

DS7400Xi Control/Communicator

Terminal Wiring & Programming



Control Terminal Wiring





Before servicing, remove all power including the transformer, battery and phone line.

A complete functional test is required after any programming.



Incorrect connections may result in damage to the unit.



System is Power Limited except for battery terminals. All wiring entering the enclosure must be power limited.



2	+	EARTH GROUND: Must be connected to a good earth ground such as a cold water pipe and also connected to the cabinet cover using the supplied wire jumper.
3	A C	A/C INPUT: Use U.L. listed, 18 VAC 50 VA, class 2
4		transformer. Model TR-1850 requires 50/60 Hz. unswitched dedicated outlet. Do not share.
5	_	ALARM OUTPUT: Provides 12 VDC, special application, up to
6	Α	1.75A for powering bells, sirens drivers, etc. Function programmed in address 0146
7		AUXILIARY POWER: Provides 12 VDC, special application,
8	+	up to 1.0A for powering detectors.

DS7400Xi Panel Wiring & Programming





OPTIONS BUS:

Used for options such as the ARDIS communications module, the DS7420i Dual Phone Line module, etc. Also for keypads #11 - #15.

For Commercial Fire Mode: Option Bus Wiring must be run in conduit if run outside the enclosure.

Options Include:

DS7412 RS-232 Interface Module

DS7488 Octal Relay Module

DS7489 Octal Open Collector Module

DS7420i Commercial Fire Module

DS7416 ARDIS Transmitter X7410 X10 Interface Module

DS7400Xi Panel Wiring & Programming



KEYPAD BUS*: Up to 15 keypads** may be used. Can be "home-run" or "daisy-chained." * = Maximum wire length each: 1000 ft. (305 m). Max. wire length total in system: 6000 ft. (1830 m) when using #22 AWG (.8mm) or #18 AWG (1.0mm) cable.

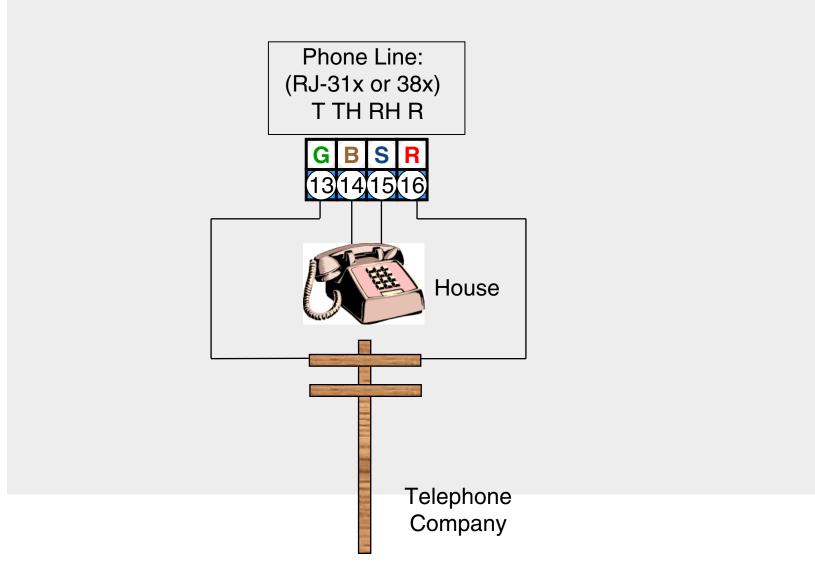
** = Keypads #1 - 10 connect to the Keypad Bus. Keypads #11 - 15 connect to the Options Bus.

R B G Y
9 101112

Keypads #1 - 10

Shared cable is not recommended for keypad bus, multiplex bus, options bus, telephone, or siren wiring.







PROGRAMMABLE OUTPUTS:

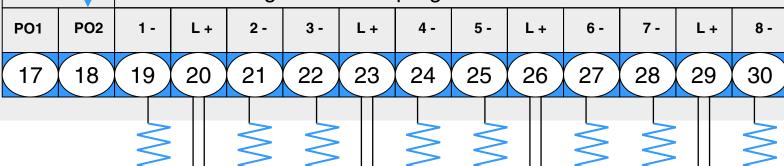
PO1 shorts to aux. power negative when activated. PO1 can sink up to 1.0A. PO1 function programmed in address 0147.

PO2 supplies 12 V and up to 500 mA when activated. PO2 function programmed in address 0148.

ZONES 1-8: Intended for connection of Normally Open or Normally Closed alarm contacts. May be used for compatible 2-wire smoke detectors. These zones require a 2.21KW resistor (P/N 25899) at the end of the loop.

Power is momentarily removed from L+ after a [PIN]+[System Reset] or during fire verification.

Zone 1-8 assignments are programmed in addresses 0018-0025.



DS7400Xi Panel Wiring & Programming



Wiring & Programming for Installations using Ademco AB-12 Housing

Disconnect wire jumper from terminal 4 to inner housing of Bell Box.

(Prevents a ground fault condition)

Connect wiring between control and Bell Box as shown next slide.

To use AB-12 Bell/Housing, cut jumper wire "JP1" on control.

EOL used in AB-12 Bell / Housing must be 27K ohms.

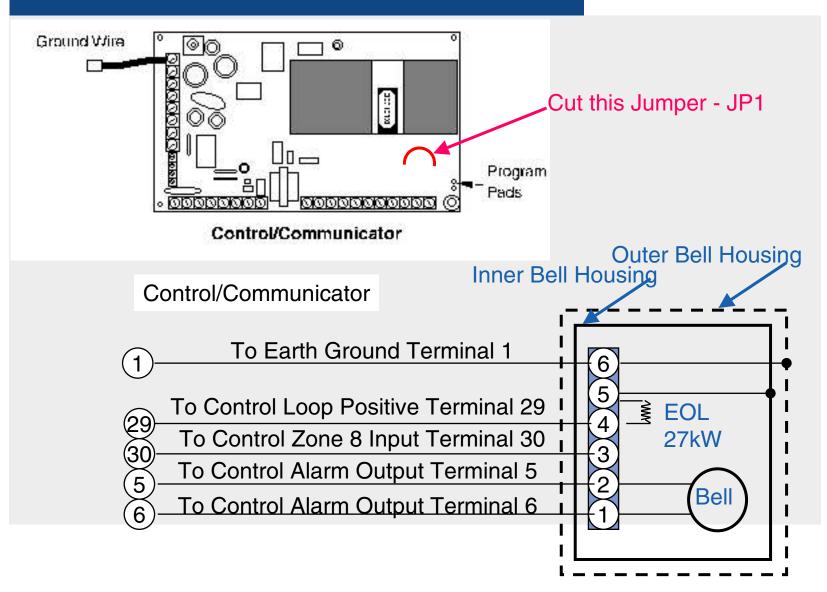
Program Zone 8 as 24-hour zone by programming it to follow zn function 7.

(Program address 0025 should be 07)

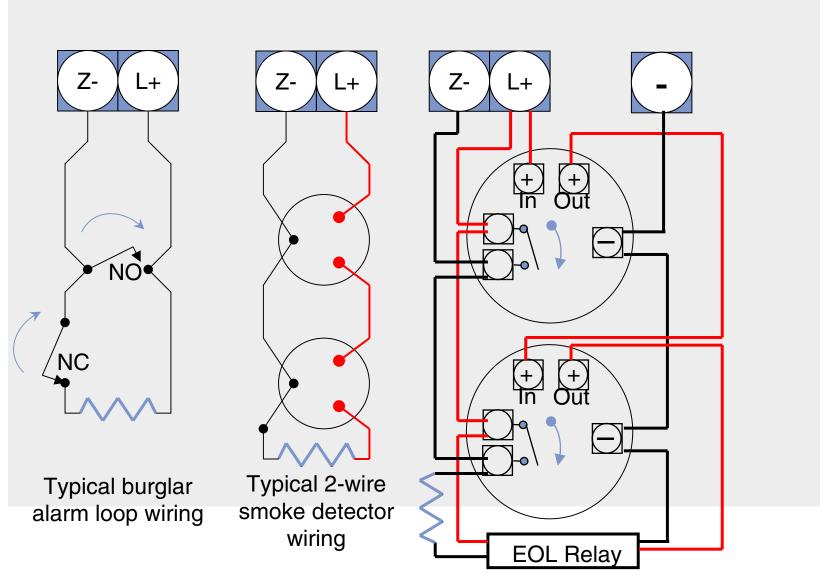
Do not change default programming of zone function 7.

(Program address 0007 should be 22)

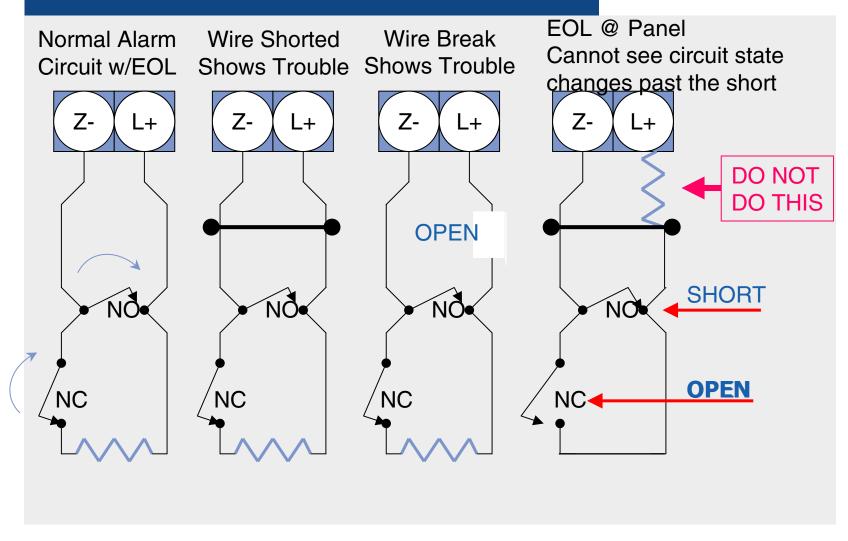






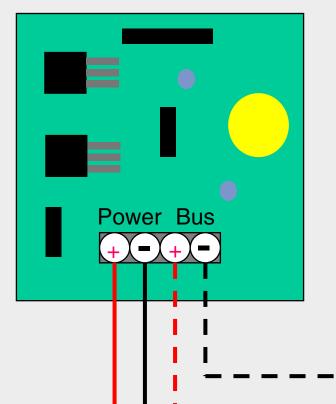








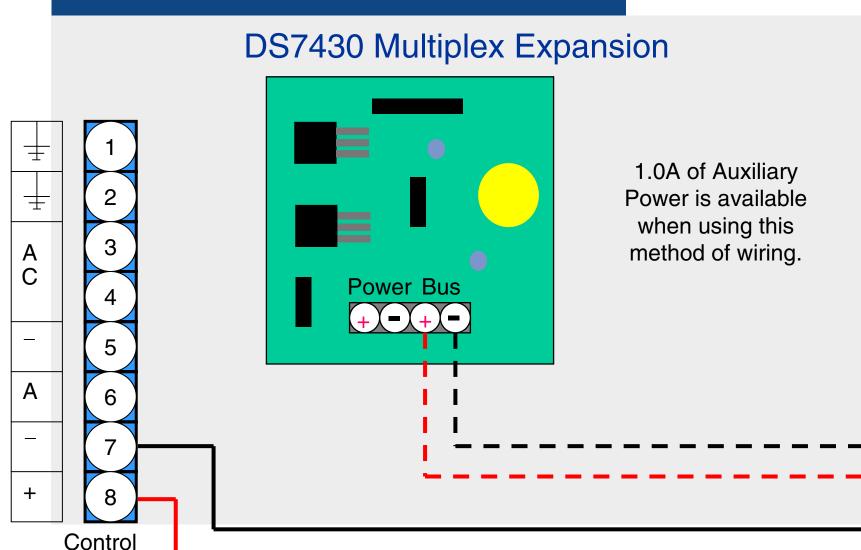
DS7430 Multiplex Expansion



Plug into the Expansion Port of the control.

200mA of Auxiliary Power available for powering devices.

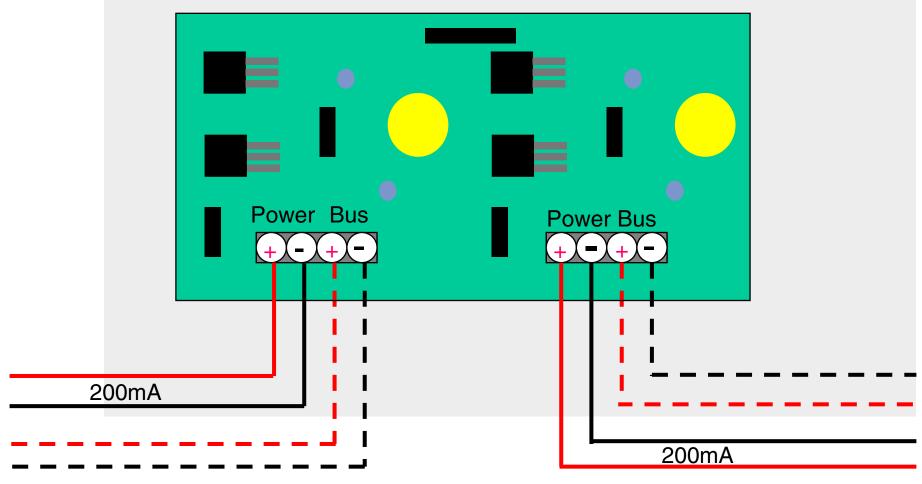




DS7400Xi Panel Wiring & Programming



DS7436 Multiplex Expansion



DS7400Xi Panel Wiring & Programming



Using the Reference Guide

Sections

The Cover - Keypad Quick Reference

Specifications

Enclosure Installation & Terminal Wiring

Quick Start Guide

System Worksheet - Helps with system planning

System Overview/Glossary - Explains most important terms

Operating Guide

Programming

U.L. Listed Systems Guide

Communicator Formats Guide

Troubleshooting Guide -

Solutions to most common problems



DS7400Xi Version 3.04

1) Fire Walk Test (V3.04)

Revision 3.04 incorporates a "Fire Walk Test" to allow the manual testing of all fire zones in the panel.

Two reports --

"Fire Walk Test" and "Fire Walk Test Restore"

are available

to notify the Central Station that the Fire Walk Test is in progress.

No fire alarm reports are sent during the Fire Walk Test.

DS7400Xi Panel Wiring & Programming



DS7400Xi Version 3.04

2) Multiplex Smoke Detectors (V3.04)

The DS7400Xi has the capacity to use

Detection Systems MX280 Series Multiplex Smoke Detectors.

These Low Profile Smoke Detectors mount directly to the Multiplex Bus and have the ability to self monitor the sensitivity of the detector using the ChamberCheck feature.

When a smoke detector is out of its sensitivity range, the keypads display "Dirty Chamber," and the panel may be programmed to send a "Dirty Chamber" report to the Central Station.

The MX280THL Smoke Detector also has the ability to send a Low Temperature ("Freeze Alarm") report when the temperature in the building is less than 45 degrees F for 30 minutes or more.

The MX280 Series Smoke Detectors became available during 1998.



DS7400Xi Version 3.04

3) Auto Arm Sounders (V3.04)

You may now select (in addresses 0202-0205) whether or not the sounders are activated during the Auto Arm period.

4) Battery Test (V3.04)

The internal battery is now automatically tested every two minutes.

5) ROM Size Change (V3.03)

Revision 3.03 and higher of the DS7400Xi now uses a 32-pin ROM.

The board revision required for this ROM is 29230F.

Controls manufactured prior to the introduction of the 32 pin socket included a 28 pin socket.

They cannot be upgraded using version 3.03 or above.



6) LED Keypads Zone Display (V3.03)

The LED keypads were only displaying the lowest numbered zone when multiple zones were faulted.

LED keypads now properly display all faulted zones (for which an LED exists).

LED keypads will still only display zones 1 through 8 (for DS7445) or 1 through 6 (for DS7443).

7) Outputs Following Panic/Duress (V3.03)

Outputs configured to follow Panic/Duress events assigned to All Partitions come on for any panic/duress event.

Those outputs also energize, as stated in Reference Guide Section 8.4, for any Silent or Invisible zone violation.



8) Duress PIN Operation (V3.03)

When using the Duress PIN to disarm a partition when in single partition mode on a master keypad, the user is able to toggle through all partitions using # - #.

Any outputs configured to follow Panic/Duress events remain on until a valid PIN + OFF sequence is issued by a user with at least General Authority.

9) ARDIS Acknowledgment Wait Time (V3.02)

In response to an ARDIS requirement, the time the panel waits for an acknowledge signal from ARDIS was increased from 30 to 45 seconds.



10) "Not Ready" Display Changes (V3.02)

The "Not Ready" display indicates the number of the violated zone in all cases except for Invisible zones.

Invisible zones that are violated do not display until a PIN + OFF sequence is entered.

On a master keypad, an area with a violated invisible zone displays "Not Ready," but does not display any zone number.

11) Arming During the Auto-Arm Warning Period (V3.01)

When a panel is disarmed after having been armed during the Auto-Arm Warning period, a subsequent PIN + OFF sequence no longer initiates another 30 minute Auto-arm timer.



Programming the DS7400Xi Control Communicator Version 3.0



DS7400Xi Panel Wiring & Programming



Addressing a Multiplex Sensor

Must be done prior to installation of the device

Program Zone.

Address 0026-0145 must be programmed before addressing sensor.

Disconnect the multiplex bus. Only one device (the one being addressed) should be connected to the bus at this time

If using BUSLOC, program BUSLOC code

BusLoc code (address 9999) is a special anti-takeover code that is programmed into the sensors

BusLoc code in panel must match BusLoc code in sensors; control can't be replaced using these sensors unless you know BusLoc code.

Enter multiplex programming mode. Enter Address 9995.

Connect sensors one at a time, and follow instructions on LCD.



Addressing a Multiplex Sensor

D5060 Multiplex Point Programmer

Handheld programming tool.

Programs DS point modules, contacts, multiplex motion detectors.

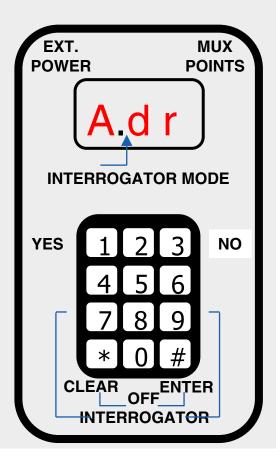
Take the D5060 to the point.

Powered by two 9VDC batteries. [Approximately 12 hours of use.]

Can also be powered by 16.5VAC transformer.



D5060 Multiplex Point Programmer





Point Type Entry Codes

<u>Value</u>	Point Type
0	Remove Point
1	Contact
2	Sensor or Single Point
3	Input / Output Module
4	Mux Smoke without Low Temp
5	Mux Smoke with Low Temp
6	Dual Point



Multiplex Point Programmer Displays and Meanings

Display	<u>Meaning</u>
Adr	Enter Address
A.dr	Enter Address for Interrogation Mode
bAd	Battery Voltage is below 15 volts
Err	Point was not programmed correctly
Lob	Battery Voltage is below 16 volts
noP	No Response from Point
rSP	Point Responds to Address
tYP	Enter Point Type
t.YP	Enter Point Type for Interrogation Mode

DS7400Xi Panel Wiring & Programming



WDSRP Remote Programmer

Windows Detection Systems Remote Programmer

Unattended Capability

One program for all DS controls

Windows 3.1 or Windows 95

Multiple Sessions

Up to 4 phone lines at once

See separate Powerpoint Presentation:

"Windows Detection Systems Remote Programming"

DS7400Xi Panel Wiring & Programming



How to connect to WDSRP

Manual call - Someone on site

Call the panel location from a phone connected to the computer

Once connection to location completed, press MANUAL at WDSRP.

Wait for carrier tone then press #86 at the keypad

Data Call

Panel programmed to answer - it will

Panel not programmed to answer, press #86

Automatic Call - Panel calls WDSRP

Programmed to Call on a time basis - or -

Forced to Call by keypad command - #83

Must have the following programmed:

Account ID #1

Phone #1

Phone #3



Programming From the Keypad

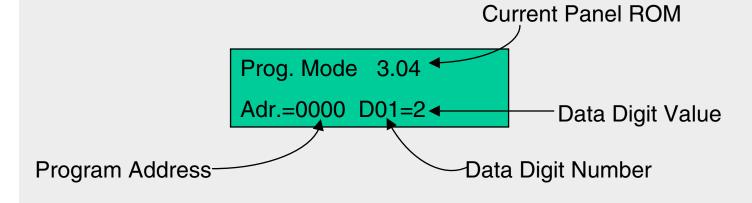
Enter the program mode

Default password is 9876 # 0 -or-

Short Program Pads

4 digit Program Address (always)

2 digit value (usually)



DS7400Xi Panel Wiring & Programming



Programming From the Keypad

To enter data:

Enter the address

Enter the Value

Press the # to accept

Prog. Mode 3.04

Adr.=0000 D01=2

To read data:

Enter the address

Press the #

Continue with # through addresses

Tip: Programming mode will automatically scroll to next address.

You only need to enter one address in a sequence.



Programming From the Keypad

If you wish to program a different address, press the * key two times and enter the program address you wish to program.

If you make a mistake at any time, press the * key two times before pressing the # key.

This will clear the display, allowing you to enter the program address with which you wish to work.



Programming From the Keypad

Entering Hexadecimal Characters

Used when entering values greater than "9"

Press * then
$$0 - 5$$
 (* = a value of 10)

Hex characters values are:

DS7400Xi Panel Wiring & Programming



Programming From the Keypad

	0	1	2	3	4	5	6
Feature 1					•		
Feature 2							
i eature 2							

Defaults

The DS7400Xi is shipped from the factory as a working, pre-programmed control.

Many of the programming addresses may already be set to the values you need.

The default values are shown in Reverse Print

In the example above, a 0 is the default value.

If the default value is not shown in Reverse Print, it will be shown in a separate table.

DS7400Xi Panel Wiring & Programming



Programming From the Keypad

Setting the Control to the Factory Default

	0	1	2	3	4	5	6
Feature 1							
Feature 2							
						_	

Entering [0] [1] [#] in Program Address 4058 will immediately reset the control to the factory default.

Any programming already done by the installer will be erased.

This action cannot be reversed.

Only enter [0] [1] [#] in Program Address 4058 when you are completely sure you want to erase all installer programming.

To set the control's programming values back to the default, enter the programming mode, then enter [4] [0] [5] [8] [0] [1] [#].



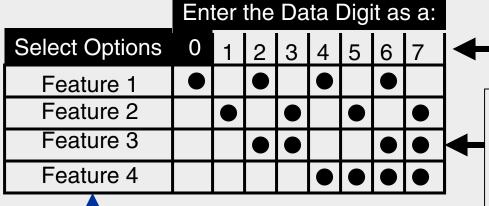
Programming From the Keypad

Understanding the Programming Charts

The Programming Reference Guide makes use of three types of charts.

If the chart looks like this, a combination of features is available to be programmed for that particular address.

Which is the default ???



Enter one of these numbers for appropriate data digit

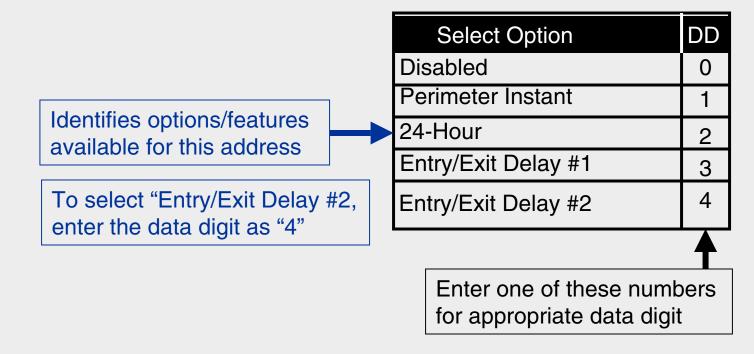
Dots represent which options / features included with each selection, eg., Features 2 & 4 would require an entry of "5".

Identifies options/features available for this address



Programming From the Keypad

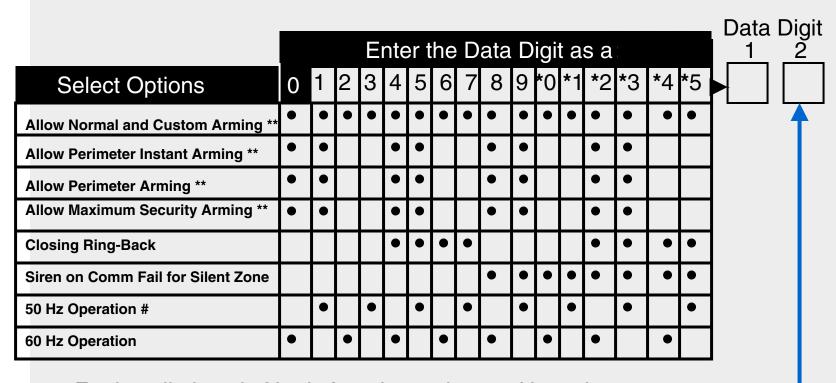
If the chart looks like this, only a single feature is available to be programmed for that particular address.



DS7400Xi Panel Wiring & Programming



General Control Programming: Prog Address 0000



For installations in North America, select 60 Hz option.

*0 - *5 are Hex values. They will display as A-F at keypads.

Next Slide

DS7400Xi Panel Wiring & Programming



To Previous Slide, Digit 2

Enter DD as a:

General Control Programming: Address 0000

				Ju	Ju		l
Select Options	0	1	2	3	4	5	
Restore zone when Sounders Silence	•			•			
Restore zone when Zone Restores		•			•		
Restore zone when System is Disarmed			•			•	L
Allow Swinger Shunts				•	•	•	



Programming A Zone

Programming a zone is a 3 step process.

Step 1 is programming zone functions (what a zone will do in alarm).

Step 2 is assigning a zone function to the zone.

Step 3 is to assign the zone to a partition.

DS7400Xi Panel Wiring & Programming



Data Digit

Programming Address 0001-0015

*2 - *5 are Hex values. They will display as C-F at keypads.

		Enter the Data Digit as a:										
Select Options	0	1	2	3	4	5	6	7	*2	*3	*4	*5
Invisible Alarm	•				•				•			
Silent Alarm		•				•				•		
Steady Alarm Output			•				•				•	
Pulsing Alarm Output				•				•				•
Alarm on Short	•	•	•	•	•	•	•	•				
Alarm on Open	•	•	•	•					•	•	•	•
Trouble on Open **					•	•	•	•				
Trouble on Short									•	•	•	•

** Only when disarmed.

When armed, this becomes Alarm on Open or Short for 24-hr Zones. Note: Multiplex contacts (DS7450 & DS7452) should not be programmed for Trouble on Open.

Next Slide

DS7400Xi Panel Wiring & Programming





Note:

If Digit 2 = 9, use this chart to select Digit 1

Select Option DD

Single Partition-No ForceArm 0

Single Partition-Can ForceArm 1

All Partitions-No ForceArm 2

All Partitions-Can ForceArm 3

Otherwise, Digit 2 transfers to chart on Previous Slide.

Select Option	DD
Disabled	0
Perimeter Instant	1
24-Hour	2
Entry/Exit Delay #1	3
Entry/Exit Delay #2	4
Interior Entry/Exit Follower	5
Interior Home/Away	6
Interior Instant	7
Day Monitor	8
Keyswitch (See note)	9
Fire Zone with Verification	*0
Fire Zone without Verif.	*1
Waterflow	*2
Supervisory	*3
Entry/Exit Delay Cancel 1	*4
Entry/Exit Delay Cancel 2	*5



Programming A Zone

			Default Values				
Value (Fill in)	Zone Function	Address	(Will be forced to different values when in Commercial Fire Mode. See Sec 11.15.3)				
	1	0001	2 = Steady Alarm Output, alarm on short & open 3 = Entry/Exit Delay 1				
	2	0002	2 = Steady Alarm Output, alarm on short & open 4 = Entry/Exit Delay 2				
	3	0003	2 = Steady Alarm Output, alarm on short & open 1 = Perimeter Instant				
	4	0004	2 = Steady Alarm Output, alarm on short & open 5 = Interior Entry/Exit Follower				
	5	0005	2 = Steady Alarm Output, alarm on short & open 6 = Interior Home/Away				
	6	0006	2 = Steady Alarm Output, alarm on short & open 7 = Interior Instant				
	7	0007	2 = Steady Alarm Output, alarm on short & open 2 = 24-Hour				
© Padianias Inc. ross	8	0008	2 = Pulsing Alarm Output, alarm on short; trouble on open. *0 = Fire Zone with Verification				



Programming A Zone

			Default Values
Value (Fill in)	Zone Function	Address	(Will be forced to different values when in Commercial Fire Mode. See Sec 11.15.3)
	9	0009	0 = 0 = Disabled
	10	0010	0 = 0 = Disabled
	11	0011	0 = 0 = Disabled
	12	0012	0 = 0 = Disabled
	13	0013	0 = 0 = Disabled
	14	0014	0 = Disabled 0 = 0 = Disabled
	15	0015	0 =
			0 = Disabled

DS7400Xi Panel Wiring & Programming



Program Address 0001-0015 Zone Functions

Exercise:

Program a custom zone function as follows:

Zone Function 9

Steady Alarm

Alarm on Short

Alarm on Open

Entry/Exit Delay Cancel 1

Program Address:

0 0 0 9

DD1 DD2:

2 *4

DS7400Xi Panel Wiring & Programming

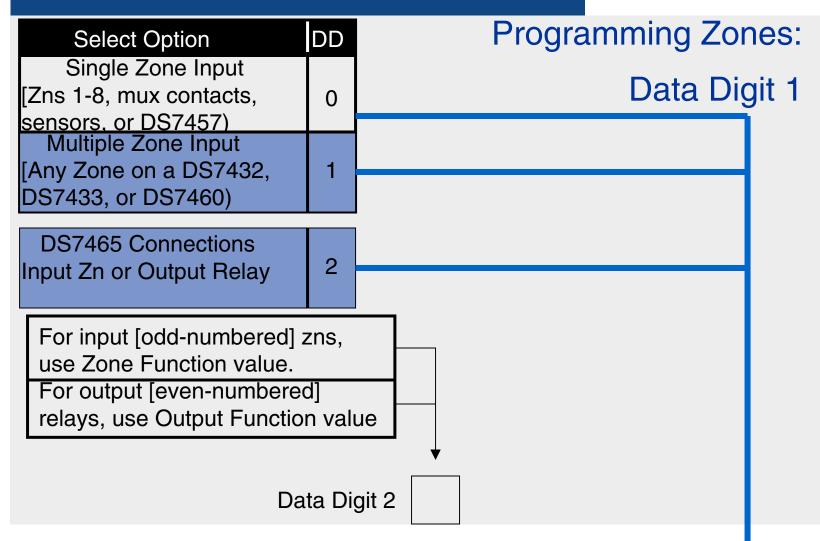


Programming Zones

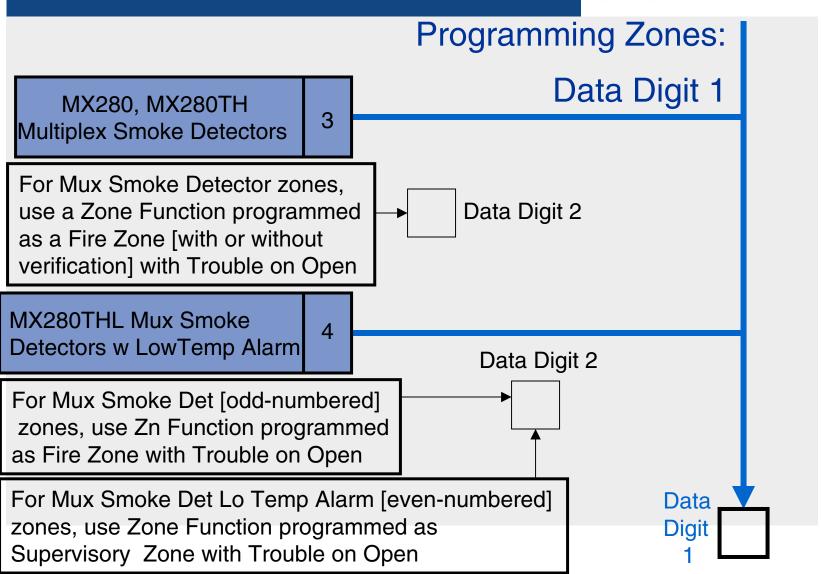
First choose the Type of Hardware (Data Digit 1) Step One

Then assign a Zone Function (Data Digit 2) Step Two











Zone Funct. #		ZoneFunction Descriptions [Default values shown will differ if changed in Zone Function Programming.]	Zone Function Value
1	0001	Steady Alarm Output, alarm on short & open Entry/Exit Delay 1	1
2	0002	Steady Alarm Output, alarm on short & open Entry/Exit Delay 2	2
3	0003	Steady Alarm Output, alarm on short & open Perimeter Instant	3
4	0004	Steady Alarm Output, alarm on short & open Interior entry/exit follower	4
5	0005	Steady Alarm Output, alarm on short & open Interior home/away	5
6	0006	Steady Alarm Output, alarm on short & open Interior Instant	6
7	0007	Steady Alarm Output, alarm on short & open 24-Hour	7
8	8000	Pulsing Alarm Output, alarm on short, trbl on open Fire zone with verification	8





Zone Funct. #		ZoneFunction Descriptions [Default values shown will differ if changed in Zone Function Programming.]	Zone Function Value
9	0009	Description	9
10	0010	Description	*0
11	0011	Description	*1
12	0012	Description	*2
13	0013	Description	*3
14	0014	Description	*4
15	0015	Description	*5



Programmed Zone Defaults

Zone Number	Address	Default
1	0018	01
2	0019	02
3	0020	03
4	0021	04
5	0022	05
6	0023	06
7	0024	07
8	0025	80
9 - 128	0026-0145	00

DS7400Xi Panel Wiring & Programming



Step 3:Programming Zone Partition Assignments Addresses 1248-1311

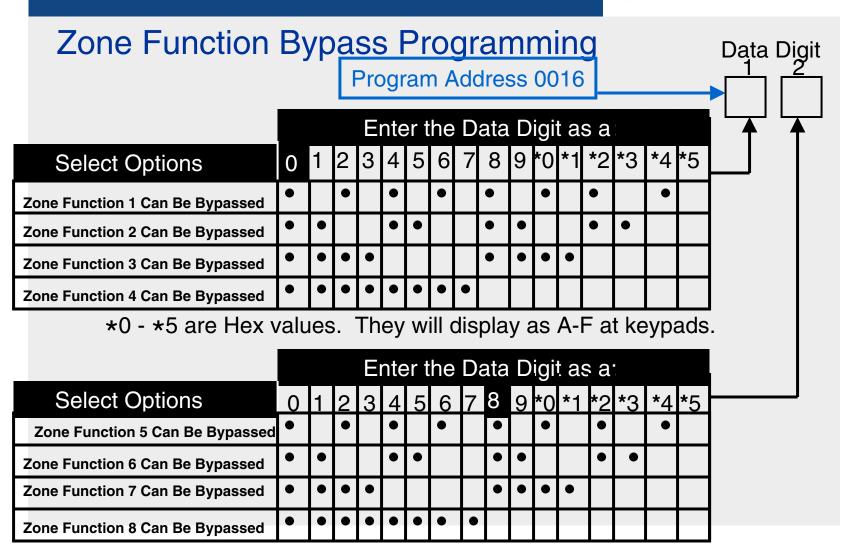
Select Option	DD
Belongs to Partition 1	0
Belongs to Partition 2	1
Belongs to Partition 3	2
Belongs to Partition 4	3
Belongs to Partition 5	4
Belongs to Partition 6	5
Belongs to Partition 7	6
Belongs to Partition 8	7

Partition Assignment	Address
For Zones 1 and 2	1248
For Zones 3 and 4	1249
For Zones 5 and 6	1250
For Zones 7 and 8	1251
For Zones 9 thru 128	1252-1311

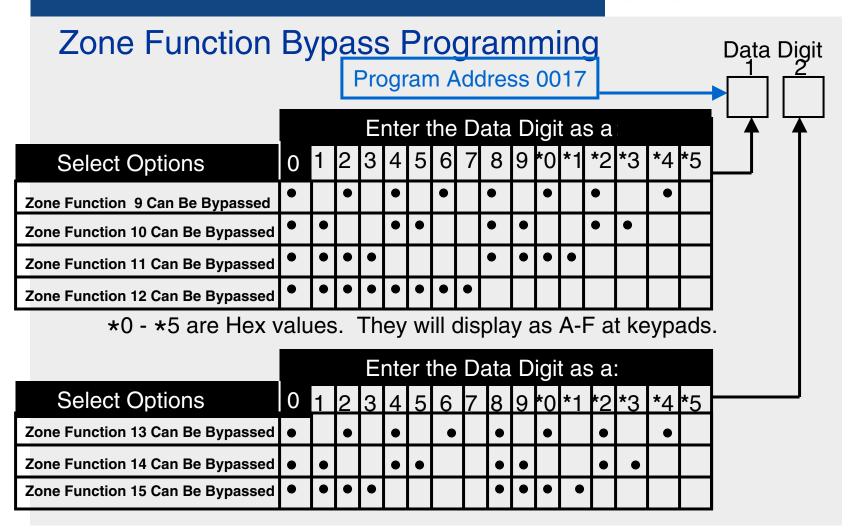
Digit	Data I	
2	1	
		O <u>dd-numbered zones</u>
	ones	Even-numbered
	<u>cones</u>	Even-numbered

Select Option	DD
Belongs to Partition 1	0
Belongs to Partition 2	1
Belongs to Partition 3	2
Belongs to Partition 4	3
Belongs to Partition 5	4
Belongs to Partition 6	5
Belongs to Partition 7	6
Belongs to Partition 8	7









DS7400Xi Panel Wiring & Programming



Output Programming: Addresses 0146-0148 Data Digit

Select Option	DD	<u> </u>
Latch on ANY Zone Alarm [incl Invisible]	0	H
ON During Entry Pre-Alert	1	H
ON for 10 sec. After pressing [System Reset]	2	H
ON When System is Armed	3	H
Ground Start	4	H
System Status (Ready to Arm)	5	H .
Zone Alarm	6	H.
Zone Alarm delayed by 20 seconds	7	HI
Keypad Sounder Output	8	HI
Access Output (10-second pulse)	9	HI
Panic Duress Output ***	*1	μI

Options DD

Disabled 0 1

Burglar Alarm 1 2

Burg and Fire Alarm 3

PO1 will be ON for 10-sec after Sys Reset pressed. PO2 will be OFF for 10-sec after Sys Reset pressed.

*** Section 6.4 of Reference Guide describes this function



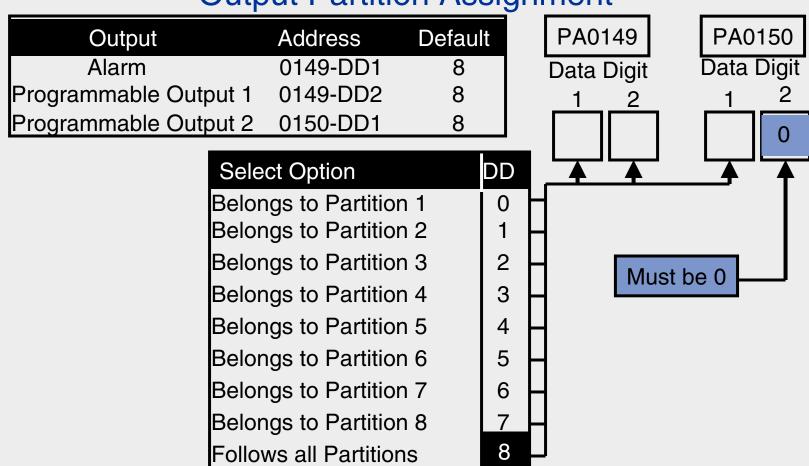
Output Programming: Addresses 0146-0148

Output	Address	Default
Alarm	0146	63
Programmable Output 1	0147	33
Programmable Output 2	0148	23

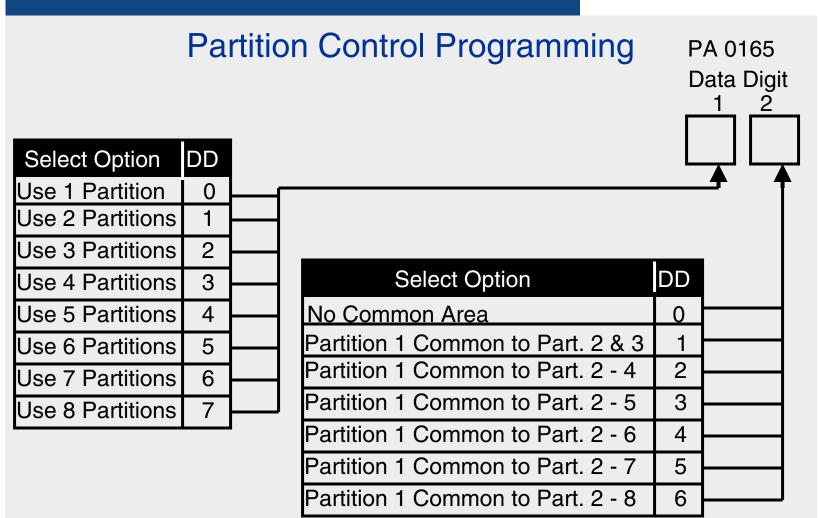
DS7400Xi Panel Wiring & Programming

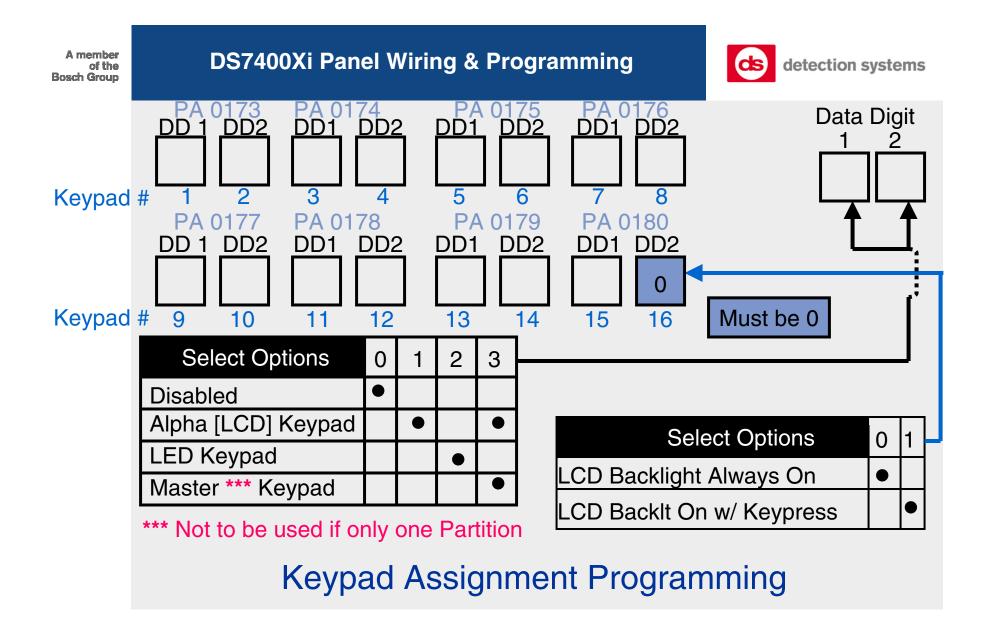


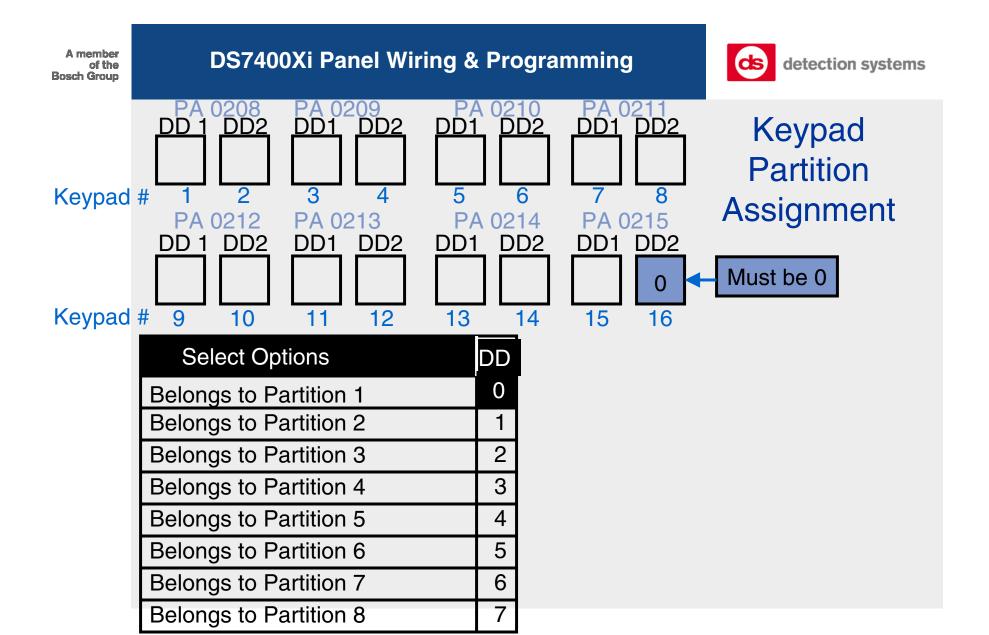
Output Partition Assignment





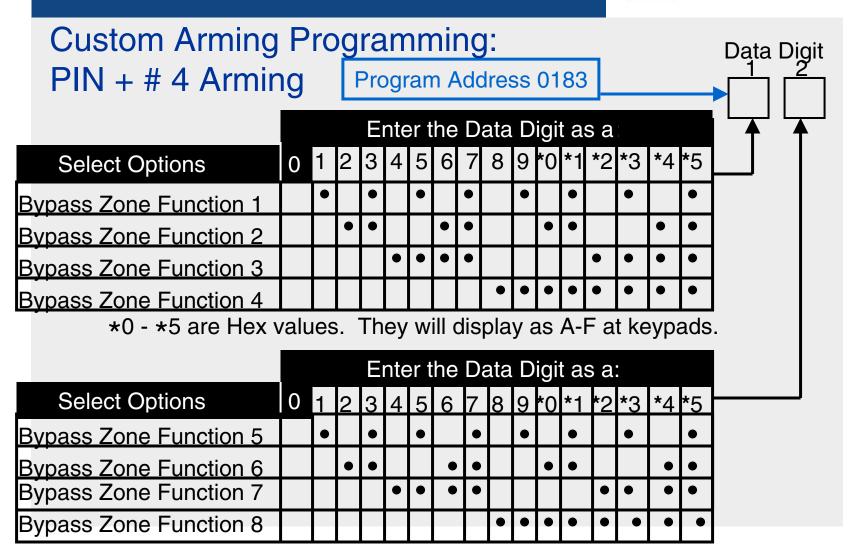




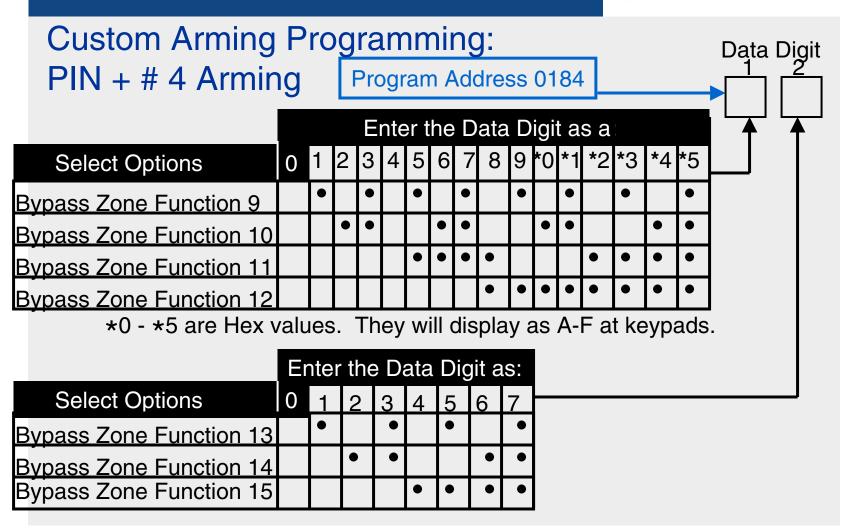


DS7400Xi Panel Wiring & Programming detection systems PA 0181 A-B-C Key Programming **Data Digit** Select Option DD Fire Key = Disabled0 Fire Key = DisabledFire Key = Steady Alarm Fire Kev = Pulsed Alarm **Select Option** DD **Select Option** DD Special Emergency Key = Disabled 0 Panic Key = Disabled 0 Special Emergency Key = Silent Alarm Panic Key = Silent Alarm Special Emergency Key = Steady Alarm 2 Panic Key = Steady Alarm 3 Special Emergency Key = Pulsed Alarm 3 Panic Key = Pulsed Alarm Must be 0 PA 0182 Data Digit 1

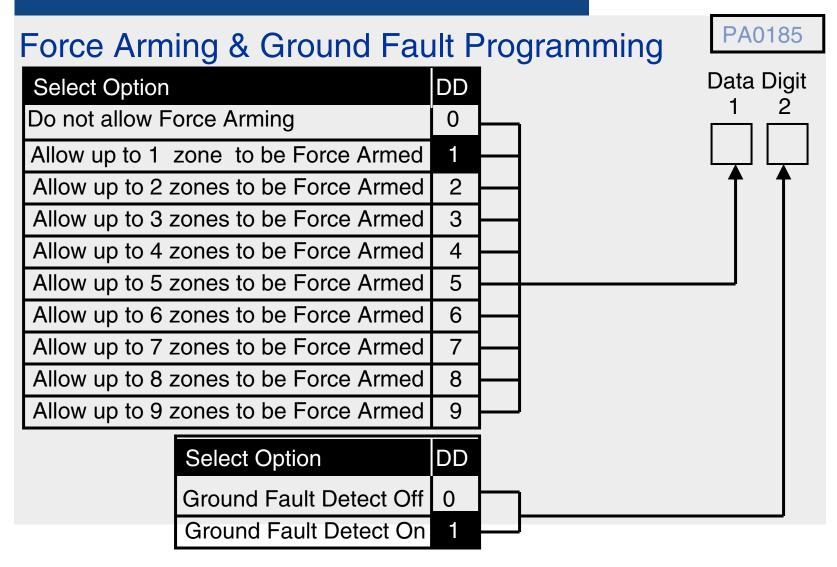












DS7400Xi Panel Wiring & Programming



Commercial Fire Mode Programming PA 0186 **Data Digit** Enter the Data Digit as a: **Select Options** Commercial Fire Mode disabled Local Comm. Fire Mode enabled CentrStaComm.FireMode enabled 10-sec delay on waterflow zone • 20-sec delay on waterflow zone 30-sec delay on waterflow zone 40-sec delay on waterflow zone 50-sec delay on waterflow zone *0 - *2 are Hex values. They will display as A-C at keypads. Zones 1 - 4 may only have waterflow delays. **Next** Slide

DS7400Xi Panel Wiring & Programming

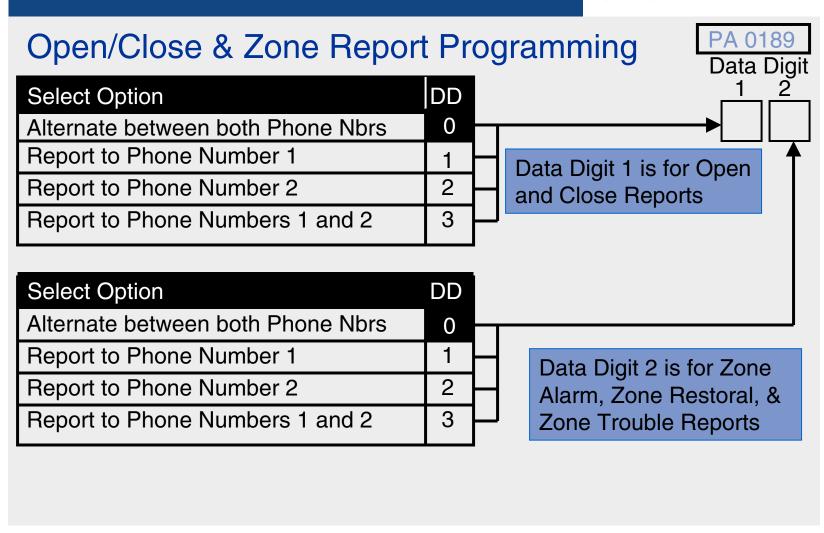


Commercial Fire Mode Programming PA 0186 DD2 Data Digit 1 on Previous Slide Enter Data Digit as: Select Options 1 2 0 3 5 Bell and Aux activate on Fire Bell and Aux activate on Burg Pulsing Fire Alarms = 1 sec on, 1 sec off Pulsing FA use California Standard Pulsing FA use Temporal Code 3



Open/Close Report Control	Pı	O	gı	a	m	m	nir	ng			PA 0187 Data Digit
Ente	r th	e [Da	ta	Di	git	as	a:			
Select Options	0	1	2	3	4	5	6	7	8	9	
Do not report opens or closes	•										↑
Report opens and closes in Partition 1		•	•	•	•	•	•	•	•		
Report opens and closes in Partition 2			•	•	•	•	•	•	•		
Report opens and closes in Partition 3				•	•	•	•	•	•		
Report opens and closes in Partition 4					•	•	•	•	•		
Report opens and closes in Partition 5						•	•	•	•		
Report opens and closes in Partition 6							•	•	•		
Report opens and closes in Partition 7								•	•		
Report opens and closes in Partition 8									•		
Report first to open and last to close **										•	
** If this option used, all partitions must s	sha	re	sa	me	e a	.CC	ou	int i	nun	nbe	er.
Do not send Trouble at close	e fc	or E	Зуј	oa	SS	ed	Zc	one	s	0	
Send Trouble at close for B	ypa	iss	ec	ΙZ	on	es				1	



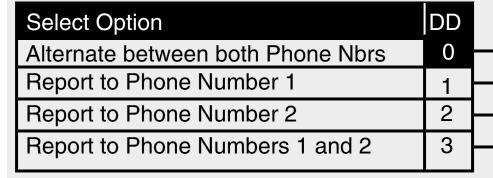


DS7400Xi Panel Wiring & Programming



Data Digit





Data Digit 1 does not include Open & Close or Zone Reports

Data Digit 2 must be 0.



Timer Programming

PA 0191-0196

Bell Cutoff Times are programmed in One-Minute intervals, except that an entry of "99" produces a 30-second bell cutoff.

Entry and Exit Delay Times are programmed in 5-second intervals, as follows:

01 = 5 sec.

03 = 15 sec.

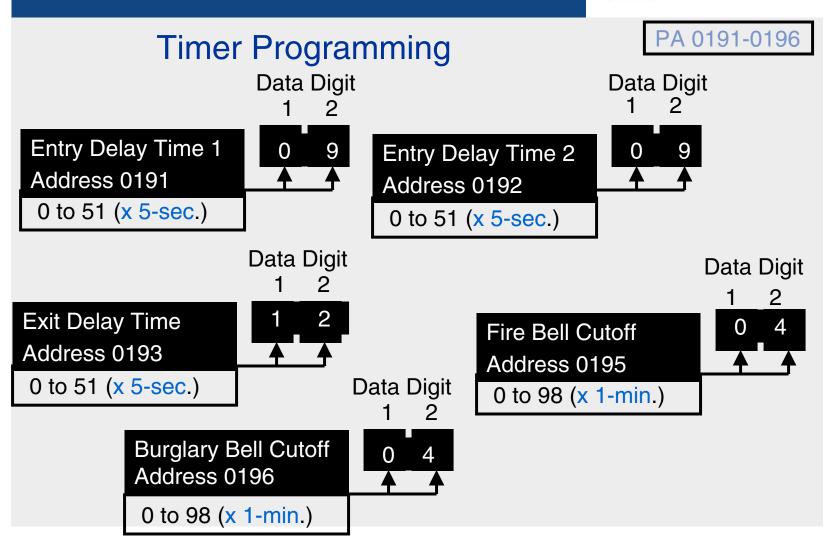
04 = 20 sec.

06 = 30 sec.

12 = 60 sec.

51 = 255 sec. [Maximum Programmable]





A member **Bosch Group**

DS7400Xi Panel Wiring & Programming



A/C Fail Report Delay Programming

The A/C Fail Delay Times are programmed as Hexadecimal values.

Example:

00 Send only with next report

1*4 30 Minute Delay

3*2 60 Minute Delay

78 120 Minute Delay

*5*5 Random Delay

(at least 15 but less than 120)

A/C Fail Report Delay Address 0197

00 through FF



PA 0197

Data Digit

We count 0-9

Hex counts 0-15

To us 30 means 3 tens and 0 ones or (30 units)

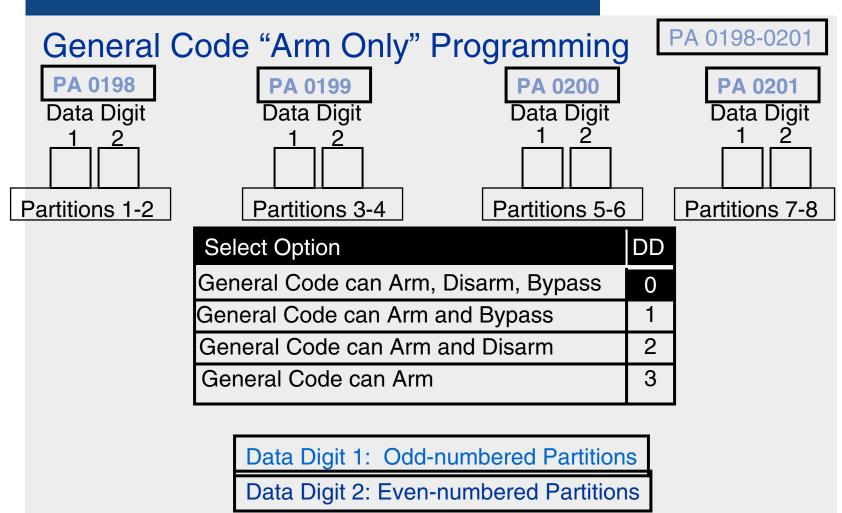
To Hex 30 means 3 sixteens and 0

equals 12

60

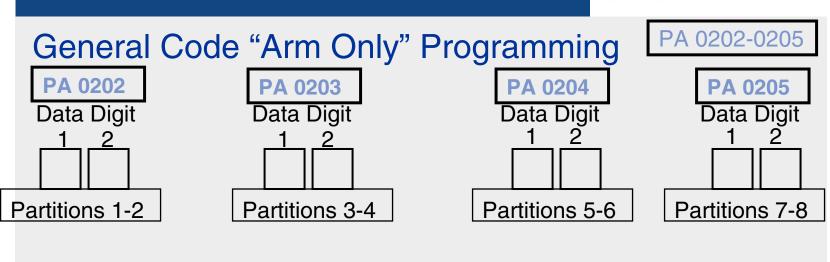
ones (48 units) 3*2 = 60 because 3x16 equals 48 and





DS7400Xi Panel Wiring & Programming



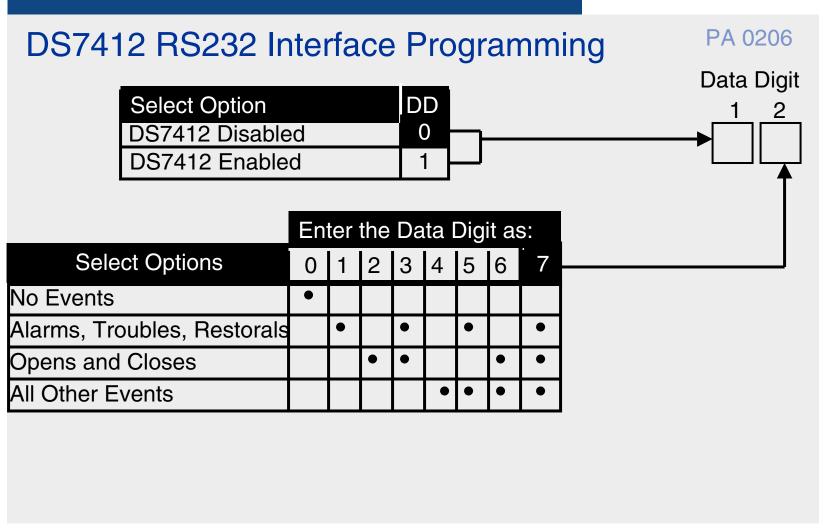


Select Option	DD
No Keypad Sounder During Exit Delay	0
Keypad Sounder During Exit Delay	4

Data Digit 1: Odd-numbered Partitions

Data Digit 2: Even-numbered Partitions

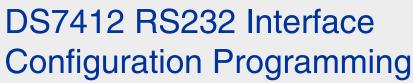




DS7400Xi Panel Wiring & Programming



Data Digit



5

 Select Option
 DD

 300 Baud
 0

 1200 Baud
 1

 2400 Baud
 2

 4800 Baud
 3

 9600 Baud
 4

4400 Baud

	En	ter t	he	Dat	a D	igit	as	:
Select Options	0	1	2	3	4	5	6	7
No Parity	•	•	•	•				
Odd Parity					•	•		
Even Parity							•	•
Software Flow Ctrl	•		•		•		•	
Hardware Flow Ctrl		•		•		•		•
1 Stop Bit	•	•			•	•	•	•
2 Stop Bits			•	•				
8 Data Bits	•	•	•	•	•	•	•	•



Account Code Programming

PA 0496-0526

Each partition can be programmed with a separate account number to each of two phone numbers [Phone #1 and Phone #2].

Each account number takes two addresses [4 Data Digits] -- first 2 digits the even-numbered address; last 2 digits the odd-numbered address.

Default for all Account Codes is 0







DS7400Xi Panel Wiring & Programming



Account Code Programming

PA 0496-0526

		Data Digits 1 2 3 4
Partition ²	Phone #1 Acct Code = PA 0496 Phone #2 Acct Code = PA 0498	
Partition 2	Phone #1 Acct Code = PA 0500 Phone #2 Acct Code = PA 0502	
Partition 3	Phone #1 Acct Code = PA 0504 Phone #2 Acct Code = PA 0506	
Partition 4	Phone #1 Acct Code = PA 0508 Phone #2 Acct Code = PA 0510	

DS7400Xi Panel Wiring & Programming



Account Code Programming

PA 0496-0526

	Data Digits 1 2 3 4
Partition 5 Phone #1 Acct Code = PA 0512 Phone #2 Acct Code = PA 0514	
Partition 6 Phone #1 Acct Code = PA 0516 Phone #2 Acct Code = PA 0518	
Partition 7 Phone #1 Acct Code = PA 0520 Phone #2 Acct Code = PA 0522	
Partition 8 Phone #1 Acct Code = PA 0524 Phone #2 Acct Code = PA 0526	



Phone Number General Control Programming PA 0528

These notes apply to the following 2 slides:

- A Only applicable when using the ARDIS option.
- P See Addresses 0494-0495: ARDIS routing.
- X Required on PBX systems.
- SP Option limited to Single-Partition systems.
- UA Required by UL when using ARDIS module.

DS7400Xi Panel Wiring & Programming



Phone Number General Control Programming PA 0528 Data Digit

			itei	un	еι	Ja	la	U	git	aS	a.	
Select Options	0	1	2	3	4	5	6	7	8	9	*0	*1
Enable remote progrmr call-back		•		•		•		•		•		•
Dial pulse on all phone numbers	•	•					•	•				
Dial tone on all phone numbers X					•	•					•	•
Dial tone, switch to pulse if requrd		•	•						•	•		
Try ARDIS network first A P							•	•	•	•	•	•

*0 - *2 are Hex values. They will display as A-C at keypads.

Next Slide

DS7400Xi Panel Wiring & Programming



Phone Number General Control Programming PA 0528 Data Digit Data Digit 1 on Previous Slide Enter the Data Digit as a: **Select Options** 0 8 **|9 *0|*1|** 2 3 5 6 *4 | *5 4 15-sec Dial delay - non-24-hr burglar alarms only SP 15-sec Dial delay - 24-hr burg & fire alarms only Send alarms via ARDIS or digital Send alarms via both ARDIS and digital A-UA Use110 baud comm - WDSRPI Use300 baud comm - WDSRP

DS7400Xi Panel Wiring & Programming



PA 0529-0530 Phone Number Format Programming Ph Nbr 1 Format = PA 0529 Data Digit Select Option DD Ph Nbr 2 Format = PA 0530Phone Number Disabled 3/1 No Extended Reporting 1 2 3/1E (Extended Reporting) 3 3/1 with Parity 3/1E with Parity 4 4/1 5 4/2 6 BFSK SIA 110 Baud 8 Contact ID 9 SIA 300 Baud *0 *5 Pager *0 - *5 are Hex values. They will display as A-F at keypads. **Next** Slide

DS7400Xi Panel Wiring & Programming



Phone Number Format Programming

PA 0529-0530

Data Digit

Data Digit 1 on Previous Slide

Enter Data Digit as:

Select Options

0 1 2 3 4 5

1900Hz Data/ 1400Hz Ack
1800Hz Data/ 2300Hz Ack

BFSK, SIA, Contact ID

10 Pulses per second (PPS)

20 Pulses per second (PPS)

40 Pulses per second (PPS)



Telephone Answering Machine Programming

PA 0531

Data Digit 1 pertains to accessing panel by phone when armed.

Data Digit 2 pertains to accessing panel by phone when disarmed.

Odd numbered ring counts override the answering machine.

Consider even numbers for a disarmed commercial installation.

Remember once again that *0 through *5 are Hexadecimal values.

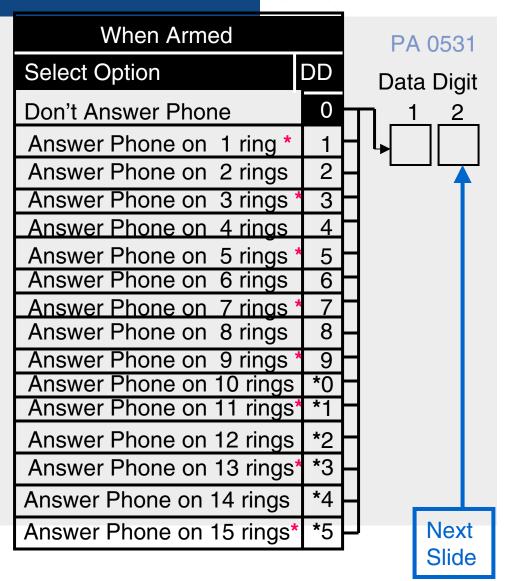
They will display as A through F at keypads.

DS7400Xi Panel Wiring & Programming



Telephone Answering Machine Programming

* Odd number rings overrides answering machine.

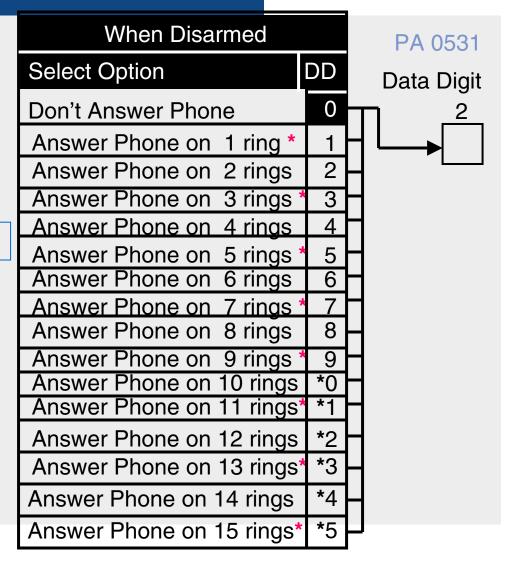


DS7400Xi Panel Wiring & Programming

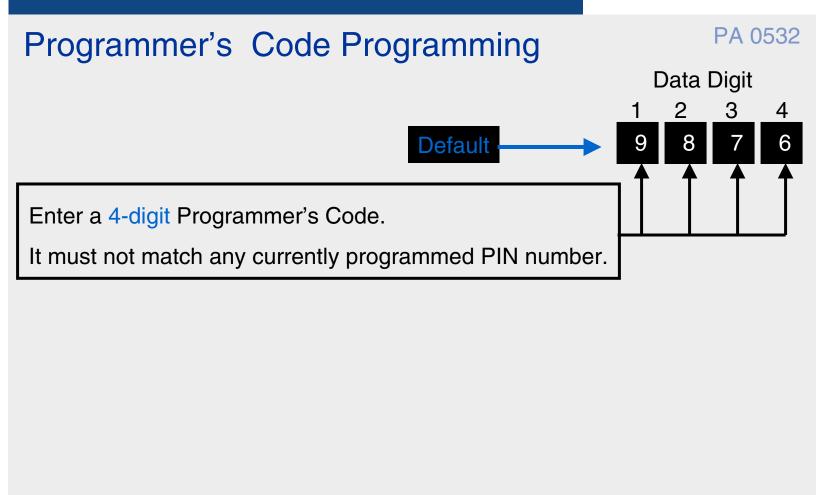


Telephone Answering Machine Programming

Data Digit 1 on Previous Slide

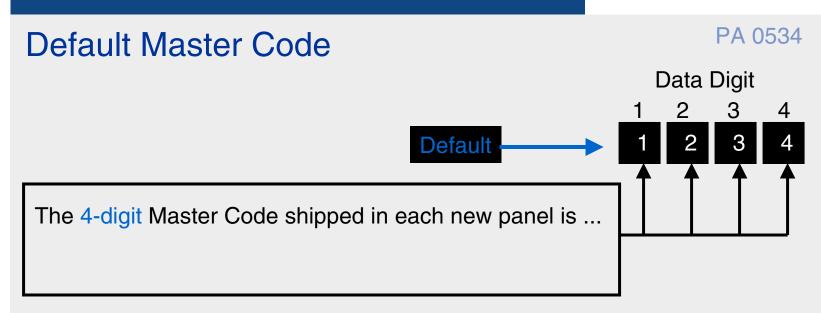






DS7400Xi Panel Wiring & Programming





If you have trouble memorizing it, use the Data Digits as a clue.



Octal Relay Module Output Programming

PA1456-1471

Firs	t DS7488 or DS7489	Sec	ond DS7488 or DS7489
Octal Relay #	Addresses	Octal Relay #	Addresses
1	1456	9	1464
2	1457	10	1465
3	1458	11	1466
4	1459	12	1467
5	1460	13	1468
6	1461	14	1469
7	1462	15	1470
8	1463	16	1471

First Data Digit defines the specific relay option. Second Data Digit determines whether relay will associate with Fire, Burglary, or neither.



PA1456-1471

Octal Relay Module Output Programming

	•						
Select Option	DD		Data Digit				
Latch ON after Zone Alarm *	0	Ь	_1_2				
ON during Entry Pre-Alert	1	$\vdash\vdash$	→ •	•			
ON for 10-sec after System Reset	2		<u> </u>				
ON when System is Armed	3	$\vdash \vdash$					
Ground Start	4	$\vdash \vdash$					
System Status (Ready to Arm)	5	$\vdash \vdash$					
Zone Alarm	6			Da	ta C	igit	
Zone Alarm delayed by 20 secs.	7		Follows	0	1	2	3
Keypad Sounder Output	8	\vdash	Disabled	•			
Access Output (10-sec pulse)	9		Burglar Alarm		•		•
Panic/Duress Output	*1	dash	Fire Alarm			•	•
Follow System Wide Events	*2						

See Next 2 Slides

* Includes invisible zones.

Follow Output Functions

*3

DS7400Xi Panel Wiring & Programming



Octal Relay Module Output Programming

PA1456-1471

Data Digit

Select Option	DD	
Disabled	0	*2
AC Power Fail	1	
Low Battery	2	
Communication Failure	3	
Any System Fault	4	
Keypad Supervision Fault	5	
Multiplex Bus Fault	6	
Aux Power Fault	7	
Fire Zone Trouble	8	
Supervisory	9	
Zone Trouble	*1	
Duress	*2	
Battery Test	*3	

*0 - *3 are Hex values. They will display as A-D at keypads.

= Follow System

.Wide Events



Select Option Disabled Follow Output Function 1	DD 0	H	Octal Relay Module Output Programming
Follow Output Function 2	2		PA1456-1471
Follow Output Function 3	3		Data Digit
Follow Output Function 4	4	Н	1 2
Follow Output Function 5	5	\vdash	*3 = Follow Output *3
Follow Output Function 6	6		Functions
Follow Output Function 7	7	\vdash	
Follow Output Function 8	8		
Follow Output Function 9	9		
Follow Output Function 10	*0		*0 - *5 are Hex values.
Follow Output Function 11	*1		They will display as A-F
Follow Output Function 12	*2		at keypads.
Follow Output Function 13	*3		
Follow Output Function 14	*4		
Follow Output Function 15	*5		



Output Function Programming

PA 1472-1516

Each function could use up to 3 programming addresses.

Eg.: Output Function 1 is programmed at PA 1472 - 1473 - 1474.

Output Function #	Program Address 1	Program Address 2	Program Address 3
1	1472	1473	1474
2	1475	1476	1477
3	1478	1479	1480
4	1481	1482	1483
5	1484	1485	1486
6	1487	1488	1489
7	1490	1491	1492
8	1493	1494	1495
9	1496	1497	1498
10	1499	1500	1501
11	1502	1503	1504
12	1505	1506	1507
13	1508	1509	1510
14	1511	1512	1513
15	1514	1515	1516

DS7400Xi Panel Wiring & Programming



Output Function Programming

PA 1472-1516

Program Address 1: Data Digit 1

Option 0 programs Output [latching] to follow Zone Alarm.

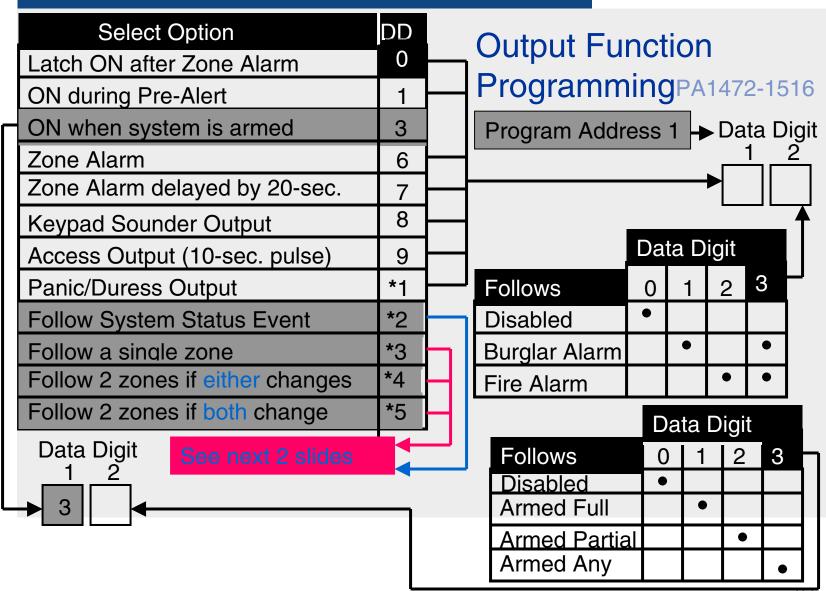
Options 1 thru *1 program Output to follow system-wide status

events.

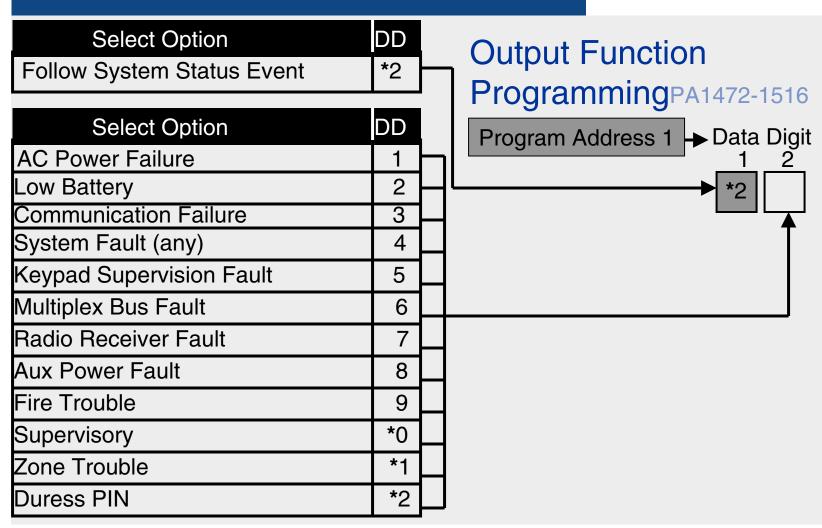
Options *3 thru *5 program Output to follow a single zone, or two

zones in an Input/Output Cross Matrix.



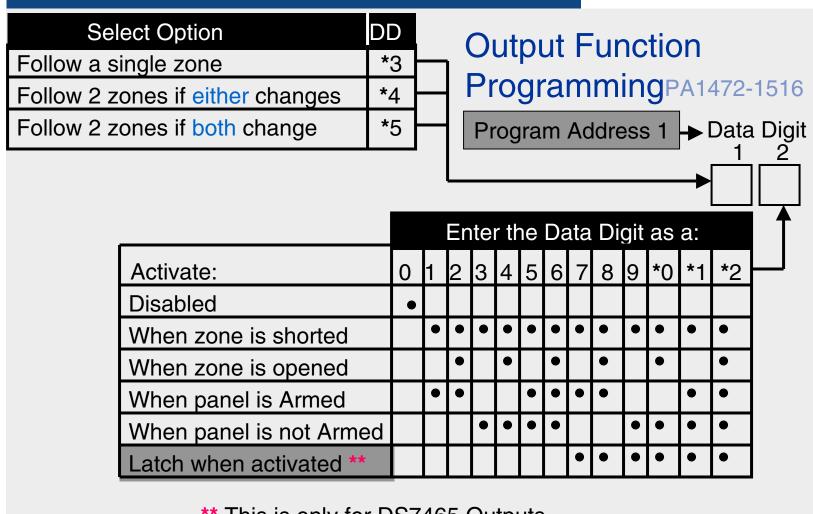






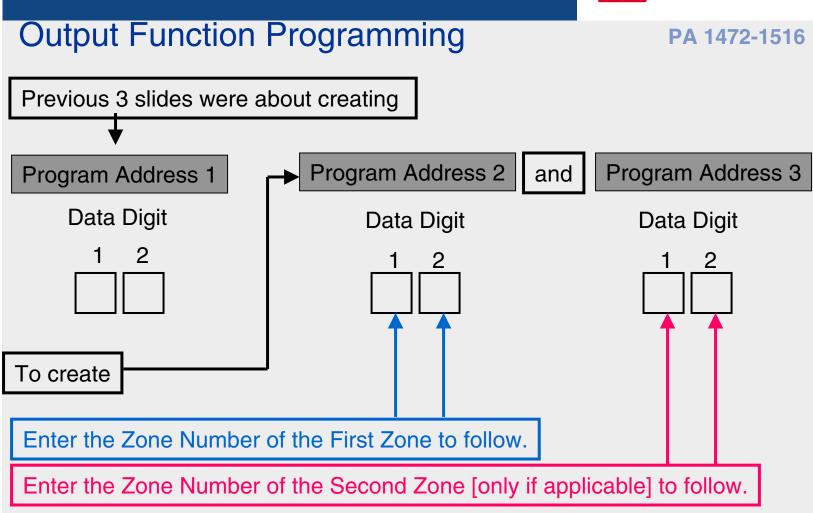
DS7400Xi Panel Wiring & Programming





** This is only for DS7465 Outputs.
DS7488 Outputs will not latch when activated





DS7400Xi Panel Wiring & Programming



A complete list of Programming Addresses in numerical order appears on

Pages 87 thru 90 of the D7400Xi Reference Guide.

Any questions on D7400Xi programming?

Thanks for your attention, and Happy Programming !!!