

## Remote Link and System Link September 2010

### Version 1.55 Software Update

Effective September 2010, Remote Link and System Link are being manufactured with Version 1.55 (9/20/10) software to fully support the XR100/XR500 Version 206 software.

### New Features

#### Full Time Entre Connection

A dedicated port now allows connections to Entre software or other third party integrations. The concurrent communication allows AES Encrypted strings, offers no need to 'disconnect' to send messages to the central station receivers, has a new outgoing socket instead of using PC Logs, and now supports check-ins and a backup IP address. The new options are outlined in section 5.7 (pages 153-154) of the programming guide pages that follow at the end of this notice.

#### 734 Programming

The 734 Wiegand Interface module options can now be programmed as part of Device Setup in panel programming. The new options are outlined in section 5.6.1 (pages 146-149) of the programming guide pages that follow at the end of this notice.

#### Remote Options

Remote Option programming has been reorganized and updated with new options. The new options are outlined in section 5.7 (pages 150-153) of the programming guide pages that follow at the end of this notice.

- Full Time Entre Connection
- Remote Key now up to 16 characters when using encryption
- Added Dialer Remote options
- Added Network Remote options
- Added Cellular Remote options
- Added RS-232 Remote options

#### Real-Time Door Message

New options have been added to Device Setup programming to allow real-time door status messages to be sent to PC Log and Entré Reporting.

**Door Real-Time Status:** Enable to have real-time door status messages sent to PC Log reporting and Entré reporting for this device. Messages are sent anytime the panel turns the door relay on or off. Default is disabled.

**Send Door Forced Message:** Enable to have the panel send a real-time door status message of Forced Open (FO) to PC Log reporting and Entré reporting when the door relay is off, but the door zone has transitioned from its normal state. Default is disabled.

#### Report with Account Number

A new option has been added to Zone Information to allow 24 hour zones to be programmed into an area to report the area account number.

This option is only available for 24-hour zone types (Fire, Fire Verify, Panic, Emergency, or Supervisory). Enter the area number (1-32) to assign as a 24-hour zone type. This option sends the account number of the programmed area with messages. If the entered area number does not exist or is not valid, the account number programmed in the Communication section is sent. Select 0 (zero) to have the report sent with the account number programmed in Communication. Default is 0.

Program > Device Setup

The screenshot shows the 'Device Setup' window with a table on the left and configuration fields on the right. The table lists two devices: '1 FRONT DOOR' and '2'. The right side of the window is titled 'Standard | 734 Options' and contains the following fields and checkboxes:

- Device Number: [ ]
- Name: [ ]
- Device Type: Door (dropdown)
- Public Door
- Access Areas: [ ]
- Egress Areas: [ ]
- Display Areas: 1-32
- Strike Time: 5
- Strike Delay: 0
- Fire Exit
- Auto Force Arm
- Output Group
- Door Real-time Status
- Override
- Send Door Forced Message

### Obtaining the New Software

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



## 5.6.1 734 Options

### Program > Device Setup > 734 Options Tab

Standard		734 Options	
<input checked="" type="checkbox"/> Program 734 Options			
Zone 2			
<input checked="" type="checkbox"/> Activate Zone 2 Shunt			
<input type="checkbox"/> Relock on Zone 2 Fault			
Zone 2 Soft-Shunt Time		<input type="text" value="40"/>	
Zone 3			
<input checked="" type="checkbox"/> Activate Zone 3 Req to Exit			
Zone 3 Req to Exit Strike Time		<input type="text" value="5"/>	
<input checked="" type="checkbox"/> Activate Onboard Speaker			
Card Options			
Card Options	<input type="text" value="Custom"/>	Site Code Length	<input type="text" value="8"/>
Wiegand Code Length	<input type="text" value="26"/>	User Code Position	<input type="text" value="9"/>
Site Code Position	<input type="text" value="1"/>	User Code Length	<input type="text" value="16"/>
Site Codes			
<input checked="" type="checkbox"/> Require Site Code			
Site Code 1	<input type="text"/>	Site Code 5	<input type="text"/>
Site Code 2	<input type="text"/>	Site Code 6	<input type="text"/>
Site Code 3	<input type="text"/>	Site Code 7	<input type="text"/>
Site Code 4	<input type="text"/>	Site Code 8	<input type="text"/>
Number of User Code Digits		<input type="text" value="5"/>	
Degraded Mode		<input type="text" value="Off"/>	

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

**Note:** Device type on the Standard Tab must be set to DOOR for 734 option programming.

### Zone 2 Options



The screenshot shows a configuration window titled "Zone 2". It contains two checkboxes: "Activate Zone 2 Shunt" which is checked, and "Relock on Zone 2 Fault" which is unchecked. Below these is a text input field labeled "Zone 2 Soft-Shunt Time" with the value "40" entered.

**Activate Zone 2 Shunt:** Select to enable the Soft-Shunt™ option. Disabling allows standard zone operation on Zone 2. Default setting is disabled.

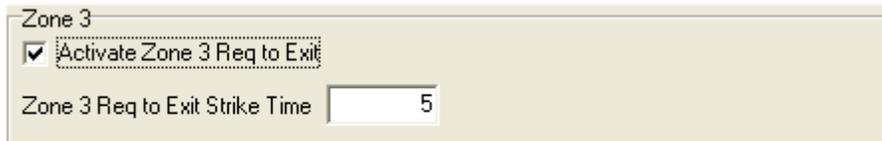
If the door being released by the 734 module is protected (contact installed), you can provide a programmable Soft-Shunt entry/exit timer by connecting its contact wiring to the 734 module Zone 2. When the on-board Form C relay activates and the user opens the door connected to Zone 2, the zone is shunted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

If Zone 2 does not restore (door closed) within the programmed time minus ten seconds, the piezo sounds every other second during the timer last ten seconds. If Zone 2 restores prior to the end of the programmed time, the piezo silences. If the zone does not restore after the ten second piezo time, the 734 ends the shunt and indicates the open or short zone condition to the panel.

**Relock on Zone 2 Fault:** Select to turn the relay off when Zone 2 faults open or short during Soft-Shunt. Disabling this option leaves the relay on when Zone 2 faults to an open or short condition during Soft-Shunt. The default is disabled.

**Zone 2 Soft-Shunt Time:** Enter the number of Soft-Shunt seconds to elapse before the Soft-Shunt 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



The screenshot shows a configuration window titled "Zone 3". It contains one checked checkbox: "Activate Zone 3 Req to Exit". Below this is a text input field labeled "Zone 3 Req to Exit Strike Time" with the value "5" entered.

**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 Soft-Shunt™ entry/exit timer. After the programmed number of seconds, the relay restores the door to its locked state.

The 734 module provides a shunt-only option for REX on Zone 3. When Zone 3 opens from a normal state, only a Soft-Shunt occurs: the on-board relay does not activate. This shunt-only option uses two methods of REX. The first REX device provides the programmed Soft-Shunt 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 enabled.

#### Card Options

Card Options			
Card Options	Custom	Site Code Length	8
Wiegand Code Length	26	User Code Position	9
Site Code Position	1	User Code Length	16

**Card Options:** Select DMP to indicate the reader sends a 26-bit DMP data string. Select CUSTOM if using a non-DMP card or user code length of 6 to 10 digits. Default is DMP.

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

**Wiegand Code Length:** When using a custom product, enter the total number of bits to be received in Wiegand code including parity bits. Select a number between 0-255 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 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:** Enter the number of User Code bits. Custom numbers can only be a number between 16-32. The default is 16.

#### Site Codes

Site Codes			
<input checked="" type="checkbox"/> Require Site Code		Site Code 5	567
Site Code 1	123	Site Code 6	890
Site Code 2	456	Site Code 7	345
Site Code 3	789	Site Code 8	678
Site Code 4	234		

**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:** You can program up to eight three-digit site codes. Site code range is 0-999. Any previously programmed site codes display. Enter a three-digit site code number followed by the tab key to advance to the next Site Code.

**Note:** A card with a site code greater than three digits cannot be used. Use only cards with three-digit site codes.



The image shows a configuration window with two settings. The first is 'Number of User Code Digits' with a text input field containing the number '5'. The second is 'Degraded Mode' with a dropdown menu currently set to 'Off'.

**Number of User Code Digits:** The 734 module recognizes user codes from four to ten digits in length. Enter a user code digit length between 4-10 digits. 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 require 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.

**Degraded Mode:**

This option defines the relay action when communication with the panel has not occurred for five seconds. Choose the Degraded Mode 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.

## 5.7 Remote Options

### Program > Remote Options

The Remote Options window allows you to enter the information needed for connecting to the panel using Remote Link software.

The screenshot shows the 'Remote Options' dialog box with the following settings:

- General:**
  - Remote Key: [Empty text box]
  - Remote Disarm
- Dialer:**
  - Allow Dialer Remote
  - Armed Answer Rings: [8]
  - Disarmed Answer Rings: [8]
  - PC Modem
- Network:**
  - Allow Network Remote
  - Encrypt Network Remote
  - Network Programming Port: [Empty text box]
- Cellular:**
  - Allow Cell Remote
  - Encrypt Cell Remote
  - First GPRS APN: [SECURECOM400]
  - Second GPRS APN: [SECURECOM400]
- RS-232:**
  - Allow 232 Remote
- Entré:**
  - Entré Connection: [Net]
  - Entré Incoming TCP Port: [Empty text box]
  - Entré IP: [Empty text box]
  - Entré Outbound TCP Port: [Empty text box]
  - Entré Backup IP: [Empty text box]
  - Entré Backup TCP Port: [Empty text box]
  - Entré Check-in Minutes: [Empty text box]
  - Entré Passphrase: [Empty text box]
- Program Sync:**
  - Send Local Changes: [Net]
  - Remote Change IP: [0.0.0.0]
  - Remote Change Port: [2002]
  - Remote Phone Number: [Empty text box]

Buttons at the bottom: <<, OK, Cancel, >>

### General Options



General

Remote Key

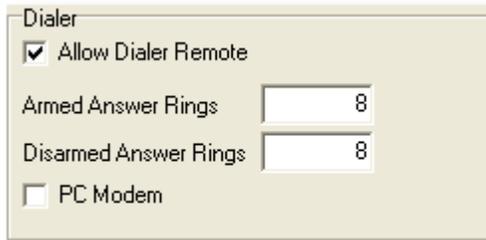
Remote Disarm

**Remote Key:** Enter an alphanumeric code up to 16 characters long that the panel will use as a password to verify its identity with Remote Link. The panel must give the correct key to Remote Link before any programming may take place. All panels are shipped from the factory with the remote key preset as blank.

For security reasons, the **Remote Key** cannot be viewed from a keypad connected to the panel.

**Remote Disarm:** Checking the **Remote Disarm** box allows the panel to be disarmed remotely. Default is disabled.

### Dialer Options



Dialer

Allow Dialer Remote

Armed Answer Rings

Disarmed Answer Rings

PC Modem

**Allow Dialer Remote:** Enable to allow remote programming over the phone line. Default is enabled.

#### Receiver Key Operation:

When enabled, the panel requests the receiver's key during its first message to the SCS-1R Receiver and this becomes the alarm receiver key. A receiver key is an alphanumeric code programmed into the receiver and identifies it to alarm panels. The panel retains this alarm receiver key in memory and allows remote commands to be accepted over the dialer from the alarm receiver. If an alarm occurs during a remote connect, the alarm report is immediately sent to the alarm receiver and does not appear at the remote programming software.

Enabling this option also enables remote commands and programming to be accepted from a secondary receiver other than the alarm SCS-1R Receiver. The panel requests the service receiver key the first time it is contacted by another receiver and this becomes the service receiver key. The panel retains this service receiver key in memory and accepts remote commands from the service receiver. If an alarm occurs during a remote connect, the panel disconnects from the service receiver and calls the alarm receiver. Alarm reports are only sent to the alarm receiver.

It is important that the alarm receiver key and the service receiver key programmed into the receiver at the central station are NOT the same so the panel can determine the difference between receivers. When disabled, remote commands and programming are not accepted from the SCS-1R Receiver using digital dialer and all memory of receiver keys is cleared.

**Armed Answer Rings:** Enter the number of times you wish for the panel to allow the phone line to ring before it answers while all areas of the system are armed. Any number from 0 to 15 can be entered. If 0 (zero) is entered, the panel does not answer the phone when all system areas are armed. The default is 8 (eight).

**Disarmed Answer Rings:** Enter the number of times you wish for the panel to allow the phone line to ring before it answers while any area of the system is disarmed. Any number from 0 to 15 can be entered. If 0 (zero) is entered, the panel does not answer the phone when all system areas are armed. The default is 8 (eight).

**PC Modem:** Allows connection to an XR500 Series, XR2500F, or XR100 Series panel for remote programming at 2400 baud through the panel dialer. Leave this box unchecked to allow communication through an SCS-105.

**Alarm Receiver (XR100/XR500 Version 205 or earlier):** Select Yes to enable the panel to accept remote commands and programming from the alarm receiver. If you select No the panel will not accept remote commands and programming from the alarm receiver.

**Service Receiver (XR100/XR500 Version 205 or earlier):** Select Yes to enable the panel to accept remote commands and programming from a secondary service receiver other than the alarm receiver. This option must be Yes to allow programming from a directly connected computer or an Ether-Com. If you select No, the panel will not accept remote commands and programming from a secondary service receiver. If you select No and then attempt to connect to the panel using Remote Link, you will see an error message and will not be allowed to connect.

#### Network Options

Network

Allow Network Remote

Encrypt Network Remote

Network Programming Port

**Allow Network Remote:** This option displays only if the panel has network capability. Enable to allow remote programming over the network.

**Encrypt Network Remote:** Enable to encrypt data sent over the network. Default is disabled.

**Network Programming Port (XR100N/XR500N Version 206 or higher):** Enter the programming port number. The programming port identifies the port used to communicate messages from the panel. The default Programming Port setting is 2001.

#### Cellular Options

Cellular

Allow Cell Remote

Encrypt Cell Remote

First GPRS APN

Second GPRS APN

**Allow Cell Remote:** Enable to allow remote programming over a cellular connection. Default is enabled.

**Encrypt Cell Remote:** Enable to encrypt data sent over a cellular connection. Default is disabled.

**First GPRS APN:** Enter the first APN (Access Point Name). This allows an access point for cellular communication and is used to connect to a DNS network. The APN may contain two lines of 16 characters to equal 32 characters. Default is set to SECURECOM400.

**Second GPRS APN:** Enter the second APN (Access Point Name). This works as a backup in case the first APN fails. The APN may contain two lines of 16 characters to equal 32 character Default is set to SECURECOM400.

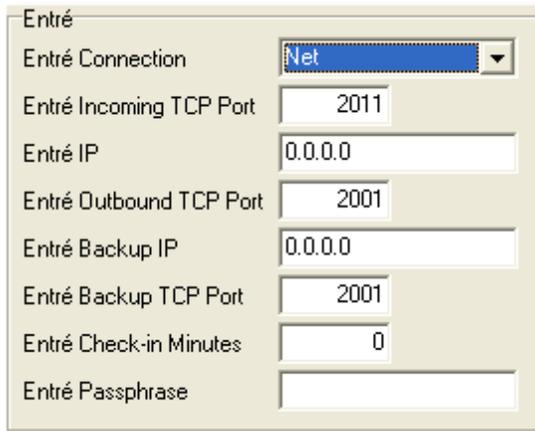
#### RS-232 Options



RS-232  
 Allow 232 Remote

**Allow RS-232 Remote:** Enable to allow remote programming over the on-board RS-232 port. Default is enabled.

#### Entré Options (only available with XR100N/XR500N Version 206 or higher)



Entré  
Entré Connection: Net  
Entré Incoming TCP Port: 2011  
Entré IP: 0.0.0.0  
Entré Outbound TCP Port: 2001  
Entré Backup IP: 0.0.0.0  
Entré Backup TCP Port: 2001  
Entré Check-in Minutes: 0  
Entré Passphrase:

**Entré Connection:** This option displays only if the panel has network capability. Select NET to allow a dedicated network connection with Entré. Options are NONE or NET. Default is NONE.

**Entré Incoming TCP Port:** This option displays only if NET is chosen for the Entré connection. Enter the port number for the incoming Entré connection. The port identifies the port used to communicate with the Entré software. This port cannot be the same port as programmed in Network Programming Port. The default Entré Incoming TCP Port setting is 2011.

**Entré IP Address:** This option displays only if NET is chosen for the Entré connection. Enter the Entré IP address where the panel sends network messages. The Entré IP Address must be unique and cannot be duplicated on the network. Default is 0.0.0.0

**Note:** When entering an IP address be sure to enter the periods and do not enter leading zeros. For example, IP address 192.168.000.125 is entered as 192.168.0.125.

**Entré Outbound TCP Port:** This option displays only if NET is chosen for the Entré connection. Enter the port number for the outbound Entré connection. The port identifies the port used to communicate messages to the Entré software. Default is 2001.

**Entré Backup IP Address:** This option displays only if NET is chosen for the Entré connection. Enter the IP backup address where the panel sends network messages if the first Entré IP Address fails. The Entré IP Address must be unique and cannot be duplicated on the network.

**Note:** When entering an IP address be sure to enter the periods and do not enter leading zeros. For example, IP address 192.168.000.125 is entered as 192.168.0.125.

**Entré Backup TCP Port:** This option displays only if NET is chosen for the Entré connection. Enter the backup port number for the outbound Entré connection in case the connection to the primary IP fails. Default is 2001.

**Entré Checkin:** Select the rate at which check-in messages are sent over the Entré connection. Select 0 (zero) to disable check in messages. Range is 0, 3-240 minutes. Default is 0.

**Entré Passphrase:** To enable encryption enter an 8 to 16-character Passphrase using alphanumeric characters. If you leave the Passphrase blank, the panel communicates with Entré, but the data is not encrypted. The Passphrase is blank by default.

### Program Sync Options

The screenshot shows a dialog box titled "Program Sync" with the following fields:

- Send Local Changes:** A dropdown menu currently showing "Net".
- Remote Change IP:** A text input field containing "0.0.0.0".
- Remote Change Port:** A text input field containing "2002".
- Remote Phone Number:** An empty text input field.

**Send Local Changes (XR100/XR500 Series Version 204 or higher):** This option allows the panel to automatically update a remote programming computer at the central station with any changes made to the panel.

Select NET or DD to send local programming changes or User Menu changes to user codes, user profiles, schedules, or holiday dates to Remote Link after exiting the programming or User Menu. If NET is selected, changes are sent using Network. If DD is selected, changes are sent using Dialer. Select None to disable this feature. Default is None.

**Remote Change IP (XR100/XR500 Series Version 204 or higher):** This option displays when NET is selected for Send Local Changes. The Remote Change IP Address must be unique and cannot be duplicated on the network. Default is 0.0.0.0.

**Note:** When entering an IP address be sure to enter the periods and do not enter leading zeros. For example, IP address 192.168.000.125 is entered as 192.168.0.125.

**Remote Change Port (XR100/XR500 Series Version 204 or higher):** This option displays when NET is selected for Send Local Changes. Enter the Port number. Valid numbers are from 1 to 65535. Default is 2002.

**Remote Phone Number (XR100/XR500 Series Version 204 or higher):** This option displays when DD is selected for Send Local Changes. Enter the phone number the panel dials when sending programming changes. After entering a phone number, the panel sends any panel changes to the Remote Link programming computer.

The phone number can have two lines of 16 characters each to equal 32. Enter a P to program a two second pause in the dialing sequence. The P character counts as part of the 32 allowable characters. Enter \*70P as the string first characters to cancel call waiting. No dial tone detect "D" is required. Dial tone detect is an automatic panel function.