GE

NetworX

NetworX™ Series

NX-1710E Single Door Control

Installation and Startup Manual

Symbol Legend

Warning	Indicates a procedure, practice, condition, or statement that, if not strictly observed, could result in personal injury. * This symbol indicates electrical warnings and cautions.
Caution	Indicates a procedure, practice, condition, or statement that, if not strictly observed, could result in damage to or destruction of equipment or property. ** This symbol indicates general warnings and cautions.
Note	Indicates an essential or important procedure, instruction, condition, or statement.
Tip	Indicates a user tip. Provides helpful information that is not normally defined in regular use, but from an experienced user.
Enter	Indicates a key or button should be pressed to enter data.

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I.   GENERAL DESCRIPTION

The NetworX NX-1710E is a single door control module used to expand the capabilities of the NetworX control panels.

- Flash-based microprocessor for reprogramming ability via In-Circuit Serial Programming™ header

- +5 VDC and +12 VDC outputs

- 4-position dip switch which allows addressing of up to 16 modules on the NetworX bus

- Box tamper switch tied to tamper terminal

- One zone input to be connected to a door contact for monitoring the door zone.

- On-board relay with Normally Open, Normally Closed, and Common terminals for use in switching power on MagLocks or other door locking mechanisms

- 8Kb of non-volatile RAM for storing programming and card data

- Two sets of terminal inputs/outputs for interfacing with one or two Wiegand card readers:
    - o   1 buzzer and 2 LED outputs
    - o   1 tamper and 1 egress input
    - o   2-wire Wiegand bus interface.   ✍ Readers must be able to "speak" Wiegand.   The following are supported Weigand formats:
        - ✓   26-bit standard Weigand
        - ✓   27-bit Tecom ASC
        - ✓   35-bit HID Corporate 1000
        - ✓   40-bit with facility code (4001)
        - ✓   40-bit without facility code (4002)

II. BOARD LAYOUT

NetworX bus

LED is lit during normal operation.

Programmer

Dip Switches (see pg 7 for specifics.)

Caddx–Caddi Controls Inc.
NX1710
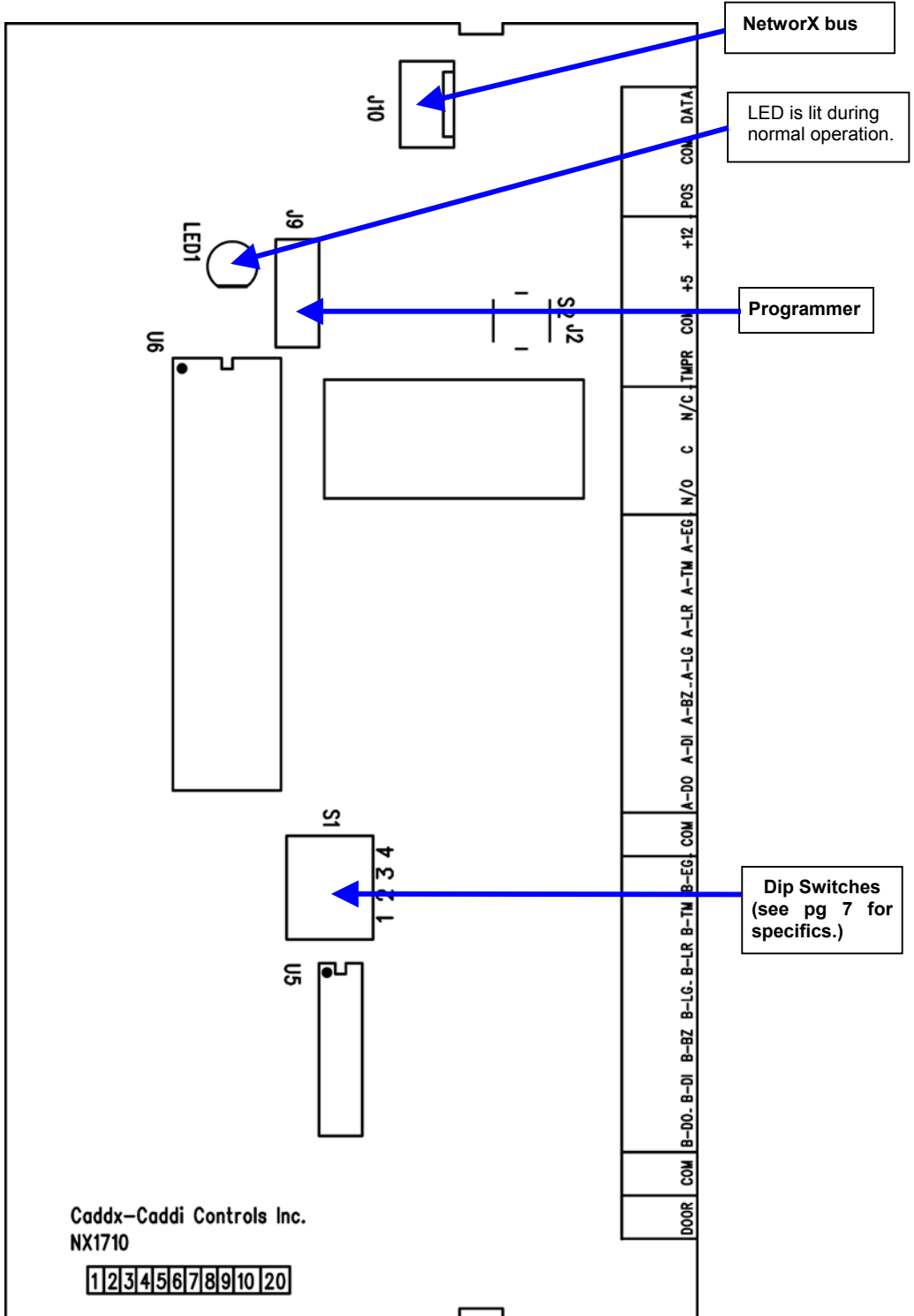
III. WIRING TERMINALS

To install the card reader, simply wire it into the system. Refer to the following wiring table for details.

✎ *For the purpose of these instructions, the term "door control" refers to the NX-1710E module, and the term "reader" refers to the specific card reader attached to the system.*

	DESCRIPTION	
DATA	Connect to the NetworX control panel **DATA** terminal. Data-signaling terminal to all the devices on the bus.	
COM	Connect to the NetworX control panel **COMMON** terminal. Supplies the common side of the power to the door control module.	
POS	Connect to NetworX control panel **AUX POWER +** terminal. Supplies power to the door control module.	
+12	Power to reader module, if required.	
+5	Power to reader module, if required.	
COM	Connect to common terminal of box tamper.	
TMPR	Box Tamper	
N/C	Normally closed relay contact to activate door strike.	**Rating**:
C	Closed relay contact to activate door strike.	5A 125, 277V AC
N/O	Normally open relay contact to activate door strike.	5A 30V DC
Reader "A" **A-EG**	Egress input. To use this feature, connect the normally open egress switch between this terminal and **COM**.	
A-TM	Tamper input (from Reader "A")	
A-LR	Red LED (LED2) control (to Reader "A"). Open collector output. If available, connect to LED control on reader.	
A-LG	Green LED (LED1)control (to Reader "A"). Open collector output. If available, connect to LED control on reader.	
A-BZ	Buzzer control (to Reader "A").	
A-D1	Wiegand Data 1 terminal (from Reader "A").	
A-D0	Wiegand Data 0 terminal (from Reader "A").	
COM	Common dry contact	
Reader "B" **B-EG**	Egress input. To use this feature, connect the normally open egress switch between this terminal and **COM**.	
B-RM	Tamper input (from Reader "B")	
B-LR	Red LED (LED2) control (to Reader "B"). Open collector output. If available, connect to LED control on reader.	
B-LG	Green LED (LED1) control (to Reader "B"). Open collector output. If available, connect to LED control on reader.	
B-BZ	Buzzer control (to Reader "B").	
B-D1	Wiegand Data 1 terminal (from Reader "B").	
B-D0	Wiegand Data 0 terminal (from Reader "B").	
COM	Common terminal.	
DOOR	Door contact (requires 3.3K end-of-line resistor). Connect	

IV. ENROLLING

The NetworX control panels have the ability to automatically find and store in memory the presence of all keypads, zone expanders, wireless receivers, output modules, and any other device on the keypad buss. This allows these devices to be supervised by the control panel. To enroll the devices, enter the Program Mode using the procedure outlined in the control panel Installation Manual. When the Program Mode is exited, the NX-8 control will automatically enroll the devices. The enrolling process takes about 12 seconds, during which time the Service LED will illuminate. User codes will not be accepted during the enrolling process. Once a module is enrolled, if it is not detected by the control, the Service LED will illuminate.

V.   ADDRESSING

The first thing that must be decided is the address of this particular relay/output module. This is the address that will be selected when programming the auxiliary devices. To set the addresses use the table below.   Refer to Table V-1 that follows for possible addresses.

✍ **The door control unit must be powered down and powered back up in order to read new or modified dip switch settings.**

Table V-1

Bus Address	Dip Switch Setting				Bus Address	Dip Switch Setting			
	1	2	3	4		1	2	3	4
128					136				ON
129	ON				137	ON			ON
130		ON			138		ON		ON
131	ON	ON			139	ON	ON		ON
132			ON		140			ON	ON
133	ON		ON		141	ON		ON	ON
134		ON	ON		142		ON	ON	ON
135	ON	ON	ON		143	ON	ON	ON	ON

VI.   PROGRAMMING

USING THE LED KEYPAD

ENTERING THE PROGRAM MODE

☞ ✱ ❽

· · · · · ·   Enters the Program Mode. *Stay*, *Chime*, *Exit*, *Bypass* & *Cancel* LEDS will flash.

☞ [Go To Program Code]

Factory Default is ❾❼❶❸

· · · · · ·   If the "Go To Program Code" is valid, the "Service" LED will flash and the five function LEDs will illuminate steady. You are now in the Program Mode and ready to select the module address.

ENTERING THE MODULE ADDRESS

Scan a card.

☞ ❶❷❾ #

(example only)

· · · · · ·   Enter the module address. Refer to Table V-1 for the address.
The Armed LED will illuminate while it is waiting for a programming location to be entered.

PROGRAMMING A LOCATION

✍ *If an attempt is made to program an invalid entry for a particular segment, the keypad sounder will emit a triple error beep (beep, beep, beep), and remain in that segment awaiting a valid entry.*

To Enter a Location:

☞ [location] #

· · · · · ·   The Armed LED will flash. If the location is valid, the "Armed" LED will extinguish, the "Ready" LED will illuminate, and the zone LED's will show the data for the first segment of this location.

To Change Location Data:

☞ [changed data]

· · · · · · The "Ready" LED will flash to indicate a data change in process and will continue until the data is saved.

☞ ✱

· · · · · · The new data is saved.
The keypad will increment and display the next segment's data.

NOTE: Repeat these steps until the last segment is reached.

To Exit a Location:

☞ #

· · · · · · Exits from this location. The "Ready" LED will extinguish. The "Armed" LED will illuminate waiting for a new programming location to be entered.

To Review The Data:

☞ [location] #

· · · · · · The Armed LED will flash. If the location is valid, the "Armed" LED will extinguish, the "Ready" LED will illuminate, and the zone LED's will show the data for the first segment of this location.

☞ ✱

· · · · · · **(Do not enter data.)**

The next segment is displayed. Each time ✱ is pressed, the data of the next segment will be displayed for review.

Shortcuts: ☞ 🔥 Previous location.

☞ ➕ Same location.

☞ 🛡 Next sequential location.

EXITING THE PROGRAM MODE:

☞ EXIT EXIT

· · · · · · Exits this programming level.

USING THE LCD KEYPAD

All steps required for programming are the same as the aforementioned LED keypad. The LCD keypad display will prompt you for the data required. While in the programming mode, and not in a location, the number in parenthesis is the location you were previously changing. For example, if the display reads "Enter location, then # (5)", it is reminding you that location 5 was the last location you programmed. In feature selection data, the numbers of the enabled features will be displayed. The features **not** enabled will display a hyphen (-).

PROGRAMMING DATA TYPES

a) **Numerical Data**
   Numerical data can take on values from 0-255 or 0-15 depending on the segment size.
b) **Feature Selection**
   Feature selection data is used to turn features on or off.

VII.   USER CARDS

Adding and de-activating users is done through a combination of entering information at the keypad and scanning cards. Before a card can be entered, one reader on the system must be programmed with User Card Programming enabled (Location 3, Segment 1, Option 1, page 14).

☝ It is recommended that only **one** reader on the system be enabled to modify user cards and that this reader be located near a keypad. This reader will transfer information to all other readers in the system once programming is finished.

Once a reader is enabled to modify users, it must be placed into one of the following five modes:
> **1)** *Add One User*
> **2)** *Add Multiple Users w/ Auto-Increment*
> **3)** *Activate One User*
> **4)** *De-Activate One User*
> **5)** *Delete/Reset One User.*

Modifying users on a card reader is similar to modifying user codes at a keypad.

> ✎ *Must be a master user in order to modify user card information*.

ENTER USER PROGRAMMING

☞ ✱ ❺ · · · · · · Accesses Code Programming

☞ [master code] · · · · · · If the code is valid, the Ready LED will flash. User Number 2 is used to program user cards, so…
Factory Default is ❶❷❸❹

☞ ❶ ❷ if control is an NX-4, NX-6, or NX-8 · · · · · · Unit is now ready for you to choose one of the User Card Programming modes (as if user code 2):

☞ ❶ ❶ ❷ if control is an NX-8E
- *Add One User*
- *Add Multiple Users (w/Auto-Increment)*
- *Activate Single User*
- *De-activate One User*
- *Delete / Reset One User*

IMPORTANT NOTES
Adding or de-activating user cards from a reader will cause the code for User Number 2 to become invalid. Therefore, it will need to be re-entered after all user cards are programmed into the readers.

By default, user cards are added and activated. In order to add a user card and de-activate it at the same time, scan and hold the card to be added until two beeps are sounded at the reader.

ADDING ONE USER

☞ [STAY] · · · · · · Accesses Activation mode

☞ [3-digit user number] · · · · · · If a valid user number is entered, LED1 (Green) on any enabled readers will begin to flash.
Example: ❶❷❹ if 4-digit user code or ❶❶❶❷❹ if 6-digit

Scan the card designated for the user entered in the previous step. · · · · · · If the user card is not already in the system, it will be added and mapped to the entered user number and LED1 (Green) will continue flashing indicating that the next user card can be scanned for the next user number.
If the card is already in the system, the reader will triple beep and LED1 (Green) will continue flashing; the user number is not incremented in this case.

Continue scanning user cards until the desired number of cards has been added. · · · · · · After about 30 seconds without a card being scanned, all the readers in the system will be updated with the new user card information.

ADDING MULTIPLE USERS WITH AUTO-INCREMENT

☞ [CANCEL]   · · · · · ·   Accesses Activation mode

☞ [3-digit user number]   · · · · · ·   If a valid user number is entered, LED1
                                                             (Green) on any enabled readers will begin
   Example: ❶❷❹ if 4-digit user code   to flash.
   or ⓿⓿❶❷❹ if 6-digit

Scan the card designated for the user   · · · · · ·   If the user card is not already in the
entered in the previous step.   system, it will be added and mapped to
                                                             the entered user number and LED1
                                                             (Green) will continue flashing indicating
                                                             that the next user card can be scanned for
                                                             the next user number.
                                                             If the card is already in the system, the
                                                             reader will triple beep and LED1 (Green)
                                                             will continue flashing; the user number is
                                                             not incremented in this case.

Continue scanning user cards until the   · · · · · ·   After about 30 seconds without a card being
desired number of cards has been added.   scanned, all the readers in the system will
                                                             be updated with the new user card
   information.

IMPORTANT NOTE
*Activating / De-activating / Resetting Users -- If User Number 0 is entered, the desired
function will be performed on the user associated with the card scanned.*

ACTIVATE ONE USER (SINGLE USER)

☞ [CHIME]   · · · · · ·   Accesses Activation mode

☞ [3-digit user number]   · · · · · ·   If a valid user number is entered, LED1
                                                             (Green) on any enabled readers will begin
   Example: ❶❷❹ if 4-digit user code   to flash.
   or ⓿⓿❶❷❹ if 6-digit

Scan any card.   · · · · · ·   The card information for the user entered
                                                             in the previous step will be activated, and
                                                             LED1 (Green) will stop flashing. After
                                                             about 30 seconds, all the readers in the
                                                             system will be updated.

DE-ACTIVATE ONE USER

☞ [BYPASS]   · · · · · ·   Accesses De-activation mode

☞ [3-digit user number]   · · · · · ·   If a valid user number is entered, LED1
                                                             (Green) on any enabled readers will begin
   Example: ❶❷❹ if 4-digit user code   to flash.
   or ⓿⓿❶❷❹ if 6-digit

Scan any card   · · · · · ·   The card information for the user entered
                                                             in the previous step will be cleared, and
                                                             LED1 (Green) will stop flashing. After
                                                             about 30 seconds, all the readers in the
                                                             system will be updated.

<table>
<tr><td>

DELETE / RESET ONE USER

☞ [EXIT]

☞ [3-digit user number]

    Example: ❶❷❹ if 4-digit user code

    or ❶❶❶❷❹ if 6-digit

Scan any card

</td><td>

✍ *If an individual keeps the card, it can still be deleted.*

· · · · · ·   Accesses De-activation mode

· · · · · ·   If a valid user number is entered, LED1 (Green) on any enabled readers will begin to flash.

· · · · · ·   The card information for the user entered in the previous step will be cleared, and LED1 (Green) will stop flashing. After about 30 seconds, all the readers in the system will be updated.

</td></tr>
</table>

VIII. PROGRAMMING LOCATIONS

✎ **For the purpose of these instructions, the term "door control" refers to the NX-1710E module, and the term "reader" refers to the specific card reader attached to the system.**

LOCATION 0   READER "A" SCAN FUNCTIONS & OPTIONS

(8 segments of binary data) Location 0 is used to select the particular function(s) that are activated when a card is scanned at Reader "A". More than one function may be selected. If more than one function is selected, they will execute in order from function 1 to function 8.

    ✍ Functions 1-6 will be performed based on the user's authority as programmed by the [✱] [6] function (refer to keypad user manual).

Segment 1   Single Scan Function
Program the functions that are performed when a card is scanned {one beep}.

      LED1 - "On" to send Code Entry function to the control panel.
      LED2 - "On" to activate the Armed Away mode.
      LED3 - "On" to activate the Armed Stay mode.
      LED4 - "On" to send the Disarm function to the control panel.
      LED5 - "On" to send Auxiliary Function #1 to the control panel.
      LED6 - "On" to send Auxiliary Function #2 to the control panel.
      LED7 - "On" to broadcast an X-10 function (see Location 241 for programming).
      LED8 - *"On" to send a Request-to-Exit (RTE); and to activate the onboard relay.* (Default is "On")

Segment 2   Triple Scan Function
Program the functions that are performed when a card is scanned three times {three beeps}. The descriptions of the options are the same as for Single Scan Function (Segment 1 above). Default is **1.**

Segment 3   Reader Options:
> LED1 -   "On" if tamper is inverted.
> LED2 -   "On" if tamper is enabled.
> LED3 -   "On" if reader buzzer is to follow typical keypad buzzing.
> LED4 -   ***"On" if reader automatically issues a beep when the card is scanned.*** Enabling this option prevents the door control from issuing another beep. (Default is "On")
> LED5–8   Reserved.

Segment 4   LED1 (Green) Options:
> LED1 -   ***"On" to follow Ready status of system.*** (Default is "On")
> LED2 -   ***"On" to toggle with the relay / open collector output activation.*** (Default is "On")
> LED3 -   "On" if inverted.
> LED4–8   Reserved.

Segment 5   LED2 (Red) Options:
> LED1 -   ***"On" to follow Armed status of system.*** (Default is "On")
> LED2 -   "On" to toggle with the relay / open collector output activation.
> LED3 -   "On" if inverted.
> LED4–8   Reserved.

Segments 6 – 8 Reserved

LOCATION 1   READER "B" SCAN FUNCTIONS & OPTIONS

(8 segments of binary data) Location 1 is used to select the particular function(s) that are activated when a card is scanned at Reader "B". More than one function may be selected. If more than one function is selected, they will execute in order from function 1 to function 8.

> ↳ Functions 1-6 will be performed based on the user's authority as programmed by the [✱] [6] function (refer to keypad user manual).

Segment 1   Single Scan Function
Program the functions that are performed when a card is scanned {one beep}.

> LED1 -   "On" to send Code Entry function to the control panel.
> LED2 -   "On" to activate the Armed Away mode.
> LED3 -   "On" to activate the Armed Stay mode.
> LED4 -   "On" to send the Disarm function to the control panel.
> LED5 -   "On" to send Auxiliary Function #1 to the control panel.
> LED6 -   "On" to send Auxiliary Function #2 to the control panel.
> LED7 -   "On" to broadcast an X-10 function (see Location 241 for programming).
> LED8 -   ***"On" to send a Request-to-Exit (RTE); and to activate the onboard relay.*** (Default is "On")

Segment 2   Triple Scan Function
Program the functions that are performed when a card is scanned three times {three beeps}. The descriptions of the options are the same as for Single Scan Function (Segment 1 above). Default is **1.**

Segment 3   Reader Options:
> LED1 -   "On" if tamper is inverted.
> LED2 -   "On" if tamper is enabled.
> LED3 -   "On" if reader buzzer is to follow typical keypad buzzing.
> LED4 -   ***"On" if reader automatically issues a beep when the card is scanned.*** Enabling this option prevents the door control from issuing another beep.   (Default is "On")
> LED5–8   Reserved.

Segment 4   LED1 (Green) Options:
> LED1 -   *"On" to follow Ready status of system. (Default is "On")*
> LED2 -   *"On" to toggle with the relay / open collector output activation. (Default is "On")*
> LED3 -   "On" if inverted.
> LED4–8   Reserved.

Segment 5   LED2 (Red) Options:
> LED1 -   *"On" to follow Armed status of system. (Default is "On")*
> LED2 -   "On" to toggle with the relay / open collector output activation.
> LED3 -   "On" if inverted.
> LED4–8   Reserved.

Segments 6 – 8 Reserved

LOCATION 2   PROGRAMMING THE X-10 ADDRESS FOR THE SCAN FUNCTIONS

(6 segments of numerical data)

Segment 1   Module Number
Program a number from 0 -15 to represent the corresponding X-10 *Module Number* from the following table.
Default is **0**.

Module	*1*	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Seg 1	*0*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Segment 2   House Code
Program a number from 0-15 to represent the corresponding X-10 *House code* from the following table. Default
is **0**.

X-10 ADDRESS CODES			
0=A	4=E	8=I	12=M
1=B	5=F	9=J	13=N
2=C	6=G	10=K	14=O
3=D	7=H	11=L	15=P

Segment 3   Reader "A" Single Scan Function
Program the X-10 function that is performed when a card is scanned {one beep} at Reader "A". This location
only needs to be programmed if Location 0, Segment 1, Option 7 is set. Use the following table. Default is **2**.

Function #	Function performed	Function #	Function performed
0	All units off	4	Dim
1	All lights on	5	Bright
2	*On*	6	All lights off
3	Off	All others	Reserved

Segment 4   Reader "A" Triple Scan Function
Program the X-10 function that is performed when a card is scanned three times {three beeps} at Reader "A".
The descriptions of the function codes are the same as for Single Beep Scan Function. This location only needs
to be programmed if Location 0, Segment 2, Option 7 is set. Use the above table. Default is **3**.

Segment 5   Reader "B" Single Scan Function
Program the X-10 function that is performed when a card is scanned {one beep} at Reader "B". This location
only needs to be programmed if Location 0, Segment 1, Option 7 is set. Use the following table. Default is **2**.

Segment 6   Reader "B" Triple Scan Function
Program the X-10 function that is performed when a card is scanned three times {three beeps} at Reader "B".
The descriptions of the function codes are the same as for Single Beep Scan Function. This location only needs
to be programmed if Location 0, Segment 2, Option 7 is set. Use the above table. Default is **3**.

LOCATION 3   PROGRAMMING THE OPTIONS AND DOOR CONTROL PARTITIONS

(4 segments of binary data)

Segment 1   Unit Options:
LED1 -   "On" if door control module is enabled for User Card Programming.
LED2 -   "On" if tamper is enabled.
LED3 -   "On" if disabling on-board zone.
LED4 -   "On" if reader is 40-bit with facility code format (4001).
 - Set if reader is CASI 9xx/840/845
 - Clear if Smart Reader (820/825) or Dual Tech Reader (1000/1010)
LED5 -   "On" if an RTE from a scanned card is to be logged as Code Entry.
LED6 -   "On" if an RTE from a zone or the egress input is logged as Code Entry.
LED7–8   Reserved.

Segment 2   Door Options
LED1 -   "On" if locking mechanism is a Maglock or Drop Bolt.
LED2 -   "On" if access is allowed regardless of Armed status of the system.
LED3 -   "On" if the door is not to be latched unlocked during an open schedule.
LED4 -   "On" if onboard open collector output only triggers during an open schedule.
LED5 -   "On" if onboard open collector output only triggers during a close schedule.
LED6 -   "On" if Forced Entry Alarm is logged.
LED7 -   "On" if access allowed without an RTE.
LED8 -   Reserved.

Segment 3   Enabling the Schedules for the Onboard Open Collector Output:
LED1 -   ***"On" if driver follows Schedule 1.*** (Default is "On")
LED2 -   ***"On" if driver follows Schedule 2.*** (Default is "On")
LED3 -   ***"On" if driver follows Schedule 3.*** (Default is "On")
LED4 -   ***"On" if driver follows Schedule 4.*** (Default is "On")
LED5 -   ***"On" if driver follows Schedule 5.*** (Default is "On")
LED6 -   ***"On" if driver follows Schedule 6.*** (Default is "On")
LED7 -   ***"On" if driver follows Schedule 7.*** (Default is "On")
LED8 -   ***"On" if driver follows Schedule 8.*** (Default is "On")

Segment 4   Door Control Partition:
LED1 -   ***"On" if door control is in Partition 1.*** (Default is "On")
LED2 -   ***"On" if door control is in Partition 2.*** (Default is "On")
LED3 -   ***"On" if door control is in Partition 3.*** (Default is "On")
LED4 -   ***"On" if door control is in Partition 4.*** (Default is "On")
LED5 -   ***"On" if door control is in Partition 5.*** (Default is "On")
LED6 -   ***"On" if door control is in Partition 6.*** (Default is "On")
LED7 -   ***"On" if door control is in Partition 7.*** (Default is "On")
LED8 -   ***"On" if door control is in Partition 8.*** (Default is "On")

LOCATION 4   PROGRAMMING THE ZONES

(2 segments of numerical data)

Segment 1   Door Shunt Zone
Program the zone that will be monitored as a door for access control. This location must be programmed with a valid zone for monitored access control functions to work properly.   (Default is **0**)

✍ Additionally, this zone must be configured in the control panel as a Door Shunt zone by programming an unused Zone Type Characteristic in locations 111-169 (Seg 4, Opt 4).

Segment 2   Request To Exit (RTE) Zone
Program the zone that will be monitored to signal an RTE. If this segment is programmed with a valid zone and the zone is faulted, the reader will activate its onboard open collector output and send the RTE. (Default is **0**)

> ✍ Additionally, this zone must be configured in the control panel as an RTE zone by programming an unused Zone Type Characteristic in locations 111-169 (Seg 4, Opt 3).

LOCATION 5   PROGRAMMING THE VARIOUS READER TIMERS

(4 segment of numerical data)

Segment 1   Scan Time
Enter the amount of time required to hold a card between beeps to activate the functions programmed in Location 0, Segments 2 and 3. This timer is timed in 1/100-second increments from 0 to 2.55 seconds. (Default is **100** = 1 second).

Segment 2   Relay Active Time
Enter the amount of time the onboard open collector output is energized once activated. This timer is timed in 1-second increments from 0 to 255 seconds. (Default is **10** = 10 seconds).

Segment 3   Door Fault Warning Time
Enter the amount of time a monitored zone (see Location 4, Segment 1) must be faulted before sounding a warning (local buzzer). The door fault warning is timed in 1-second increments from 0 to 255 seconds. (Default is **30** = 30 seconds).

Segment 4   Door Fault Alarm Time
Enter the amount of time a monitored zone (see Location 4, Segment 1) must be faulted before sending an alarm condition to the control panel. The door fault alarm is timed in 1-second increments from 0 to 255 seconds. (Default is **60** = 60 seconds).

LOCATION 6   PROGRAMMING THE OPENING TIME FOR SCHEDULE 1

(2 segments of numerical data)

Segment 1   Program the hour of the opening time in 24-hour format. (Default is **8** = 8:00 AM)
Segment 2   Program the minutes after the hour of the opening time for Schedule 1. (Default is **0**)

LOCATION 7   PROGRAMMING THE CLOSING TIME FOR SCHEDULE 1

(2 segments of numerical data)

Segment 1   Program the hour of the closing time in 24-hour format. (Default is **20** = 8:00 PM)
Segment 2   Program the minutes after the hour of the closing time for Schedule 1. (Default is **0**)

LOCATION 8   PROGRAMMING THE DAYS FOR SCHEDULE 1

(1 segment of binary data)

LED1 =   "On" if schedule is active on Sunday.
LED2 =   *"On" if schedule is active on Monday.*
LED3 =   *"On" if schedule is active on Tuesday.*
LED4 =   *"On" if schedule is active on Wednesday.*
LED5 =   *"On" if schedule is active on Thursday.*
LED6 =   *"On" if schedule is active on Friday.*
LED7 =   "On" if schedule is active on Saturday.
LED8 =   "On" if schedule is disabled on holidays.

LOCATIONS 9 - 29   PROGRAMMING THE SCHEDULES 2 - 8

Locations 9 – 29 are used to program the opening times, closing times, and days for Schedules 2 - 8. Each schedule has three locations that are programmed with the same steps as Schedule 1 described previously. Refer to Schedule 1 (Locations 6 - 8 above) for specific instructions.

Location 9 – Opening Time for Schedule 2
Location 10 – Closing Time for Schedule 2
Location 11 – Days for Schedule 2
Location 12 – Opening Time for Schedule 3
Location 13 – Closing Time for Schedule 3
Location 14 – Days for Schedule 3
Location 15 – Opening Time for Schedule 4
Location 16 – Closing Time for Schedule 4
Location 17 – Days for Schedule 4
Location 18 – Opening Time for Schedule 5
Location 19 – Closing Time for Schedule 5
Location 20 – Days for Schedule 5

Location 21 – Opening Time for Schedule 6
Location 22 – Closing Time for Schedule 6
Location 23 – Days for Schedule 6
Location 24 – Opening Time for Schedule 7
Location 25 – Closing Time for Schedule 7
Location 26 – Days for Schedule 7
Location 27 – Opening Time for Schedule 8
Location 28 – Closing Time for Schedule 8
Location 29 – Days for Schedule 8

LOCATION 30   PROGRAMMING THE DATE OF HOLIDAYS IN JANUARY

(8 segments of numerical data) Program the day of the month in January that the Opening time in a schedule is suppressed. For example, if the opening should not occur on January 1, program a "1" in Segment 1. This feature can be repeated up to a maximum of 8 holidays per location (month). (Default is **No holidays**)

LOCATIONS –31 - 41   PROGRAMMING THE DATE OF HOLIDAYS FROM FEBRUARY TO DECEMBER

(8 segments of numerical data) Locations 31 - 41 are used to program the day of each month, from February to December, in which the Opening time in a schedule is suppressed. Each location will accommodate up to a maximum of 8 holidays, and programmed with the same steps as Location 30 described previously.

Location 31 – February holidays
Location 32 – March holidays
Location 33 – April holidays
Location 34 – May holidays
Location 35 – June holidays
Location 36 – July holidays

Location 37 – August holidays
Location 38 – September holidays
Location 39 – October holidays
Location 40 – November holidays
Location 41 – December holidays

LOCATION 42   ACTIVATION DATA FOR USER CARDS 1 - 120

(15 segments of binary data)

This location is used to select which user cards 1 through 120 are activated. If the LED is "on", the card is active. Each segment has 8 LEDs corresponding to the 8 possible user cards. Example: Segment 4, LED 2 indicates that user card 26 is active.

Segment 1 User Cards 1 - 8
Segment 2 User Cards 9 - 16
Segment 3 User Cards 17 - 24
Segment 4 User Cards 25 - 32
Segment 5 User Cards 33 - 40
Segment 6 User Cards 41 - 48
Segment 7 User Cards 49 - 56
Segment 8 User Cards 57 - 64

Segment 9 User Cards 65 - 72
Segment 10 User Cards 73 - 80
Segment 11 User Cards 81 - 88
Segment 12 User Cards 89 - 96
Segment 13 User Cards 97 - 104
Segment 14 User Cards 105 - 112
Segment 15 User Cards 113 - 120

LED1 = Card 1
LED2 = Card 2
LED3 = Card 3
LED4 = Card 4
LED5 = Card 5
LED6 = Card 6
LED7 = Card 7
LED8 = Card 8

LOCATION 43   PROGRAMMING ACTIVATION DATA FOR USER CARDS 121 - 240

(15 segments of binary data)

This location is used to select which user cards 121 through 240 are activated. If the LED is "on", the card is active. Each segment has 8 LEDs corresponding to the 8 possible user cards. Example: Segment 15, LED 8 indicates that user card 240 is active.

Segment 1	User Cards 121 - 128	**Segment 9**	User Cards 185 - 192
Segment 2	User Cards 129 - 136	**Segment 10**	User Cards 193 - 200
Segment 3	User Cards 137 - 144	**Segment 11**	User Cards 201 - 208
Segment 4	User Cards 145 - 152	**Segment 12**	User Cards 209 - 216
Segment 5	User Cards 153 - 160	**Segment 13**	User Cards 217 - 224
Segment 6	User Cards 161 - 168	**Segment 14**	User Cards 225 - 232
Segment 7	User Cards 169 – 176	**Segment 15**	User Cards 233 - 240
Segment 8	User Cards 177 - 184		

LED1 = Card 1
LED2 = Card 2
LED3 = Card 3
LED4 = Card 4
LED5 = Card 5
LED6 = Card 6
LED7 = Card 7
LED8 = Card 8

LOCATION 44   CODE ENTRY LOGGING PARTITION

(2 segments of numerical data)

This location programs the partition that is logged with the Code Entry message and sent when the following conditions are met:
  ➢ An RTE scan function is selected (Location 0, Segment 1/2, Option 8); and
  ➢ "RTE from a scanned card is to be logged as Code Entry" is enabled (Location 3, Segment 1, Option 5).
Entering a 0 (zero) will send the lowest valid partition of the reader. Entering 1-16 will send the entered value as the partition. (Default is **0**.)

Segment 1   Code Entry Logging Partition for Reader "A"
Segment 2   Code Entry Logging Partition for Reader "B"

SYSTEM NOTES

IX. PROGRAMMING WORKSHEETS

> ✎ **Tip:**
> Defaults are shown in **_bold italics_**.

SEG	DESCRIPTION
LOCATION 0 – READER "A" SCAN FUNCTIONS & OPTIONS	
1	SINGLE SCAN FUNCTION
	1 = "On" to send Code Entry function to the control panel.
	2 = "On" to activate the Armed Away mode.
	3 = "On" to activate the Armed Stay mode.
	4 = "On" to send the Disarm function to the control panel.
	5 = "On" to send Auxiliary Function #1 to the control panel.
	6 = "On" to send Auxiliary Function #2 to the control panel.
	7 = "On" to broadcast an X-10 function (see Location 2).
	8 = **_"On" to send a Request To Exit (RTE); and activate the onboard relay_**
2	TRIPLE SCAN FUNCTION
	1 = **_"On" to send Code Entry function to the control panel._**
	2 = "On" to activate the Armed Away mode.
	3 = "On" to activate the Armed Stay mode.
	4 = "On" to send the Disarm function to the control panel.
	5 = "On" to send Auxiliary Function #1 to the control panel.
	6 = "On" to send Auxiliary Function #2 to the control panel.
	7 = "On" to broadcast an X-10 function (see Loc 2).
	8 = "On" to send an RTE & activate the onboard open collector output.
3	READER OPTIONS
	1 = "On" if tamper is inverted.
	2 = "On" if tamper is enabled.
	3 = "On" if reader buzzer is to follow typical keypad buzzing.
	4 = **_"On" if reader automatically issues a beep when a card is scanned._**
	5-8 Reserved.
4	LED1 (GREEN) OPTIONS
	1 = **_"On" to follow Ready status of system._**
	2 = **_"On" to toggle with the relay / open collector output activation._**
	3 = "On" if inverted.
	5-8 Reserved.
5	LED2 (RED) OPTIONS
	1 = **_"On" to follow Armed status of system._**
	2 = "On" to toggle with the relay / open collector output activation.
	3 = "On" if inverted.
	4-8 Reserved.
6-8	RESERVED
LOCATION 1 – READER "B" SCAN FUNCTIONS & OPTIONS	
1	SINGLE SCAN FUNCTION
	1 = "On" to send Code Entry function to the control panel.
	2 = "On" to activate the Armed Away mode.
	3 = "On" to activate the Armed Stay mode.
	4 = "On" to send the Disarm function to the control panel.
	5 = "On" to send Auxiliary Function #1 to the control panel.
	6 = "On" to send Auxiliary Function #2 to the control panel.
	7 = "On" to broadcast an X-10 function (see Location 2).
	8 = **_"On" to send a Request To Exit (RTE); and activate the onboard relay._**
2	TRIPLE SCAN FUNCTION
	1 = **_"On" to send Code Entry function to the control panel._**
	2 = "On" to activate the Armed Away mode.
	3 = "On" to activate the Armed Stay mode.
	4 = "On" to send the Disarm function to the control panel.
	5 = "On" to send Auxiliary Function #1 to the control panel.
	6 = "On" to send Auxiliary Function #2 to the control panel.
	7 = "On" to broadcast an X-10 function (see Loc 2).
	8 = "On" to send an RTE & activate the onboard open collector output.
3	READER OPTIONS
	1 = "On" if tamper is inverted.
	2 = "On" if tamper is enabled.
	3 = "On" if reader buzzer is to follow typical keypad buzzing.
	4 = **_"On" if reader automatically issues a beep when a card is scanned._**
	5-8 Reserved.

SEG	DESCRIPTION

SEG	DESCRIPTION
4	**LED1 (GREEN) OPTIONS**
	1 = *"On" to follow Ready status of system.*
	2 = *"On" to toggle with the relay / open collector output activation.*
	3 = "On" if inverted.
	4-8 Reserved.
5	**LED2 (RED) OPTIONS**
	1 = *"On" to follow Armed status of system.*
	2 = "On" to toggle with the relay / open collector output activation.
	3 = "On" if inverted.
	4-8 Reserved.
6-8	**RESERVED**

LOCATION 2 – X10 ADDRESS

SEG	DESCRIPTION			
1	**MODULE NUMBER**			
	0 = *Module 1*	4 = Module 5	8 = Module 9	12 = Module 13
	1 = Module 2	5 = Module 6	9 = Module 10	13 = Module 14
	2 = Module 3	6 = Module 7	10 = Module 11	14 = Module 15
	3 = Module 4	7 = Module 8	11 = Module 12	15 = Module 16
2	**HOUSE CODE**			
	0 = *A*	4 = E	8 = I	12 = M
	1 = B	5 = F	9 = J	13 = N
	2 = C	6 = G	10 = K	14 = O
	3 = D	7 = H	11 = L	15 = P
3	**READER "A" SINGLE SCAN**			
	0 = All units off	2 = *On*	4 = Dim	6 = All lights off
	1 = All lights on	3 = Off	5 = Bright	7 = All others = Reserved
4	**READER "A" TRIPLE SCAN**			
	0 = All units off	2 = On	4 = Dim	6 = All lights off
	1 = All lights on	3 = *Off*	5 = Bright	7 = All others = Reserved
5	**READER "B" SINGLE SCAN**			
	0 = All units off	2 = *On*	4 = Dim	6 = All lights off
	1 = All lights on	3 = Off	5 = Bright	7 = All others = Reserved
6	**READER "B" TRIPLE SCAN**			
	0 = All units off	2 = On	4 = Dim	6 = All lights off
	1 = All lights on	3 = *Off*	5 = Bright	7 = All others = Reserved

LOCATION 3 – OPTIONS & DOOR CONTROL PARTITION

SEG	DESCRIPTION
1	**UNIT OPTIONS**
	1 = "On" if enabled for User Card Programming
	2 = "On" if tamper enabled
	3 = "On" if on-board zone is disabled
	4 = "On" if reader is 40-bit w/facility code format
	~ Set if reader is CASI 9xx/840/845
	~ Clear if Smart Reader (820/825) or Dual Tech Reader (1000/1010)
	5 = "On" if an RTE from a scanned card is to be logged as Code Entry
	6 = "On" if an RTE from a zone or the egress input is to be logged as Code Entry
	7-8 = Reserved
2	**DOOR OPTIONS**
	1 = "On" if locking mechanism is a Maglock or Drop Bolt.
	2 = "On" if access is allowed regardless of Armed status of the system.
	3 = "On" if the door is not to be latched unlocked during an open schedule.
	4 = "On" if onboard open collector output only triggers during an open schedule.
	5 = "On" if onboard open collector output only triggers during a close schedule.
	6 = "On" if Forced Entry Alarm is logged.
	7 = "On" if access allowed without an RTE.
	8 = Reserved.
3	**ENABLING THE SCHEDULES FOR THE ONBOARD OPEN COLLECTOR OUTPUT**
	1 = *"On" if driver follows Schedule 1.*
	2 = *"On" if driver follows Schedule 2.*
	3 = *"On" if driver follows Schedule 3.*
	4 = *"On" if driver follows Schedule 4.*
	5 = *"On" if driver follows Schedule 5.*
	6 = *"On" if driver follows Schedule 6.*
	7 = *"On" if driver follows Schedule 7.*
	8 = *"On" if driver follows Schedule 8.*

SEG	DESCRIPTION
4	READER PARTITION
1 =	*"On" if door control is in Partition 1*
2 =	*"On" if door control is in Partition 2*
3 =	*"On" if door control is in Partition 3*
4 =	*"On" if door control is in Partition 4*
5 =	*"On" if door control is in Partition 5*
6 =	*"On" if door control is in Partition 6*
7 =	*"On" if door control is in Partition 7*
8 =	*"On" if door control is in Partition 8*

LOCATION 4 – PROGRAMMING THE ZONES

1	DOOR SHUNT ZONE	*Default = 0*

✍ Additionally, this zone must be configured in the control panel as a Door Shunt zone by programming an unused Zone Type Characteristic in locations 111-169 (Seg 4, Opt 4).

2	REQUEST TO EXIT (RTE) ZONE	*Default = 0*

✍ Additionally, this zone must be configured in the control panel as an RTE zone by programming an unused Zone Type Characteristic in locations 111-169 (Seg 4, Opt 3).

LOCATION 5 – READER TIMERS

1	Scan Time (1/100 seconds)	*Default = 100 (1 second)*
2	Relay Active Time (seconds)	*Default = 10*
3	Door Fault Warning Time (seconds)	*Default = 30*
4	Door Fault Alarm Time (seconds)	*Default = 60*

LOCATION 6 – OPENING TIME FOR SCHEDULE 1

1	Hour of Opening (24-hr format)	*Default = 8 (8 AM)*
2	Minutes after Hour of Opening	*Default = 0*

LOCATION 7 – CLOSING TIME FOR SCHEDULE 1

1	Hour of Closing (24-hr format)	*Default =20 (8 PM)*
2	Minutes after Hour of Closing	*Default = 0*

LOCATION 8 – DAYS FOR SCHEDULE 1

1 =	"On" if schedule is active on Sunday.
2 =	**"On" if schedule is active on Monday.**
3 =	**"On" if schedule is active on Tuesday.**
4 =	**"On" if schedule is active on Wednesday.**
5 =	**"On" if schedule is active on Thursday.**
6 =	**"On" if schedule is active on Friday.**
7 =	"On" if schedule is active on Saturday.
8 =	"On" if schedule is disabled on holidays.

LOCATION 9 – OPENING TIME FOR SCHEDULE 2

1	Hour of Opening (24-hr format)	*Default = 8 (8 AM)*
2	Minutes after Hour of Opening	*Default = 0*

LOCATION 10 – CLOSING TIME FOR SCHEDULE 2

1	Hour of Closing (24-hr format)	*Default =20 (8 PM)*
2	Minutes after Hour of Closing	*Default = 0*

LOCATION 11 – DAYS FOR SCHEDULE 2

1 =	"On" if schedule is active on Sunday.
2 =	**"On" if schedule is active on Monday.**
3 =	**"On" if schedule is active on Tuesday.**
4 =	**"On" if schedule is active on Wednesday.**
5 =	**"On" if schedule is active on Thursday.**
6 =	**"On" if schedule is active on Friday.**
7 =	"On" if schedule is active on Saturday.
8 =	"On" if schedule is disabled on holidays.

LOCATION 12 – OPENING TIME FOR SCHEDULE 3

1	Hour of Opening (24-hr format)	*Default = 8 (8 AM)*
2	Minutes after Hour of Opening	*Default = 0*

LOCATION 13 – CLOSING TIME FOR SCHEDULE 3

1	Hour of Closing (24-hr format)	*Default =20 (8 PM)*
2	Minutes after Hour of Closing	*Default = 0*

SEG	DESCRIPTION

LOCATION 14 – DAYS FOR SCHEDULE 3

1 =	"On" if schedule is active on Sunday.
2 =	**"On" if schedule is active on Monday.**
3 =	**"On" if schedule is active on Tuesday.**
4 =	**"On" if schedule is active on Wednesday.**
5 =	**"On" if schedule is active on Thursday.**
6 =	**"On" if schedule is active on Friday.**
7 =	"On" if schedule is active on Saturday.
8 =	"On" if schedule is disabled on holidays.

LOCATION 15 – OPENING TIME FOR SCHEDULE 4

1	Hour of Opening (24-hr format)	*Default = 8 (8 AM)*
2	Minutes after Hour of Opening	*Default = 0*

LOCATION 16 – CLOSING TIME FOR SCHEDULE 4

1	Hour of Closing (24-hr format)	*Default =20 (8 PM)*
2	Minutes after Hour of Closing	*Default = 0*

LOCATION 17 – DAYS FOR SCHEDULE 4

1 =	"On" if schedule is active on Sunday.
2 =	**"On" if schedule is active on Monday.**
3 =	**"On" if schedule is active on Tuesday.**
4 =	**"On" if schedule is active on Wednesday.**
5 =	**"On" if schedule is active on Thursday.**
6 =	**"On" if schedule is active on Friday.**
7 =	"On" if schedule is active on Saturday.
8 =	"On" if schedule is disabled on holidays.

LOCATION 18 – OPENING TIME FOR SCHEDULE 5

1	Hour of Opening (24-hr format)	*Default = 8 (8 AM)*
2	Minutes after Hour of Opening	*Default = 0*

LOCATION 19 – CLOSING TIME FOR SCHEDULE 5

1	Hour of Closing (24-hr format)	*Default =20 (8 PM)*
2	Minutes after Hour of Closing	*Default = 0*

LOCATION 20 – DAYS FOR SCHEDULE 5

1 =	"On" if schedule is active on Sunday.
2 =	**"On" if schedule is active on Monday.**
3 =	**"On" if schedule is active on Tuesday.**
4 =	**"On" if schedule is active on Wednesday.**
5 =	**"On" if schedule is active on Thursday.**
6 =	**"On" if schedule is active on Friday.**
7 =	"On" if schedule is active on Saturday.
8 =	"On" if schedule is disabled on holidays.

LOCATION 21 – OPENING TIME FOR SCHEDULE 6

1	Hour of Opening (24-hr format)	*Default = 8 (8 AM)*
2	Minutes after Hour of Opening	*Default = 0*

LOCATION 22 – CLOSING TIME FOR SCHEDULE 6

1	Hour of Closing (24-hr format)	*Default =20 (8 PM)*
2	Minutes after Hour of Closing	*Default = 0*

LOCATION 23 – DAYS FOR SCHEDULE 6

1 =	"On" if schedule is active on Sunday.
2 =	**"On" if schedule is active on Monday.**
3 =	**"On" if schedule is active on Tuesday.**
4 =	**"On" if schedule is active on Wednesday.**
5 =	**"On" if schedule is active on Thursday.**
6 =	**"On" if schedule is active on Friday.**
7 =	"On" if schedule is active on Saturday.
8 =	"On" if schedule is disabled on holidays.

LOCATION 24 – OPENING TIME FOR SCHEDULE 7

1	Hour of Opening (24-hr format)	*Default = 8 (8 AM)*
2	Minutes after Hour of Opening	*Default = 0*

SEG	DESCRIPTION

LOCATION 25 – CLOSING TIME FOR SCHEDULE 7

1	Hour of Closing (24-hr format)	*Default =20 (8 PM)*
2	Minutes after Hour of Closing	*Default = 0*

LOCATION 26 – DAYS FOR SCHEDULE 7

1 = "On" if schedule is active on Sunday.
2 = **"On" if schedule is active on Monday.**
3 = **"On" if schedule is active on Tuesday.**
4 = **"On" if schedule is active on Wednesday.**
5 = **"On" if schedule is active on Thursday.**
6 = **"On" if schedule is active on Friday.**
7 = "On" if schedule is active on Saturday.
8 = "On" if schedule is disabled on holidays.

LOCATION 27 – OPENING TIME FOR SCHEDULE 8

1	Hour of Opening (24-hr format)	*Default = 8 (8 AM)*
2	Minutes after Hour of Opening	*Default = 0*

LOCATION 28 – CLOSING TIME FOR SCHEDULE 8

1	Hour of Closing (24-hr format)	*Default =20 (8 PM)*
2	Minutes after Hour of Closing	*Default = 0*

LOCATION 29 – DAYS FOR SCHEDULE 8

1 = "On" if schedule is active on Sunday.
2 = **"On" if schedule is active on Monday.**
3 = **"On" if schedule is active on Tuesday.**
4 = **"On" if schedule is active on Wednesday.**
5 = **"On" if schedule is active on Thursday.**
6 = **"On" if schedule is active on Friday.**
7 = "On" if schedule is active on Saturday.
8 = "On" if schedule is disabled on holidays.

LOCATION 30 – HOLIDAYS IN JANUARY	*Default = 0*	_ _ _ _ _ _ _ _
LOCATION 31 – HOLIDAYS IN FEBRUARY	*Default = 0*	_ _ _ _ _ _ _ _
LOCATION 32 – HOLIDAYS IN MARCH	*Default = 0*	_ _ _ _ _ _ _ _
LOCATION 33 – HOLIDAYS IN APRIL	*Default = 0*	_ _ _ _ _ _ _ _
LOCATION 34 – HOLIDAYS IN MAY	*Default = 0*	_ _ _ _ _ _ _ _
LOCATION 35 – HOLIDAYS IN JUNE	*Default = 0*	_ _ _ _ _ _ _ _
LOCATION 36 – HOLIDAYS IN JULY	*Default = 0*	_ _ _ _ _ _ _ _
LOCATION 37 – HOLIDAYS IN AUGUST	*Default = 0*	_ _ _ _ _ _ _ _
LOCATION 38 – HOLIDAYS IN SEPTEMBER	*Default = 0*	_ _ _ _ _ _ _ _
LOCATION 39 – HOLIDAYS IN OCTOBER	*Default = 0*	_ _ _ _ _ _ _ _
LOCATION 40 – HOLIDAYS IN NOVEMBER	*Default = 0*	_ _ _ _ _ _ _ _
LOCATION 41 – HOLIDAYS IN DECEMBER	*Default = 0*	_ _ _ _ _ _ _ _

LOCATION 42 – ACTIVATION DATA FOR USER CARDS 1 – 120

	LEDs	1	2	3	4	5	6	7	8
1	User Cards 1 - 8	1	2	3	4	5	6	7	8
2	User Cards 9 - 16	9	10	11	12	13	14	15	16
3	User Cards 17 - 24	17	18	19	20	21	22	23	24
4	User Cards 25 - 32	25	26	27	28	29	30	31	32
5	User Cards 33 – 40	33	34	35	36	37	38	39	40
6	User Cards 41 – 48	41	42	43	44	45	46	47	48
7	User Cards 49 – 56	49	50	51	52	53	54	55	56
8	User Cards 57 – 64	57	58	59	60	61	62	63	64
9	User Cards 65 – 72	65	66	67	68	69	70	71	72
10	User Cards 73 – 80	73	74	75	76	77	78	79	80
11	User Cards 81 – 88	81	82	83	84	85	86	87	88
12	User Cards 89 – 96	89	90	91	92	93	94	95	96
13	User Cards 97 – 104	97	98	99	100	101	102	103	104
14	User Cards 105 – 112	105	106	107	108	109	110	111	112
15	User Cards 113 - 120	113	114	115	116	117	118	119	120

SEG	DESCRIPTION								
LOCATION 43 – ACTIVATION DATA FOR USER CARDS 121 – 240									
LEDs		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
1	User Cards 121 - 128	121	122	123	124	125	126	127	128
2	User Cards 129 - 136	129	130	131	132	131	134	135	136
3	User Cards 137 - 144	137	138	139	140	141	142	143	144
4	User Cards 145 - 152	145	146	147	148	149	150	151	152
5	User Cards 153 – 160	153	154	155	156	157	158	159	160
6	User Cards 161 – 168	161	162	163	164	165	166	167	168
7	User Cards 169 – 176	169	170	171	172	173	174	175	176
8	User Cards 177 – 184	177	178	179	180	181	182	183	184
9	User Cards 185 – 192	185	186	187	188	189	190	191	192
10	User Cards 193 – 200	193	194	195	196	197	198	199	200
11	User Cards 201 – 208	201	202	203	204	205	206	207	208
12	User Cards 209 – 216	209	210	211	212	213	214	215	216
13	User Cards 217 – 224	217	218	219	220	221	222	223	224
14	User Cards 225 – 232	225	226	227	228	229	230	231	232
15	User Cards 233 – 240	233	234	235	236	237	238	239	240
LOCATION 44 – CODE ENTRY LOGGING PARTITION									
1	Code Entry Logging Partition for Reader "A" *Default = 0*								
2	Code Entry Logging Partition for Reader "B" *Default = 0*								

X. ORDERING INFORMATION

PART #	DESCRIPTION
NX-1710E	Single Door Control Module
NX-1700E	Proximity Card Reader
NX-848E-KIT	NX-8E Control, NX-148E LED Keypad, 40VA Transformer
NX-848-KIT	NX-8 Control, NX-148E LED Keypad, 40VA Transformer
NX-648-KIT	NX-6 Control, NX-148E LED Keypad, 40VA Transformer

XI. GLOSSARY

TERM	DESCRIPTION
Request To Exit (RTE)……	A zone can be programmed to monitor an open door. The RTE activates the onboard open collector output and sends a message on the buss. (Refer to Loc 0, Pg 11)
Scan……………………..	To "present" or pass a card or FOB within sensing range of the card reader module.
Single Beep………………...	An audible indicator (beep).
Single Scan…………	When a user card is scanned and held at the reader for 1 beep, the reader will perform the functions as programmed in Loc 0, Pg 11
Triple Beep………………....	An audible indicator (beep, beep, beep).
Triple Scan…………..	When a user card is scanned three times at the reader, the reader will perform the functions as programmed in Location 0 & 1, Pgs 11 & 12

XII. FCC INFORMATION

The NX-1710E module has <u>not</u> received any FCC approvals yet.

XIII. UNDERWRITERS LABORATORIES INFORMATION

The NX-1710E module has <u>not</u> received any UL listings yet.

XIV. SPECIFICATIONS

DIMENSIONS	Approx. 3.25"W x 6.00"L x 1"D
OPERATING POWER	12 VDC, Supplied by NX-4, NX-6, NX-8, NX-8E, or NX-320E
CURRENT DRAW	40mA Standby with Green LED 110mA Maximum
OPERATING TEMPERATURE	32 to 120 degrees F
SHIPPING WEIGHT	< 1 lb.