

WIRELESS OPTIONS

XR500 Series PROGRAMMING OPTIONS FOR WIRELESS OPERATION

**XR500 SERIES
COMMAND PROCESSOR™ PANELS**

List of Wireless Specific Prompts

The following listed Sections are included for reference. Use these sections to configure your wireless equipment. A box indicates the specific wireless prompt(s) on each page

Date	Section Number and Heading	Quick Explanation of Changes
8/06	8.15 House Code	Option added for new wireless programming operation.
	8.16 Detect Wireless Jamming	Option added for new wireless programming operation.
	12.3 System Monitor Troubles	Added wireless trouble messages.
	16.2 Zone Number	Added zone numbers for new wireless programming operation.
	16.9 Next Zone	Revised to cover new wireless programming operation.
	16.10 DMP Wireless	Section added for new wireless programming options.
	16.11 1100 Series Wireless Key Fobs	Section added for new wireless programming options. Note: Subsequent section numbers changed.
	20.12.2 LX-Bus Zone Types	Added table and text to reflect new DMP Wireless options.

Wireless Prompts

The outline box surrounding a section indicates that the section includes new Wireless programming prompts.

1.0	WIRELESS PROMPT	New Wireless Prompt Text to describe the prompt.
------------	------------------------	--

MODEL XR500 SERIES COMMAND PROCESSOR PROGRAMMING GUIDE - SELECTED PAGES

© 2003 - 2006 Digital Monitoring Products, Inc.

Information furnished by DMP is believed to be accurate and reliable.

This information is subject to change without notice.

8.14

BYPASS LIMIT	0
--------------	---

Bypass Limit

Enter the maximum number of zones (0 to 8) that can be bypassed in any single area when that area is being armed at a keypad. If more zones than the limit are in a non-normal state or already bypassed at arming, arming does not occur and Arming Stopped displays. The Bypass limit does not affect auto arming, keyswitch arming, or remote arming. Entering 0 (zero) allows no limit. Default is 0 (zero).

8.15

HOUSE CODE:	XX
-------------	----

House Code

When using a DMP wireless system, enter a house code between 1 and 50. When using FA Series wireless enter 99. See Wireless programming in Zone Information. Default is 0 indicating no wireless system is being used.

The DMP house code identifies the panel, DMP receiver, and DMP transmitters to each other. When operating, the DMP receiver listens for transmissions that have the programmed house code and transmitter serial number.

Note: The flexibility of DMP two-way wireless operation allows an existing house code to be changed in the panel at any time. The transmitters may take up to two minutes to learn the new house code and continue operation.

Note: When any wireless zone programming is changed in the panel, wireless receiver zone programming is updated. At that point, all wireless zones display as normal for approximately 1 minute, regardless of the actual state of the zone.

8.16

DETECT WIRELESS JAMMING:	NO YES
-----------------------------	--------

Detect Wireless Jamming

This option displays when the House Code entered is for a DMP 1100 Series Wireless system (1-50). When enabled and the wireless receiver detects jamming, a trouble or alarm message displays in the Status List and is sent to the central station receiver. Select YES to enable jamming messages to display in the Status List. Select NO to disable jamming messages. Default is NO.

8.17

KEYPAD PANIC KEYS ENABLED:	NO YES
-------------------------------	--------

Enable Keypad Panic Keys

This option allows the two-button panic key operation selected at the keypad to send the Panic, Emergency, or Fire message to the central station receiver. Select YES to enable the two-button panic operation to operate. To disable the two-button panic operation, select NO. Default is YES.

DMP Wireless

For a DMP 1100X Wireless Receiver set the House Code from 1 to 50. See House Code programming in System Options. Zones 500 through 999 can be programmed as Wireless zones. Set the XR500 Series panel J23 jumper to X to enable on-board DMP Wireless operation. Briefly reset the panel using the J16 jumper to activate Wireless operation. Refer to the XR500 Series Installation Guide (LT-0681).

For an 1100 Series Key Fob see section 16.11.

For an FA Series Remote Wireless Receiver see section 16.12.

NOTE: All wireless programming is stored in the XR500 Series panel. The 1100X Wireless Receiver obtains the necessary programming information from the panel each time the receiver powers up, when the programmer STOP routine is selected or the panel is reset. The receiver memory refresh takes up to 10 seconds to complete depending on the number of wireless zones programmed and the Red LED remains on during this time. Normal receiver operation is inhibited during the memory refresh period.

16.10

ZONE INFORMATION
WIRELESS? **NO** YES

Wireless

Select YES to program this zone as a DMP wireless zone. You must program the wireless House Code prior to adding DMP wireless zones to the system. See House Code programming in System Options. Default is NO.

16.10.1

TRANSMITTER
SERIAL#: XXXXXXXX

Serial Number Entry

Enter the eight-digit serial number found on the wireless device.

ALREADY IN USE
ZONE NUMBER: XXX

This prompt displays when the serial number is already programmed for another zone. The programmed zone number displays.

16.10.2

TRANSMITTER
CONTACT:XXXXXXXX

Contact

This option displays if the serial number entered is for an 1101 Universal Transmitter. Press any top row Select key to choose internal or external contacts. Default is INT.

TRANSMTR CONTACT
INT EXT

This option displays when programming an 1101 Transmitter. Select INT to use the internal reed switch contacts. Select EXT to connect an external device to the 1101 terminal block.

Note: The 1101 Universal Transmitter serial number may be programmed for two zones provided the Contact type (INT or EXT) is programmed differently for each zone.

ALREADY IN USE
ZONE NUMBER: XXX

This message displays when the Contact type (INT or EXT) is already programmed for another zone. The programmed zone number displays.

By allowing both of the Model 1101 Universal Transmitter contacts (INT and EXT) to be used at the same time, two zones may be programmed from one transmitter.

For example, program transmitter serial number 01345678 as Zone 521 with an INT contact type. Then program the same transmitter serial number 01345678 as Zone 522 with an EXT contact type. The same serial number is used for both zones.

Note: When using both contacts, you must use consecutive zone numbers. For example, zones 531 and 532 or zones 890 and 891 are acceptable zone assignments.

ZONE INFORMATION
NORM OPN **NO** YES

This option only displays when EXT is selected as the Contact type. For external devices connected to the 1101 terminal block, select NO to use normally closed (N/C) contacts. Select YES to use normally open (N/O) contacts. Default is NO.

16.10.3

TRANSMITTER
SUPRVSN TIME: XXX

SELECT MINUTES:
0 3 15 **60**

Supervision Time

Press any top row key to select the supervision time required for the wireless zone. Press COMMAND to accept the default time. Default is 60 minutes.

Press the Select key under the required number of minutes. The transmitter must check in at least once during this time or a missing condition is indicated for that zone. 1100 Series transmitters automatically checkin based on the supervision time selected for the wireless zone, no additional programming is needed. If two zones share the same transmitter, the last programmed supervision time is stored as the supervision time for both zones. Zero (0) indicates an unsupervised transmitter.

Note: When the panel is reset or a receiver is installed or powered down and powered up, the supervision timer restarts for all wireless zones.

16.10.4

LED OPERATION
NO **YES**

LED Operation

Select YES to turn on an 1142 Hold-up transmitter LED during Panic or Emergency operation. Select NO to turn the LED off during Panic or Emergency operation. The LED always operates when the transmitter case is open and the tamper is faulted. Default is YES.

Note: For UL listed holdup installations, set LED Operation to NO.

16.10.5

NEXT ZONE NO **YES**

Next Zone

Select YES to return to the ZONE NO: - prompt to program a new zone. Select NO to display the Alarm Action option.

1100 Series Key Fobs

For an 1100 Series Key Fob set the House Code from 1 to 50. See House Code programming in System Options. Only zones 400 to 449 can be programmed as 1100 Series Key Fob zones. Refer to the 1100 Series Key Fob Programming Sheet (LT-0706) supplied with the 1100X Wireless Receiver and the 1100 Series Key Fob Install Guide (LT-0703) as needed.

After entering the zone number, enter a key fob user number.

16.11.1

KEY FOB USER
NUMBER: XXXX

Key Fob User Number

Enter the User Number (1-9999) used to identify the key fob user and their arming and disarming authority. Default is blank.

16.11.2

TRANSMITTER
SERIAL#: XXXXXXXX

Key Fob Serial Number

Enter the eight-digit serial number found on the wireless device.

16.11.3

TRANSMITTER
SUPRVSN TIME: XXX

SELECT MINUTES:
0 3 15 60

Key Fob Supervision Time

Press any top row key to select the supervision time required for the key fob zone. Press COMMAND to accept the default time. Default is 0 for key fobs.

Press the Select key under the required number of minutes. The key fob must check in at least once during this time or a missing condition is indicated for that zone. 1100 Series key fobs automatically checkin based on the supervision time selected for the wireless zone, no additional programming is needed. Zero (0) indicates an unsupervised transmitter.

Note: When the panel is reset or a receiver is installed or powered down and powered up, the supervision timer restarts for all wireless zones.

16.11.4

NO. OF KEY FOB
BUTTONS: X

Number of Key Fob Buttons

Enter the number of buttons (1, 2, or 4) on the key fob being programmed.

Note: If the key fob is a one-button model, programming continues at the Button Action section. Default button assignment for one-button key fobs is a Panic Alarm (PN) with no output assigned.

16.11.5

BUTTON:
TOP BTM LFT RGT

Key Fob Button Selection (Four Buttons)

This prompt only displays if the key fob being programmed is a four-button model. Press the Select key under the key fob button to program. The following list identifies the default button assignments:

- TOP Arming with no areas assigned
- BTM Disarming with no areas assigned
- LFT Panic Alarm (PN) with no output assigned
- RGT Arming with Area 1 assigned

16.11.6

BUTTON:
TOP BTM

Key Fob Button Selection (Two Buttons)

This prompt only displays if the key fob being programmed is a two-button model. Press the Select key under the key fob button to program. The following list identifies the default button assignments:

- TOP Arming with no areas assigned
- BTM Disarming with no areas assigned

16.11.7

BUTTON ACTION
yyy: XXXXXXXX

Button Action

This option specifies the Button Action for an individual key fob button. The default action for the button selected is displayed. Press any Select key to display the Button Action options. To view more options press the COMMAND key.

yyy = the name of the button being programmed (TOP, BTM, LFT, RGT).

BUTTON ACTION
ARM DIS TGL STA

ARM (Arm) - Arms selected areas and force arms bad zones.

DIS (Disarm) - Disarms selected areas.

TGL (Toggle Arm) - Toggles arm/disarm for selected areas and force arms bad zones when arming.

STA (Status) - Causes the key fob LED to indicate the arm/disarm status of the system.

BUTTON ACTION
PN PN2 EM EM2

PN (Panic) - Triggers a Panic zone type alarm with no restoral.

PN2 (Panic 2) - Triggers a Panic zone type alarm with no restoral when pressed simultaneously with any other Panic 2 button. No action occurs when pressed alone.

EM (Emerg) - Triggers an Emergency zone type alarm with no restoral.

EM2 (Emerg 2) - Triggers an Emergency zone type alarm with no restoral when pressed simultaneously with any other Emergency 2 button. No action occurs when pressed alone.

BUTTON ACTION
OUT RST UN

OUT (Output) - Causes an output to turn on steady, pulse, momentary, toggle or off.

RST (Sensor Reset) - Causes the panel to perform a standard Sensor Reset.

UN (Unused) - The button is not used and performs no action.

16.11.8

BUTTON
PRESS TIME: XXXXX

Button Press Time

This option specifies the amount of time (SHORT or LONG) the user must press the button before the key fob sends a message to the wireless receiver. The default press time displays. Press any Select key to set the Button Press Time for Arm, Disarm, Toggle, Status, Output, and Sensor Reset.

Note: The Button Press Time is not programmable on Panic (PN or PN2), Emergency (EM or EM2) or Unused (UN) zones. For those zones the button press time is always two (2) seconds.

PRESS TIME:
SHORT LONG

SHORT - Press the button for one-half (1/2) second to send the message to the wireless receiver.

LONG - Press the button for two (2) seconds to send the message to the wireless receiver.

16.11.9

ARM/DIS AREAS:

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32

Arm/Disarm Area Selection

Press the COMMAND key to program Arming and Disarming Areas. To select an area between 1 and 32, enter the area number using the keypad digit keys. When an area is selected, an asterisk appears next to the area number. Enter the number again to deselect the area. Press COMMAND to display the next set of areas. Refer to the Multiple Displays section at the beginning of this document. Default is no areas enabled.

In order to arm or disarm selected areas, the Profile assigned to the User Number needs to have the same area numbers selected. Any area may be selected at Arm/Disarm Areas but only matching area numbers are armed or disarmed when the specific button is pressed. For example, in Areas selection, areas 1, 3, and 7 are selected. In the User Profile Arm and Disarm Areas, areas 1, 2, 4, and 7 are selected. When the user presses the button to Arm or Disarm area(s), only matching areas 1 and 7 Arm/Disarm.

Note: When more areas are selected at Arm/Disarm Areas than are authorized in the User Profile, in the future the user can be given access authority to additional areas through the User Profile without requiring additional panel programming to select Arm/Disarm Areas. See User Profiles in the Appendix or refer to the XR500 Series User's Guide (LT-0683).

After selecting the area numbers, for one-button key fobs the Zone No.: prompt displays. For two-button or four-button key fobs, the Key Fob Button Selection option displays to program additional buttons.

16.11.10

OUTPUT NO: XXX

Output Number

You can specify a relay output to operate when OUT (Output), PN (Panic), PN2 (Panic 2), EM (Emergency), or EM2 (Emergency 2) is selected for a key fob Button Action and the button is pressed. Valid range is 1 to 6, 500 to 999, D1 to D16, or G1 to G20. For an area turned on by a PN, PN2, EM, or EM2 button action, the output turns off when any area is disarmed.

To enter an output number, press a top row Select key followed by the output number. Press the COMMAND key.

16.11.11

OUTPUT ACTION: yyy: XXXXXXXX

Output Action

This option allows you to define the output action (STD, PLS, MOM, TGL, OFF) for the selected output number. The default is Steady.

yyy = the name of the button being programmed (TOP, BTM, LFT, RGT).

xxxxxxx = the currently defined output action.

OUTPUT ACTION? STD PLS MOM TGL

STD (Steady) - The output is turned on and remains on.

PLS (Pulse) - The output alternates one second on and one second off.

The pulsing rate for a Model 716 relay attached to the LX-Bus is 1.6 seconds.

Note: Pulse is not available for key fob button output programmed D1 to D16 or G1 to G20.

MOM (Momentary) - The output is turned on only once for one second.

TGL (Toggle) - The output alternates between the on state and off state. Each button press toggles the output state.

Note: Toggle is not available for key fob button output programmed G1 to G20.

OUTPUT ACTION? OFF

OFF (Off) - The output is turned off. If programmed, the output was turned on by some other means such as another button press, a zone action, or a schedule.

Note: When the output is assigned to PN/PN2 or EM/EM2 button action and is turned on, the output turns off when any area is disarmed.

When the output action is steady, pulse or toggle and the output is turned on, the output remains on until:

- the output cutoff time expires
- the output is reset from the keypad menu
- toggled off

ZONE INFORMATION

16.11.12 ☐ NEXT ZONE NO ☐ YES

Next Zone

Select YES to return to the ZONE NO: - prompt to program a new zone. Select NO to display the Alarm Action option.

Note: All wireless programming is stored in the XR500 Series panel. The 1100X Wireless Receiver obtains the necessary programming information from the panel each time the receiver powers up, when the programmer STOP routine is selected or the panel is reset. The receiver memory refresh takes up to 10 seconds to complete depending on the number of wireless zones programmed and the Red LED remains on during this time. Normal receiver operation is inhibited during the memory refresh period.

FA Series Wireless

For an FA Series Remote Wireless Receiver set the House Code to 99. See House Code programming in System Options. Only zones 500 to 699 can be programmed as FA Series Wireless zones for maximum of 200 Wireless Zones.

For a DMP 1100X Wireless Receiver see section 16.10.

16.12

☐ ZONE INFORMATION
WIRELESS? NO ☐ YES

Wireless

Select YES to program a wireless zone connected to an FA Series FA400-DMP Remote Wireless Receiver. Press the COMMAND key to continue with wireless programming.

16.12.1 ☐ CHECK IN TM: 60

Check-in Time

You can set wireless transmitters to check in automatically every 10, 30, or 60 seconds or not at all. To change the 60 second default, press any top row Select key to display NONE 10 30 60. Select the check-in time you want for this zone.

16.12.2 ☐ INT CONT NO ☐ YES

Internal Contact

Select YES to use an internal contact on the wireless transmitter. Select NO to use an external contact. When you select NO, the following two prompts display.

16.12.3 ☐ EOL NO ☐ YES

End-of-Line

Select YES to supervise an external contact connected to the wireless transmitter. At the contact, install a 2.2k Ohm End-of-Line resistor in parallel for Normally Open contacts and in series for Normally Closed contacts.

16.12.4 ☐ NRM OPEN NO ☐ YES

Normally Open

Select NO if the contact connected to the wireless transmitter is Normally Closed.

16.12.5 ☐ NEXT ZONE NO ☐ YES

Next Zone

Select YES to return to the ZONE NO: - prompt to program a new zone. Select NO to display the Alarm Action option.

XR500 Series LX-Bus Zone Information		Type	Area	Fire Bell	Wireless	DMP Wireless			FA Series Wireless			Disarmed Open		Disarmed Short		Armed Open		Armed Short		Swinger	Entry Delay	Retard Delay	Presignal	Fast Response	Cross Zone	Priority	TGL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Assign Disarm condition for NT, DY, EX, A1, and A2 only. Assign Prewarn and Entry Delay for EX only. Assign Retard and Presignal for FI, SV, A1, and A2 only.		--	1 to 32	Output *	N	Contact	EXT Contact N/O?	Supervision Time	LED Operation	Check-in Time	FA Series Wireless		Output *	Action	Output *	Action	Output *	Action	Output *	Action	Prewarn	1	N	or	Y	16	Y	Y	Y																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		NT									INT	N																		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

* Output Options: 1 to 6, 500 to 999, D1 to D16, G1 to G20. ... = Output action defaults to S. + = Set retard to YES before selecting presignal. ■ = Zone functions not available.

20.12.2 LX-Bus Zone Type Defaults

These are complete spellings of the abbreviations used for the zone types, such as Night and Exit.

Type - These are the abbreviations used for the zone types, such as NT and EX.

Area - 1 to 32 for NT, DY, EX, A1, A2, and AR.

Fire Bell Out - Only available for FI, FV, and SV zones. Use any output zone number listed.

Wireless - This indicates wireless equipment is being used.

DMP Wireless - These options are for use with the DMP 1100X Wireless Receiver.

FA Series Wireless - These options are for use with the FA400-DMP Remote Wireless Receiver.

Message - A = alarm report, T = trouble report, L = local, no report, — (dash) = no report, D = door propped (When SV zone is connected to 303 Silence/Reset Switch), S = sensor reset/alarm silence, C = early morning ambush cancel.

Output - These are the 6 on-board and 500 off-board relay outputs, D1 to D16, and G1 to G20.

Action - This selects the action of the output: S = steady, P = pulse, M = momentary, and F = follow

Swinger - The zone can be automatically shunted after a programmed number of trips.

Prewarn - This selects the keypad address that sounds the entry prewarn for this zone.

Entry Delay - This is the entry delay timer selected as the default for this zone.

Retard Delay - Provides a programmed retard time before an alarm initiates from a shorted zone. When used on an arming zone, the retard delay occurs when the zone is shorted before the armed state has changed. If the arming zone has Maintain as the Style, the retard delay also occurs when the zone returns to a normal state.

Presignal - Provides a keypad tone for zones in retard delay. Retard must be YES before Presignal can be selected.

Fast Response - Provides a 167ms zone response instead of the normal 500ms response.

Cross Zone - Provides cross zoning with any of the 574 zones.

Priority - Requires this zone to be in a normal condition before the area can be armed.

Style - The abbreviations for arming zone style: TGL = Toggle, ARM = Arm only, DIS = Disarm only, STEP = Wireless arming, MNT = Maintain



800-641-4282
www.dmp.com
Made in the USA

INTRUSION • FIRE • ACCESS • NETWORKS
2500 North Partnership Boulevard
Springfield, Missouri 65803-8877

LT-0911 (8/06) © 2006 Digital Monitoring Products, Inc.

