

Remote Link and System Link February 2012

Version 1.61 Software Update

Effective February 23, 2012, all Remote Link and System Link software is being manufactured as Version 1.61 (2/15/12). This version is an update from the Version 1.61 (12/5/2011) previously shipped and contains new features and updated operation.

Note: If Remote Link or System Link software is previous to Version 1.46, update to an intermediate version before updating to 1.61 (2/15/12).

Features

The following new features have been implemented for the soon to be released XR100/XR500 Series panels Version 209 software to support the soon to be released 734N Network Wiegand Module.

734N Network Wiegand Interface Module (Soon To Be Released)

Features

- The 734N allows you to add IP network access control capability to XR100/XR500 panels using proximity or mag-stripe card readers.
- The 734N 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

Network Options

734N Listen Port (XR100/XR500 Version 209 or above): Enter the port number that the 734N 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.

734N Passphrase (XR100/XR500 Version 209 or above): Enter an 8 to 16-character Passphrase to encrypt communication with the 734N 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.

Network Options	
Options	
<input type="checkbox"/> DHCP Enabled	
Local IP Address	0.0.0.0
Gateway Address	192.168.0.125
Subnet Mask	255.255.255.0
DNS Server	0.0.0.0
734N Listen Port	2002
734N Passphrase	
<< OK Cancel >>	

Device Setup General Tab

Device Type: This allows you to specify the type of device installed at a particular address on the keypad bus.

Door: The device is an access control device and is either a keypad or a Wiegand Interface Module

Fire: The device is a 630F Remote Annunciator

Keypad: The device is a keypad

Zone Expander: The device is a zone expansion module

Device Communication Type: For a Device Type of Door, select Keypad Bus to communicate with the device on the keypad bus or select Network to communicate with the device using a network connection. Default is Keypad Bus.

Device Setup 734 Options Tab

Program 734N Options: Select 734 Options tab to program the 734N Wiegand Interface Module.

Note: Device type on the General Tab must be set to DOOR and Device Communication Type must be set to NETWORK for 734N operation.

Zone 2 Options

Activate Zone 2 Bypass: Select to enable the Bypass option. Disabling allows standard zone operation on Zone 2. Default setting is disabled.

If the door being released by the 734/734N module is protected (contact installed), you can provide a programmable Bypass entry/exit timer by connecting its contact wiring to the 734/734N 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 734 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 734/734N ends the bypass and indicates the open or short zone condition to the panel.

Relock on Zone 2 Change: Select to turn the 734 door relay off and relock the door when Zone 2 changes state. Disabling this option leaves the relay on for the door access time when Zone 2 restores. The default is disabled.

Zone 2 Bypass Time: Enter the number of Bypass seconds to elapse before the Bypass timer expires. Range is from 20 to 250 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.

Zone 3 Options

Activate Zone 3 Request to Exit: Selecting enables the Zone 3 Request to Exit (REX) option. Disabling allows standard zone operation on Zone 3. Default setting is disabled.

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.

Zone 3
☒ Activate Zone 3 Req to Exit
 Zone 3 Req to Exit Strike Time

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 shunt-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.

Zone 3 Request to Exit Strike Time: Enter the number of Request to Exit seconds to elapse. Range is from 5 to 250 seconds. The default is 5 seconds.

Activate Onboard Speaker: Select to enable the onboard piezo speaker for local annunciation. Disable to turn the piezo off for all operations. This does not affect remote annunciator open collector (RA) operation. The default is disabled.

☐ Activate Onboard Speaker

Card Options

Card Options: Select DMP to indicate the reader sends a 26-bit DMP data string. Select CUSTOM if using a non-DMP credential or user code length of 6 to 10 digits. Select ANY to activate the door relay for the programmed Zone 3 Rex Strike Time when any Wiegand string is received. Default is DMP.

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

Wiegand Code Length (734N): When using a custom product, enter the total number of bits to be received in Wiegand code including parity bits. Select a number between 1-255 to equal the number of bits. Default is 26 bits.

Card Options
 Card Options Site Code Length
 Wiegand Code Length User Code Position
 Site Code Position User Code Length

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 Module.

Site Code Position: Enter the site code start position in the data string. Enter a number between 0-255. Default is 1.

Site Code Length: Enter the number of characters the site code contains. Enter a number between 1-16. Default is 8.

User Code Position: Enter the User Code start bit position. Enter a number between 0-255. Default is 9.

User Code Length (734N): Enter the number of User Code bits. On a 734N module, custom numbers can be between 1-255. The default is 16.

Site Codes

Require Site Code: Select to enable the use of a site code. In addition to User Code verification, door access is only granted when any one site code programmed below matches the site code received in the Wiegand string.

Site Codes
☒ Require Site Code
 Site Code 1 Site Code 5
 Site Code 2 Site Code 6
 Site Code 3 Site Code 7
 Site Code 4 Site Code 8

Site Codes (734N): You can program up to eight five-digit site codes. Site code range is 1-65535. Any previously programmed site codes display. Enter a site code number followed by the tab key to advance to the next Site Code.

Number of User Code Digits (734N): The 734N module recognizes user codes from 1-10 digits in length. This number must match the user code number length being used by the panel. Default is 5. For an XR500/XR100 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.

Number of User Code Digits	5
No Communication with Panel	Off

No Communication with Panel: This option defines the relay action when communication with the panel has not occurred for five seconds. Choose the action required. Default is Off.

Off (Relay Always Off) — The relay does not turn on when any Wiegand string is received. Off does not affect any REX operation.

Site (Accept Site Code) — Door access is granted when the Wiegand site code string received matches any programmed site code. For details refer back to the Require Site Code option.

Any (Any Wiegand Read) — Door access is granted when any Wiegand string is received.

ON (Relay Always On) — The relay is always on.

Last (Preserve Last) — 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 soon to released XR100/XR500 Series panels Version 209 software, which provides operation beyond the 734N features.

Supervisory Alarm Output

A new output 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 an alarm condition.

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.

Day Zone Output

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

Options	Value
Cutoff Outputs	
Cutoff Time Minutes	0

Outputs	Value
Communication Fail Output	0
Fire Alarm Output	0
Fire Trouble Output	0
Panic Output	0
Ambush Output	0
Entry Output	0
Exit Output	0
Ready Output	0
Phone Trouble Output	0
Late to Close Output	0
Device Fail Output	0
Sensor Reset Output	0
Closing/Wait Output	0
Arm-Alarm Output	0
Supervisory Alarm Output	0

Updated Operation

TCP Trap

Remote Link now allows a panel trap to be programmed without first opening the panel in the Panel Information window. Previously, Remote Link would execute the trap but disconnect before information could be exchanged if the trap was programmed without first opening the panel in Panel Information.

User Zero

Remote Link now properly allows the XR100/XR500 panel to be programmed with a user number 0 (zero) for use with the Service User Authentication feature. Previously, Remote Link Version 1.61 would generate an error stating the user number must be greater than zero. This issue was only seen in Remote Link Version 1.61 (12/5/11). Previous versions were not affected.

Obtaining the New Software

Remote Link and System Link Version 1.61 (2/15/12) updates are available for download free of charge on the DMP Dealer Direct Website at <http://dmp.com/dealer>.