

## XR100 and XR500 Series September 2010

### Version 206 Software Update

Effective October 2010, all XR100 and XR500 Series Command Processor™ panels are being manufactured with Version 206 (9/29/10) 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 sections 7.8 through 7.8.7 of the panel programming guide pages that follow at the end of this notice.

#### 734 Programming

The 734 Wiegand Interface module options can now be programmed in Device Setup as part of panel programming. The new options are outlined in sections 6.15 through 6.15.11 of the panel programming guide pages that follow at the end of this notice.

#### Future Remote Updates

After the panel has been updated to version 206, new improvements to V206 will allow any future panel software updates to be completed in a significantly reduced amount of time.

#### Remote Options

Remote Option programming has been reorganized and updated with new options. The new options are outlined in sections 7.4 to 7.7 of the panel 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 or Entre reporting.

DOOR REAL-TIME
STATUS? NO YES

##### Door Real-Time Status?

Select YES to have real-time door status messages sent for this device. Messages are sent anytime the panel turns the door relay on or off. Default is NO.

SEND DOOR FORCED
MESSAGE? NO YES

##### Send Door Forced Message?

Select YES to have the panel send a real-time door status message of Forced Open (FO) when the door relay is off, but the door zone has transitioned from its normal state. Default is NO.

#### 1100R Input DC Fail Time

When the DC power from the Model 376 transformer is low or removed, the time that must expire before the repeater's zone open messages is sent to the wireless receiver is now three (3) minutes to comply with the 1100R UL Commercial Fire Listing.

The 1100R repeater now transmits an open zone after three (3) minutes if unplugged from the wall or AC power is not present or low.

Previously, the repeater would not transmit the open zone for one (1) hour.



## 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.

REPORT WITH ACCT NO. FOR AREA: 0
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### Report with Account Number for Area

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.

## Updated Operations

### Backup Cellular Communication

When the panel was programmed for NET communication and backup communication was CELL, the cellular path could become unable to communicate with the receiver if the NET path had a brief failure in communication. The indication at the central station would be a loss of the daily test message from the cellular. Performing a reset of the panel would restore cellular communication.

### Cell Signal Strength

When performing a CELL SIGNAL strength test from the Diagnostics menu (2313, DIAG), the number of bars shown now always reflect the signal strength from the cell tower where the panel's SIM card is registered.

Previously, the signal strength shown could be from a closer cell tower. An activated SIM card is now required for cellular signal testing.

### Exit Delay Display

A keypad at address 9 to 16 now displays the exit delay countdown at arming when programmed to do so.

### Ambush Message

When the telephone line was in a trouble condition, a panel Ambush (or Early Ambush) message to be sent to the central station receiver would cause the digital dialer to make 10 attempts to dial no matter the programming set at Alarm Switch for that path.

The 10 attempts to dial only occurred if the panel was programmed for digital dialer Primary path with cellular as the Backup path and only for the Ambush message. All other alarm messages were not delayed and switched to the backup cellular path after the number of dial attempts programmed at Alarm Switch in Communication programming.

An Ambush message (System Message 15) is generated when the panel is programmed for user one to be the Ambush code and a user enters that user code at the keypad. Also, an Early Morning Ambush (System Message 33) is generated when programmed and a second code entry does not occur after entry into the premises.

### Cellular Path Restore

The panel no longer sends a System Message 73 to the central station receiver incorrectly indicating a cellular path restore if cellular message throttling was invoked during a period of known cellular communication failure.

Previously, the panel incorrectly assumed that the cellular path was restored simply because an attempt was made to communicate which started cellular throttling.

### Network Trapping

The panel now allows a remote connect to occur on a primary network path even though a message is being attempted on the backup network path that is in communication failure.

Previously, a Remote Link network trap could not occur on the primary network path.

## Obtaining the New Software

XR100 and 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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## 6.15

PROGRAM 734
OPTIONS? <b>NO</b> YES

### Program 734 Options

Select YES to program the 734 Wiegand Interface Module. Device type must be set to DOOR.

## 6.15.1

ACTIVATE ZONE 2 SHUNT?
<b>NO</b> YES

### Activate Zone 2 Shunt

Select YES to activate the Soft-Shunt™ 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 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 SOFTSHUNT 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.

If you select YES, pressing the COMMAND key displays ZONE 2 SOFTSHUNT TIME. The Back Arrow returns to the Program 734 Options.

## 6.15.2

ZONE 2 SOFTSHUNT TIME:
<b>40</b>

### 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. 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.

Press the COMMAND key to move forward to RELOCK ON ZONE 2 FAULT. The Back Arrow returns to the ACTIVATE ZONE 2 SHUNT option.

## 6.15.3

RELOCK ON ZONE 2 FAULT?
<b>NO</b> YES

### Relock on Zone 2 Fault?

Selecting NO leaves the relay on when Zone 2 faults to an open or short condition during Soft-Shunt. Selecting YES turns the relay off when Zone 2 faults open or short during Soft-Shunt. The default is NO.

Press the COMMAND key to display ACTIVATE ZONE 3 REX:. The Back Arrow returns to the ZONE 2 SOFTSHUNT TIME: option.

## 6.15.4

ACTIVATE ZONE 3 REX?
<b>NO</b> 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 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. If you select YES, pressing the COMMAND key displays ZONE 3 REX STRIKE TIME. The Back Arrow returns to the ACTIVATE ZONE 2 SHUNT option.

## 6.15.5

ZN 3 REX STRIKE TIME:
<b>5</b>

### 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.

Press the COMMAND key to move forward to the ACTIVATE ONBOARD SPEAKER option. The Back Arrow returns to ACTIVATE ZONE 3 REX.

**6.15.6** 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 YES.

Press the COMMAND key to display the CARD OPTIONS option. The Back Arrow returns to ACTIVATE ZONE 3 REX.

**6.15.7** CARD OPTIONS: **DMP**

### Card Options

Press any top row Select key to display options. Press the select key under DMP or CUSTOM 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

**Note: When set to DMP, the 734 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.

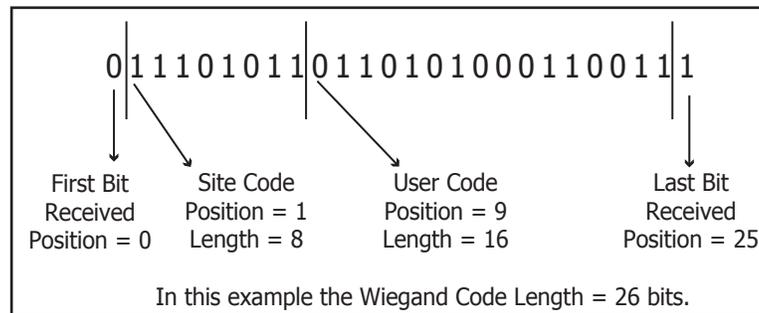
**6.15.8** WIEGAND CODE LENGTH: **26**

### Custom Card Definitions

When using a custom product, 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 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.



**6.15.8.1** 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.

**6.15.8.2** 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.

**6.15.8.3** 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.

**6.15.8.4** 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. Custom numbers can only be a number between 16-32. The default is the DMP value of 16 which is pre-programmed.

**6.15.9** 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.

**6.15.9 .1**

SITE CODE 1: -

## Site Code Display

You can program up to eight three-digit site codes. Site code range is 0-999. Any previously programmed site codes display. Dashes represent blank site codes.

Site Code 1 displays first. Enter a three-digit 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 8 site codes.

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

**6.15.10**

NO OF USER CODE DIGITS: **5**

## Number of User Code Digits

The 734 module recognizes user codes from four to ten digits in length. Press any top row Select key to 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 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.

**6.15.11**

## Degraded Mode

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:.

DEGRADED MODE:  
OFF SITE ANY ON

Choose the Degraded Mode Action required.

DEGRADED MODE:  
RELAY ALWAYS OFF

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.

DEGRADED MODE:  
ACCEPT SITE CODE

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.

DEGRADED MODE:  
ANY WIEGAND READ

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

DEGRADED MODE:  
RELAY ALWAYS ON

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.

DEGRADED MODE:  
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.

DEGRADED MODE:  
PRESERVE LAST

After choosing the action, the DEGRADED MODE option and the newly defined action display.

Programming is now complete. Press the COMMAND key to display DEVICE NO. Press the Back Arrow to return to the NO OF USER CODE DIGITS option.

## Remote Options

- 7.1**  **Remote Options**  
 This section allows you to enter the information needed for Remote Command/Remote Programming operation.
- 7.2**   
  
**Remote Key**  
 This option allows you to enter a code of up to 16 characters. The Remote Link™ program must give the correct key to the panel before being allowed any remote functions. All panels are shipped from the factory with the key preset as blank.  
 To enter a remote key or change the current one, press a top row Select key and enter any combination of up to 16 digits. Press COMMAND. The current key display as astericks.
- 7.3**   
   
**Remote Disarm**  
 YES allows the panel to be disarmed remotely. NO disables remote disarming. Default is NO.
- 7.4**   
    
**Allow Dialer Remote**  
 YES allows remote programming over the phone line. Default is YES.
- Receiver Key Operation:**  
 With YES selected, 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.  
 YES 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 NO is selected, remote commands and programming are not accepted from the SCS-1R Receiver using digital dialer and all memory of receiver keys is cleared.
- 7.4.1**   
  
**Armed Answer Rings**  
 Enter the number of rings the panel counts before answering the phone line when all system areas 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).  
**Answering machine bypass procedure:** Entering a number greater than 0 (zero) into either Armed Rings or Disarmed Rings, allows a central station operator to connect remotely with the panel.  
**How it works:** The operator calls the panel, allows the telephone to ring one time, and then hangs up. The panel stores this as an attempt to communicate. The operator then calls back within 30 seconds. The panel seizes the telephone line to allow remote programming.  
**Note:** This feature does not interfere with the normal operation of the Arm Rings or Disarm Rings functions.
- 7.4.2**   
  
**Disarmed Answer Rings**  
 Enter the number of rings the panel counts before answering the phone line while any system areas are disarmed. Any number from 0 to 15 can be entered. If 0 (zero) is entered, the panel does not answer the phone when any system area is disarmed. The default number is 8 (eight).

# REMOTE OPTIONS

- 7.4.3**  PC MODEM  NO  YES **PC Modem**  
YES allows the panel to answer the telco link and connect with Remote Link through the PC Modem at 2400 baud. NO disables PC Modem communication.
- 7.4.4**  MANUFACTURER  AUTH?  NO  YES **Manufacturer Authorization**  
Select YES to allow DMP Technical Support technicians to access the panel during system service or troubleshooting. This authorization automatically expires within one hour.  
DMP remote service is provided on a read only basis: DMP technicians can look at the system programming and make suggestions only. Alterations can only be accomplished by installing company service personnel.
- 7.5**  ALLOW NETWORK REMOTE?  NO  YES **Allow Network Remote**  
This option displays only if the panel has network capability. YES allows remote programming over the network. Changing this prompt does not change any other network programming prompts. Default is YES.
- 7.5.1**  NETWORK PROG  PORT:  **Network Programming Port**  
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.
- 7.5.2**  ENCRYPT NETWORK REMOTE?  NO  YES **Encrypt Network Remote**  
YES encrypts data sent over network. Default is NO.
- 7.6**  ALLOW CELL REMOTE?  NO  YES **Allow Cellular Remote**  
YES allows remote programming using cellular connection. Default is YES.
- 7.6.1**  FIRST GPRS APN:   **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:   **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.
- 7.6.2**  ENCRYPT CELL REMOTE?  NO  YES **Encrypt Cellular Remote**  
YES encrypts data sent over a cellular connection. Default is NO.
- 7.7**  ALLOW RS-232 REMOTE?  NO  YES **Allow RS-232 Remote**  
YES allows remote programming over the on-board RS-232 port. Default is YES.
- 7.8**  ENTRE CONNECTION:  NONE **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.
- 7.8.1**  ENTRE INCOMING TCP PORT:  **Entré Incoming TCP Port**  
This option displays only if NET is chosen for the Entré connection. Enter the programming port number for the incoming Entré connection. The programming port identifies the port used to communicate messages to and from the Entré software. This port cannot be the same port as programmed in Network Programming Port. The default Programming Port setting is 2011.
- 7.8.2**  ENTRE IP  **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. Enter all 12 digits and leave out the periods. For example, enter IP address 192.168.0.250 as 192168000250. The periods display automatically. Default is 0.0.0.0
- 7.8.3**  ENTRE OUTBOUND TCP PORT:  **Entré Outbound TCP Port**  
This option displays only if NET is chosen for the Entré connection. Enter the programming port number for the outbound Entré connection. The programming port identifies the port used to communicate messages to the Entré software. Default is 2001.

- 7.8.4**   
 **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. Enter all 12 digits and leave out the periods. For example, enter IP address 192.168.0.250 as 192168000250. The periods display automatically. Default is 0.0.0.0
- 7.8.5**   
 **Entré Backup TCP Port**  
 This option displays only if NET is chosen for the Entré connection. Enter the backup programming port number for the outbound Entré connection in case the connection to the primary IP fails. Default is 2001.
- 7.8.6**   
 **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.
- 7.8.7**   
 **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.
- 7.9**   
 **Send Local Changes**  
 This option allows the panel to automatically update Remote Link 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. Default is NO to disable this feature.
- 
- 7.9.1**   
 **Remote Change IP**  
 This option displays when NET is selected for Send Local Changes. Enter the IP address containing up to 12 digits. The Net IP Address must be unique and cannot be duplicated on the network. Enter all 12 digits and leave out the periods. For example, enter IP address 192.168.0.250 as 192168000250. The periods display automatically. Default is 000.000.000.000
- 7.9.2**   
 **Remote Change Port**  
 This option displays when NET is selected for Send Local Changes. Enter the Port number. Valid numbers are from 0 to 65535. Default is 2002.
- 7.9.3**   
  
 **Remote Telephone Number**  
 This option displays when DD is selected for Send Local Changes. Press COMMAND to enter the phone number the panel dials when sending programming changes. After entering a phone number, the panel sends any panel changes to Remote Link.  
 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. Dial tone detect is an automatic panel function.