation:

1. Cycle power to the reader, and then verify the reader is powered on.
2. Present the Wiegand Data Mode control card to the reader. The reader beeps four times and then enters Site Code programming mode.
3. Enter the site code to be applied to the keypad. The site code may be set anywhere between 0 and 255 (one long beep is sounded if a site code greater than 255 is entered). The default is usually set at 0.
4. Press the "#" key to exit programming mode. The reader beeps four times to indicate programming mode has ended.

### ***Important Note***

*In 26-bit mode, you must press the # key to send data to the Host.*

Perform the following steps to return the keypad to 8-bit burst mode operation:

1. Cycle power to the reader, and then verify the reader is powered on.
2. Present the Wiegand Keypad Data Mode control card to the reader. The reader beeps four times and then enters Site Code programming mode.
3. Press the "#" key (if no site code information is entered the reader switches to 8-bit burst mode). The reader beeps four times to indicate programming mode has ended.

### ***Important Note***

*In 8-bit burst mode, each keystroke sends data to the Host.*

# Pyramid Series Control Cards

## 3.0 Advanced Pyramid Proximity Features

- fleaPower™
- MAXSecure™ Code
- Tamper Mode

### 3.1 fleaPower™ Low-Power Eco-Technology Control Card<sup>1</sup>

The factory default setting for Pyramid Readers is to operate at its normal power level. This power level is typically 50mA at 12 VDC, though it varies depending upon reader type and installation location. However, the power consumption of the reader can be modified such that it can operate at much lower power levels. Specifically the reader can be "locked" such that its operation is characterized by a current draw of less than 10mA (typical), depending upon the reader type.<sup>2</sup>

The reader uses a control card, presented to the reader, to change from operating at a normal power level to operating at in a low power eco-technology mode. This mode is known as "fleaPower". It is important to note that the reader's read speed, as well as its read range, may be affected.

To lock in the fleaPower low-power operation:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the fleaPower control card to the reader.
4. From the card's special code the reader recognizes that the card is the fleaPower control card. The reader does not send any card data to the access panel.
5. The reader beeps twice and the red LED flashes once to indicate the card is recognized.
6. Current consumption will drop by approximately 60%.
7. There are NO other signs or notifications that this change has been made.

To return to the default mode:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the fleaPower control card to the reader.
4. From the card's special code the reader recognizes that the card is the fleaPower control card. The reader does not send any card data to the access panel.
5. The reader beeps once and the red LED flashes once to indicate the card is recognized.
6. Current consumption will increase by approximately 60%.
7. There are NO other signs or notifications that this change has been made.

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1. fleaPower low-power eco-technology is Patent Pending worldwide.
  2. For lowest power consumption, operate at 5 VDC and switch to Dual LED Control Line mode, keeping the LED in the OFF state. Typical power consumption will average 5 mA, though this is dependent upon the reader.

# Pyramid Series Control Cards

## 3.2 MAXSecure™ Control Card

The factory default setting for Pyramid Series Readers is for the reader to read and transmit data to the access panel once for each individual credential presentation. This is very similar in operation to a typical swipe reader, such that the data is transmitted only once per swipe, independent of the data encoded on the card.

However, the reader can be configured so that the reader will read and output the data of the presented credential only if the MAXSecure security handshake code between the reader and the credential is correct. If the MAXSecure security handshake code between the reader and the credential is not correct, then the credential will not be read, resulting in no information being transmitted to the access panel.

In operation the reader uses a MAXSecure control card, presented to the reader, to change from the default mode of reading and transmitting data once for each credential presentation, to reading and then transmitting data only when the MAXSecure secure handshake code matches. Credentials without a matching secure handshake code will result in the reader not transmitting any card data.

The MAXSecure control card is printed with the individual security handshake code. There are literally thousands of unique MAXSecure security handshake codes available assuring security.

### To lock in to MAXSecure mode:

1. Verify the reader is correctly wired to the panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present a MAXSecure control card to the reader.
4. From the card's special code, the reader recognizes that the card is the MAXSecure control card. The reader does not send any card data to the access panel.
5. The reader beeps 3 times and the red LED flashes once to indicate the card is recognized.
6. The reader is now in MAXSecure mode. As such it will read only credentials that are formatted with the MAXSecure secure handshake code of the MAXSecure control card presented to the reader.
7. There are NO other signs or notifications that this change has been made.

### To return to the default mode:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Factory Default Card to the reader.
4. From the card's special code the reader recognizes that the card is the Factory Default Control Card. The reader does not send any card data to the access panel.
5. The red LED flashes once to indicate the card is recognized.
6. The beeper provides a "victory" beep sequence to indicate the reader has been reset to the factory default settings. The reader will now only read Pyramid cards with the default setting.
7. There are NO other signs or notifications that this change has been made.

### **Important Notice**

*Presentation of the Factory Default Card will reset all customized setting to the original factory default. Following a return to the default mode, it is necessary to update all custom settings.*

# Pyramid Series Control Cards

## 3.3 Tamper Mode Control Card

The factory default setting for Pyramid Readers is for the reader to output data only upon card or tag presentation. The reader can be configured to operate in tamper mode. A reader in tamper mode will output 8 data bits approximately once every sixty seconds.

The data transmitted by the reader in tamper mode is comprised of 8-bits in the following pattern "1 0 1 0 1 0 1 0." This unique output transmission allows the access controller to supervise and monitor the reader. Specifically, the reception of this pattern approximately once per minute informs the access controller that the reader is online, ready to read cards and tags.

Tamper mode functions in either Wiegand or magnetic stripe output format modes. In either case, the reader will output strictly the 8-bits of data.

### To lock in Tamper mode:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Tamper Mode control card to the reader.
4. From the card's special code the reader recognizes that the card is the Tamper Mode control card. The reader does not send any card data to the access panel.
5. The reader beeps twice and the red LED flashes once to indicate the card is recognized.
6. There are NO other signs or notifications that this change has been made.

### To return to the default mode:

1. Verify the reader is correctly wired to the access panel.
2. Cycle power to the reader, and then verify the reader is powered on.
3. Present the Tamper Mode control card to the reader.
4. From the card's special code the reader recognizes that the card is the Tamper Mode control card. The reader does not send any card data to the access panel.
5. The reader beeps once and the red LED flashes once to indicate the card is recognized.
6. There are NO other signs or notifications that this change has been made.

### ***Important Notice***

*The Tamper Mode is only available for the Wiegand data output.*