

XR100/XR500

April 2012

Version 209 Software Update

The XR100/XR500 Version 209 (4/3/12) software is now available for download on the DMP Dealer Direct Website at <http://dmp.com/dealer>.

Effective April 30, 2012, all XR100 and XR500 Series panels will be manufactured with updated Version 209 software. As of June 11, 2012, factory inventory for the XR100 and XR500 panels will be completely updated.

Network Wiegand Interface Modules

Features

- Allows you to add IP network access control capability to XR100/XR500 panels using proximity or mag-stripe card readers.
- Provides a fast, safe and secure 10/100 MHz connection to the local network for AES encrypted TCP communication with the control panel
- Allows fast verification of user codes presented at the reader for door access.
- Operates at 12/24 VDC from a DC Plug-in power supply or the power supply supporting the magnetic lock or door-strike at the door
- Provides a 10 Amp Form C relay contact for lock control
- Four input zones are provided to allow connection of nearby burglary devices
- For local annunciation, a programmable speaker and a variety of switched ground annunciators are provided to connect sounders
- Provides LEDs to indicate door strike, Wiegand inputs, and power to the module
- Provides a keypad programming connection to use a standard DMP LCD keypad for initial network setup. Programming can be completed using the keypad or from the XR100/XR500 panel.



Programming Options to support 734N/734N-WiFi

The following options have been added to Network Options and Device Setup to support 734N/ 734N-WiFi operation.

Network Options

734N LISTEN
PORT:

734N Listen Port

Enter the port number that the 734N/734N-WiFi will use to send communication to the panel. This must be the same port that is programmed in Panel IP Port within the 734N Communication programming menu.

Note: The 734N Listen Port cannot be the same as the panel network programming port.

734N PASSPHRASE
-

734N Passphrase

Enter an 8 to 16-character Passphrase to encrypt communication with the 734N/734N-WiFi module. The 734N Passphrase must match the 734N Passphrase entered in Communication programming of the 734N. The Passphrase is blank by default.

Note: A passphrase is *required* for operation.

Device Setup

DEVICE COMM TYPE
KPD-BUS NETWORK

Device Communication Type

For a Device Type of DOOR, select KPD-BUS to communicate with the device on the keypad bus or select NETWORK to communicate with the device using a network connection. Default is KPD-BUS.



PROGRAM 734
OPTIONS? **NO** YES

Program 734N Options

Select YES to program a 734 or 734N/734N-WiFi Wiegand Interface Module.

To program the 734N/734N-WiFi, the Device Type must be set to DOOR and the Device Communication Type must be set to NETWORK.

ACTIVATE ZONE 2
BYPASS? **NO** YES

Activate Zone 2 Bypass

Select YES to activate the Bypass option. Selecting NO allows standard zone operation on Zone 2 and displays the ACTIVATE ZONE 3 REX option. Default setting is NO.

If the door being released by the module is protected (contact installed), you can provide a programmable Bypass entry/exit timer by connecting its contact wiring to the 734/734N/734N-WiFi module Zone 2. When the on-board Form C relay activates and the user opens the door connected to Zone 2, the zone is bypassed for the number of seconds programmed in ZONE 2 BYPASS TIME allowing the user to enter/exit.

If Zone 2 does not restore (door closed) within the programmed bypass time, the piezo pulses 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 module 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. Range is from 20 to 250 seconds. Press any top row select key to enter the number of seconds. If the door remains open when the timer expires a zone open/short is sent to the panel for Zone 2. The default is 40 seconds.

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

Relock on Zone 2 Change?

Selecting NO leaves the relay on for the door access time when Zone 2 restores.

Selecting YES turns the relay off and relocks the door when Zone 2 changes state. 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 and displays the ACTIVATE ONBOARD SPEAKER option. Default setting is NO.

Optionally connect a PIR (or other motion sensing device) or a mechanical switch to Zone 3 to provide REX capability to the system. When Zone 3 **shorts**, the on-board Form C relay activates for the programmed number of seconds. During this time, the user can open the protected door to start the programmed Bypass entry/exit timer. After the programmed number of seconds, the relay restores the door to its locked state.

The 734/734N module provides a bypass-only option for REX on Zone 3. When Zone 3 opens from a normal state, only a bypass occurs: the on-board relay does not activate. This bypass-only option uses two methods of REX. The first REX device provides the programmed Bypass entry/exit timer. The second REX device, or manual device such as a door knob, unlocks the door.

An example of the bypass-only configuration is a door to an office that is locked 24 hours a day. Users pass a REX motion detector positioned by the door to begin the programmed exit timer. Within the programmed number of seconds the user must then manually activate a second device, such as a REX device or manual door knob, to unlock the door. If the door is opened after the programmed number of seconds, the zone goes into alarm.

ZN 3 REX STRIKE
TIME: **5**

Zone 3 REX Strike Time

Enter the number of REX seconds to elapse. Range is from 5 to 250 seconds. Press any top row select key to enter the number of seconds. The default is 5 seconds.

ACTIVATE ONBOARD
SPEAKER? **NO** YES

Activate Onboard Speaker

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

CARD OPTIONS: DMP

Card Options

Press any top row Select key to display options. Press the select key under DMP, CUSTOM, or ANY to select that option. Select DMP to indicate the reader sends a 26-bit DMP data string. Press the COMMAND key to display REQUIRE SITE CODE.

CARD OPTIONS: DMP CUSTOM ANY

Note: When set to DMP, the 734/734N/734N-WiFi converts 17 bits of the 26-bit data string into a 5-digit number.

Select **CUSTOM** if using a non-DMP card or user code length of 6 to 10 digits. Default is DMP.

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.

Custom Card Definitions

WIEGAND CODE LENGTH: 26

Wiegand Code Length

When using a custom credential, enter the total number of bits to be received in Wiegand code including parity bits. Press any top row Select key to enter a number between 1-255 to equal the number of bits. Default is 26 bits.

Typically, an access card contains data bits for a site code, a user code, and start/stop/parity bits. The starting position location and code length must be determined and programmed into the 734/734N/734N-WiFi Module.

SITE CODE POSITION: 1

Site Code Position

Enter the site code start position in the data string. Press any top row Select key to enter a number between 0-255. Default is 1.

SITE CODE LENGTH: 8

Site Code Length

Enter the number of characters the site code contains. Press any top row Select key to enter a number between 1-16. Default is 8.

USER CODE POSITION: 9

User Code Position

Define the User Code start bit position. Press any top row Select key to enter a number between 0-255. Default is 9.

USER CODE LENGTH: 16

User Code Length

Define the number of User Code bits. Press any top row Select key to enter a custom number. On a 734N/734N-WiFi module, custom numbers can be between 1-255. The default is 16.

REQUIRE SITE CODE? NO YES

Require Site Code

Press the top row Select key under YES to use a site code. 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

734N/734N-WiFi: You can program up to eight five-digit site codes. Site code range is 1-65535. Any previously programmed site codes display. Site Code 1 defaults to 127. Site Codes 2-8 default to blank. Dashes represent blank site codes.

SITE CODE 1: (1-65,535) 127

Site Code 1 displays first. Enter a site code number followed by the Command key to advance to the next prompt, Site Code 2. To delete an existing site code, press any Select key. Either enter a new site code followed by Command, or press Command to leave blank and continue to the next site code. Repeat these steps to change, delete, or add up to eight site codes.

NO. OF USER CODE DIGITS: 5

Number of User Code Digits

The 734N/734N-WiFi module recognizes user codes from 1-10 digits in length. Press any top row Select key to enter a user code digit length. This number must match the user code number length being used by the panel. Default is 5. For an XR500 Area System, use 4 to 10 digits (typically 5). For all other systems and panels, use 4 digits.

Any selection above 5 digits requires entry of the custom card definitions with custom site and user code positions for the Wiegand string. When searching the bit string for the user code, the digits are identified and read from left to right.

NO COMM WITH PNL OFF

No Communication with Panel

This option defines the relay action when communication with the panel has not occurred for five seconds. Press any top row Select key to display relay action options. Press the Back Arrow key to return to the NO OF USER CODE DIGITS:.

NO COMM WITH PNL OFF SITE ANY ON

Press the *first* Select key to choose OFF [Default] (Relay Always Off) – The relay does not turn on when any Wiegand string is received. Off does not affect any REX operation. Press the *second* Select key to choose SITE (Accept Site Code) – Door access is granted when the Wiegand site code string received matches any site code programmed at SITE CODE ENTRY. For details refer back to the REQUIRE SITE CODE option.

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

Press the *fourth* Select key to choose ON (Relay Always On) – The relay is always on.

Press the COMMAND key to display the next action.

NO COMM WITH PNL LAST

Press the first Select key to choose LAST (Keep Last State) – The relay remains in the same state and does not change when communication is lost.

New Features

The following additional new features have been implemented for the XR100/XR500 Series panels Version 209 software, which provides operation beyond the 734N/734N-WiFi features.

Supervisory Alarm Output

The following option has been added to Output Options to allow the selection of an output for any Supervisory type zone alarms. Previously, the **Fire Trouble Output** turned on when a Supervisory type zone was in alarm.

SUPV ALM OUT: 0

Supervisory Alarm Output

Enter the output number to turn on when a supervisory zone type is placed into an alarm. The output turns off when all supervisory type zones are restored to normal. Enter 0 (zero) to disable. Default is 0.

Re Arm Delay

The User Profile Re Arm Delay now uses the greater of the programmed delays when more than one user enters a valid user code. Example: If a user disarms the system and their User Profile Re Arm Delay time is 15 minutes, and then another user comes in 5 minutes later with a User Profile Re Arm Delay time of 45 minutes, the Re Arm delay countdown timer will use the longer delay time.

RE ARM DELAY allows the entry of 0 to 250 minutes to delay automatic rearming when an area is disarmed outside of schedule. If zero is selected, the rearming occurs based on permanent programming in the panel.

Day Zone Output

For Day Zone types, when an output is turned on, a user code with silence authority can now turn off the output.

Updated Operation

The following issues have been corrected in Version 209 (4/3/12):

Real Time Status Messages

XR100/XR500 panels with Version 207 (12/27/11) or higher software failed to send real time status messages to Entre to indicate that a door was locked (door access relay off) at the end of a schedule. No other real time status messages were affected by this issue. Panels with software prior to Version 207 (12/27/11) were not affected by this issue.

Daily Test Messages

Version 209 (4/3/12) XR100/XR500 panels no longer send Automatic Recall Test messages to the Entre connection. Entre does not recognize this as a valid message and generates an error when received. This issue only occurred in Version 206 (8/22/10) and higher. Panels with Version 205 (9/16/10) and lower software were not affected by this issue.

IP Address Programming

Previous to Version 209 (4/3/12), XR100/XR500 panels would send incorrect Network Options remote programming to Entre if an IP address containing less than 12 digits was entered in any Network Options programming field using a keypad. When this occurred, Entre displayed an error message and disconnected from the panel.

Obtaining the New Software

XR100/XR500 Series software updates are available for download free of charge on the DMP Dealer Direct Website at <http://dmp.com/dealer>.

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