

EVO 48 & 192 – Quick Programming Guide (v2.20)

SECTION A: System information

* Zone configuration

Model	On board zone	Expander
EVO 48/ EVO192	8 zones	<p>Hardwire ZX4/APR3-ZX4 Four zone hardwire ZX8/APR-ZX8 Eight zone hardwire DM50/DGP2-50 Addressable PIR (Dual element) DM60/DGP2-60 Addressable PIR (Quad element) DM70/DGP2-70 Addressable Pet immunity PIR</p> <p>Wireless RTX3 Magellan 2 way wireless transceiver DCT10 Door transmitter PMD1P Pet immunity PIR (dual element) PMD75 Pet immunity PIR (Dual-Optic) PMD85 OUTDOOR Pet immunity PIR</p> <p><i>Note: Any combination either hardwire or/and wireless up to 48 zones for EVO48 and 192 zones for EVO192.</i></p>

* System modules

EVO 48/192	On board 8 zones (16 zones by zone doubling)
Hardwire zone ZX4 or APR3-ZX4 ZX8 or APR-ZX8	4 zones 8 zones
Addressable zone DM50/DGP2-50 Addressable PIR (Dual element) DM60/DGP2-60 Addressable PIR (Quad element) DM70/DGP2-70 Addressable Pet immunity PIR (Dual – optic)	1 zone 1 zone 1zone
Wireless zone RTX3 Magellan 2 way wireless transceiver DCT10 Door transmitter PMD1P Pet immunity PIR (dual element) PMD75 Pet immunity PIR (Dual-Optic) PMD85 OUTDOOR Pet immunity PIR	Up to 32 zones 2 zones 1 zone 1 zone 1 zone
Keypad K641 LCD (supply with panel) K641R LCD (with integrated card reader) Grafica K07 TM40/TM50 Touch Screen keypad	
Accessories VDMP3 Plug-In Voice Dialer IP100 Internet Module PCS200 GSM module APR3-PRT1 Printer module PGM4 or APR3-PGM4 Four PGM expansion module REM1 REM2 REM3	

*** Bus isolator/booster**

APR3-HUB2 Hub and bus isolator module PS27 Power supply module	One module has 2 buses Requires 2 DGP2-PS27 for one APR3-HUB2 (each bus one power supply)
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*** Card access**

ACM12 or DGP-ACM12 Access control module R910 or DGP-R910 R915 or DGP-R915 R870 or CR-R870-A C702 or CR-R702-A C704 or CR-R704-B RAC1 RAC2	Main controller Indoor/outdoor proximity reader Indoor/outdoor proximity reader & keypad Indoor proximity reader Clam shell proximity card Blue proximity key tag Remote control with integrated access card 2-way remote control with integrated access card
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***Listen-in module**

LSN4 Listen-In Module SUB1 Listen-in substation (4 units per LSN4)	Main board Substation (for intercom, anauciator)
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*** System features**

Feature	EVO48	EVO192
Zones	48	192
Partitions	4	8
Users	96	999
On-board PGMs	2 (with 2 optional PGM output and 1 optional relay)	5 (4 PGM outputs and 1 relay)
Modules	127	254

*** Common features**

<ul style="list-style-type: none"> • 1024 events buffered for EVO48 and 2048 events buffered for EVO192 • Access control up to 32 doors • 1.7A switching power supply • Supervise bell output • Telephone line monitoring • Hourly test transmission • Arm/disarm and control PGM via VDMP3 (Voice dialer). • Voice reporting up to 8 numbers via VDMP3 • Built in real time clock backup battery • Push button software reset (reset to default) • Compatible with NWare
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Specifications

Maximum Aux power – 700mA [EVO641 keypad is 110 mA per unit, APR3-ZX4 is 30 mA, APR-ZX8 is 30mA, addressable PIR is 30 mA]

Wire gauge refers to PAGE 64 of Original Programming Guide

SECTION B: Programming

To enter Programming Mode:

1. **Press and hold the [0] key**
2. **Enter [000000]** (*Prg LED flashing for LED keypad and SECTION wording for LCD keypad*), **you are in the programming mode**
3. **Enter 4 digits SECTION number** (*Prg LED light on*)
4. **Enter required DATA** (*Either enter 2 digits, 3 digits, 4 digits, 8 digits (for S/N) or ON / OFF relevant key*)
Press [ENTER] to confirm or [CLEAR] to ignore

[0] to [9] = key 0 to 9 respectively

[STAY] = A [FORCE] = B [ARM] = C [DISARM] = D [BYP] = E [MEM] = F

Remember: After keyed in a required DATA, always press ENTER and CLEAR, in order to let the ENTER key flashing before proceed with entering the next 4 digits SECTION number.

Example: The main board is 8 zones, one keypad zone, one 8-zone expander (ZX8), 2 pcs of PIR, one 4-zone expander & 32-zone wireless transmitter

Note: All zones can be assigned to any desired zone number.

MUST do step 1, 2 & 3, or else zone is DISABLE

Step 1 – Zone Numbering (Zone 1 to Zone 96)

- To program zone 1 to zone 96

Press & hold [0], then enter [000000], you are in the programming mode

Main board – 8 on board zone:

Press section [0001], enter [8 digit S/N, then 3 digit input], 8 digits is the **main board S/N**, 3 digit input is 001.
Press section [0002], enter [8 digit S/N, then 3 digit input], 8 digits is the **main board S/N**, 3 digit input is 002.
Press section [0003], enter [8 digit S/N, then 3 digit input], 8 digits is the **main board S/N**, 3 digit input is 003.
Press section [0004], enter [8 digit S/N, then 3 digit input], 8 digits is the **main board S/N**, 3 digit input is 004.
Press section [0005], enter [8 digit S/N, then 3 digit input], 8 digits is the **main board S/N**, 3 digit input is 005.
Press section [0006], enter [8 digit S/N, then 3 digit input], 8 digits is the **main board S/N**, 3 digit input is 006.
Press section [0007], enter [8 digit S/N, then 3 digit input], 8 digits is the **main board S/N**, 3 digit input is 007.
Press section [0008], enter [8 digit S/N, then 3 digit input], 8 digits is the **main board S/N**, 3 digit input is 008.

Keypad:

Press section [0009], enter [8 digit S/N, then 3 digit input], 8 digits is the **keypad S/N**.

8 zones Expander board:

Press section [0010], enter [8 digit S/N, then 3 digit input], 8 digits is the **expander board S/N**, 3 digit input is 001.
Press section [0011], enter [8 digit S/N, then 3 digit input], 8 digits is the **expander board S/N**, 3 digit input is 002.
Press section [0012], enter [8 digit S/N, then 3 digit input], 8 digits is the **expander board S/N**, 3 digit input is 003.
Press section [0013], enter [8 digit S/N, then 3 digit input], 8 digits is the **expander board S/N**, 3 digit input is 004.
Press section [0014], enter [8 digit S/N, then 3 digit input], 8 digits is the **expander board S/N**, 3 digit input is 005.

Press section [0015], enter [8 digit S/N, then 3 digit input], 8 digits is the expander board S/N, 3 digit input is 006.
Press section [0016], enter [8 digit S/N, then 3 digit input], 8 digits is the expander board S/N, 3 digit input is 007.
Press section [0017], enter [8 digit S/N, then 3 digit input], 8 digits is the expander board S/N, 3 digit input is 008.

PIR:

Press section [0018], enter [8 digit S/N], 8 digits is the **PIR S/N**.
Press section [0019], enter [8 digit S/N], 8 digits is the PIR S/N.

4 zones Expander board:

Press section [0020], enter [8 digit S/N, then 3 digit input], 8 digits is the **expander board S/N**, 3 digit input is 001.
Press section [0021], enter [8 digit S/N, then 3 digit input], 8 digits is the expander board S/N, 3 digit input is 002.
Press section [0022], enter [8 digit S/N, then 3 digit input], 8 digits is the expander board S/N, 3 digit input is 003.
Press section [0023], enter [8 digit S/N, then 3 digit input], 8 digits is the expander board S/N, 3 digit input is 004.

32 zones Wireless Transceiver:

Press section [0024], enter [8 digit S/N, then 3 digit input], 8 digits is the **Transceiver S/N**, 3 digit input is 001.
Press section [0025], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 00.
Press section [0026], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 003.
Press section [0027], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 004.
Press section [0028], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 005.
Press section [0029], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 006.
Press section [0030], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 007.
Press section [0031], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 008.
Press section [0032], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 009.
Press section [0033], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 010.
Press section [0034], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 011.
Press section [0035], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 012.
Press section [0036], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 013.
Press section [0037], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 014.
Press section [0038], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 015.
Press section [0039], enter [8 digit S/N, then 3 digit input], 8 digits is the Transceiver S/N, 3 digit input is 016.
Up to section [0055], for input 032....

Note: Transmitter S/N program in Step 8 C

Step 2 – Zone Type, Partition & Options (Zone 1 to Zone 96)

Press & hold [0], then enter [000000], you are in the programming mode

Press section [0101], [4, 1, ENTER, CLEAR], means ZONE 1 Instant, Partition 1.
Press section [0102], [3, 1, ENTER, CLEAR], means ZONE 2 follow zone (PIR), Partition 1.
Press section [0103], [4, 1, ENTER, CLEAR], means ZONE 3 Instant, Partition 1.
Press section [0104], [4, 1, ENTER, CLEAR], means ZONE 4 Instant, Partition 1.
Press section [0105], [4, 1, ENTER, CLEAR], means ZONE 5 Instant, Partition 1.
Press section [0106], [4, 1, ENTER, CLEAR], means ZONE 6 Instant, Partition 1.
Press section [0107], [4, 1, ENTER, CLEAR], means ZONE 7 Instant, Partition 1.
Press section [0108], [4, 1, ENTER, CLEAR], means ZONE 8 Instant, Partition 1.
Press section [0109], [1, 1, ENTER, CLEAR], means ZONE 9 Delay, Partition 1. (Main door / keypad zone)
Press section [0110], [4, 1, ENTER, CLEAR], means ZONE 10 Instant, Partition 1.
Press section [0111], [4, 1, ENTER, CLEAR], means ZONE 11 Instant, Partition 1.
Press section [0112], [4, 1, ENTER, CLEAR], means ZONE 12 Instant, Partition 1.
Press section [0113], [4, 1, ENTER, CLEAR], means ZONE 13 Instant, Partition 1.
Press section [0114], [4, 1, ENTER, CLEAR], means ZONE 14 Instant, Partition 1.
Press section [0115], [4, 1, ENTER, CLEAR], means ZONE 15 Instant, Partition 1.
Press section [0116], [4, 1, ENTER, CLEAR], means ZONE 16 Instant, Partition 1.
Press section [0117], [4, 1, ENTER, CLEAR], means ZONE 17 Instant, Partition 1.
Press section [0118], [4, 1, ENTER, CLEAR], means ZONE 18 Instant, Partition 1.

Press section [0119], [4, 1, ENTER, CLEAR], means ZONE 19 Instant, Partition 1.
 Press section [0120], [4, 1, ENTER, CLEAR], means ZONE 20 Instant, Partition 1.
 Press section [0121], [4, 1, ENTER, CLEAR], means ZONE 21 Instant, Partition 1.
 Press section [0122], [4, 1, ENTER, CLEAR], means ZONE 22 Instant, Partition 1.
 Press section [0123], [4, 1, ENTER, CLEAR], means ZONE 23 Instant, Partition 1.
 And [0148] for zone 48, [0196] for zone 96, and so on

Key in section	Zone type	Partition	Zone options
0101 for zone 1	0 for zone disable	1 for partition 1	1 for auto zone shutdown [default: OFF]
0102 for zone 2	1 for entry delay 1	2 for partition 2	2 for Bypassable zone [default: ON]
0103 for zone 3	3 for follow	3 for partition 3	3 for stay zone [default: OFF]
up to	4 for Instant	4 for partition 4	4 for force zone [default: ON]
0196 for zone 96	6 for 24 hour [panic]	For EVO192	5 & 6 are OFF for audible zone [default]
	D for fire[24 hour]	5 for partition 5	5 ON & 6 OFF for silent zone
		6 for partition 6	7 for intellizone [default: OFF]
		7 for partition 7	
		8 for partition 8	

Note 1:

The 1st digit represents by: 1 for Delay zone, 3 for Follow zone, 4 for Instant zone, 6 for 24 hour alarm.
 Don't program keypad zones if not used.

Note 2:

If the zone wants to become a STAY zone, instead of [3, 1, ENTER, CLEAR], replace it with [3,1 and ON key 3, ENTER, CLEAR], means this zone will be bypassed when stay armed.

E.g.: Press section [0102], [3, 1, and ON key 3, ENTER, CLEAR], means ZONE 2 follow zone (PIR), Partition 1.

If the zone want to become a FORCE zone, instead of [1, 1, ENTER, CLEAR]. Replace it with [1, 1, and ON key 4, ENTER, CLEAR], means this zone will be allowed open during arming.

E.g.: Press section [0109], [1, 1, and ON key 4, ENTER, CLEAR], means ZONE 9 Delay, Partition 1. (Main door / keypad zone)

Note 3:

By default, all zones are Bypassable.

Program Step 1 & Step 2 for Zone 97 to Zone 192 (Only with EVO641 LCD keypad)

- To program zone 97 to zone 192

Press & hold [0], then enter [000000], you are in the programming mode

Press section [0400], and then follow by 3 digit zone number:

Press section [097] for **zone 97**, enter [8 digit S/N, then 3 digit input], 8 digits is the **expander board S/N**, 3 digits is the corresponding input number.

Then press [4,1, ACC], and press [CLEAR] 2 times, means **ZONE 97 Instant**, Partition 1.

Press section [098] for **zone 98**, enter [8 digit S/N, then 3 digit input], 8 digits is the **expander board S/N**, 3 digits is the corresponding input number.

Then press [1,1, ACC], and press [CLEAR] 2 times, means **ZONE 98 Delay**, Partition 1.

Press section [099] for **zone 99**, enter [8 digit S/N, then 3 digit input], 8 digits is the **expander board S/N**, 3 digits is the corresponding input number.

Then press [D,1, ACC], and press [CLEAR] 2 times, means **ZONE 98 Fire**, Partition 1.

And [100] for Zone 100, [192] for **Zone 192**, and so on.....

After programmed all the zones, press [CLEAR] 2 times to exit from programming mode.

Step 3 – Enable EOL (End Of Line resistor)

Press & hold [0], then enter [000000], you are in the programming mode

Press section [3033], [ON key 7], means used of EOL resistor on hardwire zones

Step 4 - Others essential basic features to be programmed

Press & hold [0], then enter [000000], you are in the programming mode

- Section 0961, enter [002], zone 1 on board for 60 ms for vibration sensor
- Section 0962, enter [002], zone 2 on board for 60 ms for vibration sensor
- Section 0963, enter [002], zone 3 on board for 60 ms for vibration sensor
- Section 0964, enter [002], zone 4 on board for 60 ms for vibration sensor
- Section 0965, enter [002], zone 5 on board for 60 ms for vibration sensor
- Section 0966, enter [002], zone 6 on board for 60 ms for vibration sensor
- Section 0967, enter [002], zone 7 on board for 60 ms for vibration sensor
- Section 0968, enter [002], zone 8 on board for 60 ms for vibration sensor
- Up to section 0976 for zone 16 (ATZ of input 08)

- Section 3108 for exit delay partition 1 (e.g.: enter [3108], then key in [030] for 30 seconds). **Default is 60 seconds**
- Section 3111 for entry delay partition 1 (e.g.: enter [3111], then key in [030] for 30 seconds). **Default is 60 seconds**
- Section 3113 for bell timer partiton 1 (e.g.: enter [3113], then key in [010] for 10 minutes). **Default is 4 minutes**

- Section 3123, key for keypad Panic option wanted. (e.g: ON 1,2,3,4,5,6 for audible panic [1]&[3], [4]&[6], [7]&[9])

- Section 3124, ON key 1, 2 for bell squawk upon Arming/Disarming using keypad (e.g.: ON 1, 2 for bell squawk during arming/disarming using keypad.

- Section 3125, ON key for option wanted. For one-touch functions. (e.g: ON 1 for regular arming, ON 2 for stay arming, ON 3 for instant arming & ON 4 for force arming) **Note:** Stay & force arming need to be programmed in Step 2 for each individual zone.

- Section 3051, key in 008. For 8 rings pick up.

- Section 0301, zone 1 label.
Section 0302, zone 2 label till zone 192.

*** Choose either Step 5A or 5B**

Step 5 A – To call Handphone / Phone (Tone Reporting)

Press & hold [0], then enter [000000], you are in the programming mode

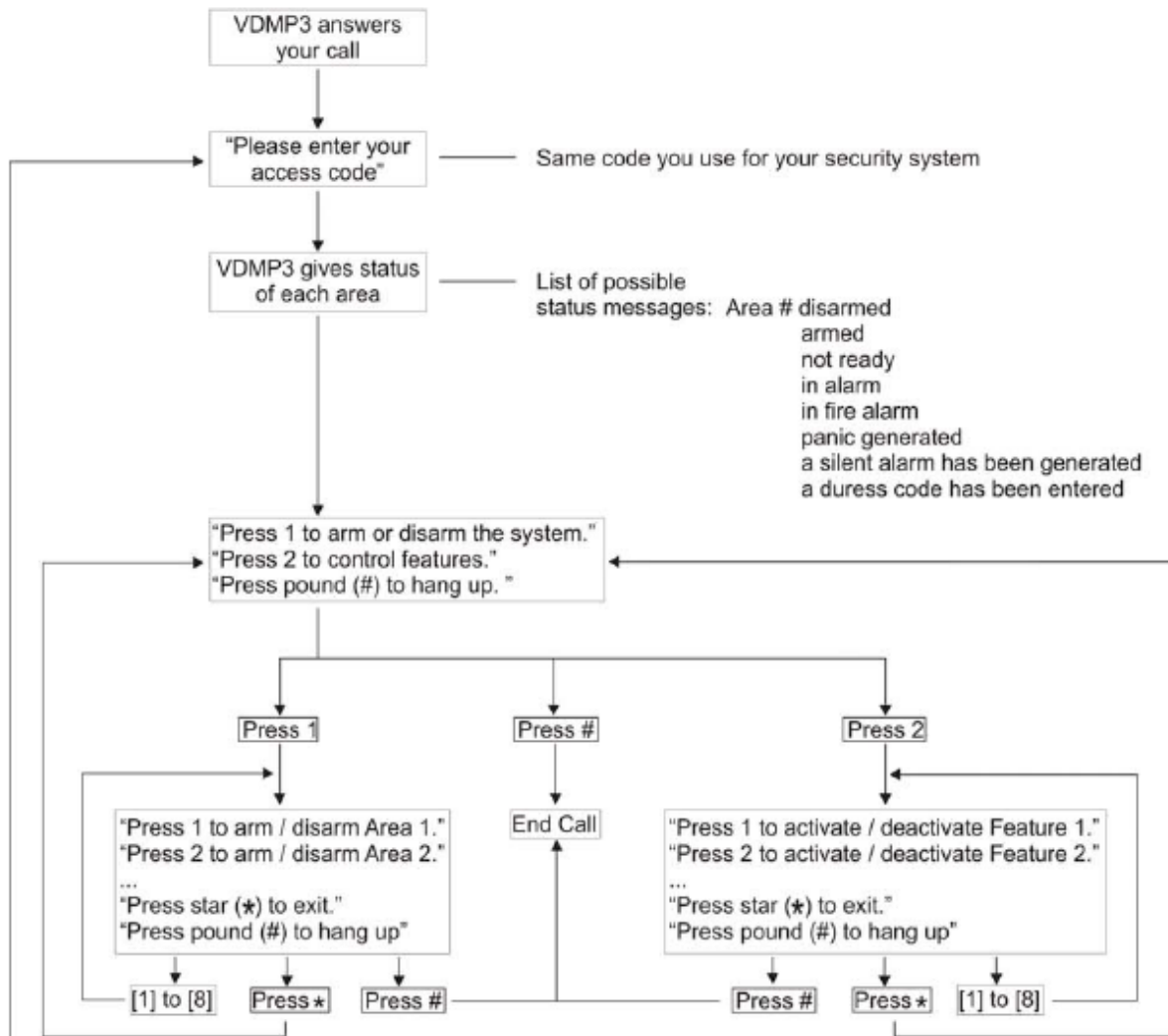
1. Section 3036, ON key [3], (key 4 5 & 6 remain ON). To enable Dialer.
2. Section 3036, ON key [1], for telephone line monitoring (*trouble on keypad if telephone being cut*)
3. Section 3070, enter [7777] for pager reporting format to dial tel. 1, 2, 3 & 4.
4. Section 3061, enter [8888]. For account Partition 1
5. Section 3062, enter [8888]. For account Partition 2
6. Section 3063, enter [8888]. For account Partition 3
7. Section 3064, enter [8888]. For account Partition 4
8. Section 3071, enter phone no. 1 follow by codes (*e.g.: 0121234567 BYP 88 BYP 88 BYP 88 BYP 88 BYP 88 BYP 88 BYP 888*).
9. Section 3072, enter phone no. 2 follow by codes (*e.g.: 0121234568 BYP 88 BYP 88 BYP 88 BYP 88 BYP 88 BYP 88 BYP 888*).
10. Section 3073, enter phone no. 3 follow by codes (*e.g.: 0121234569 BYP 88 BYP 88 BYP 88 BYP 88 BYP 88 BYP 88 BYP 888*).
11. Section 3074, enter phone no. 4 follow by codes (*e.g.: 0121234560 BYP 88 BYP 88 BYP 88 BYP 88 BYP 88 BYP 88 BYP 888*).
12. Section 3056, enter [002], number of dial attempt is 2 times
13. Section 0201, key in
[33][ENTER][33][ENTER][33]ENTER][33][ENTER][33][ENTER][33]ENTER][33][ENTER][33][ENTER]
For alarm reporting codes zone 1 to 8.
14. Section 0209,
[33][ENTER][33][ENTER][33]ENTER][33][ENTER][33][ENTER][33]ENTER][33][ENTER][33][ENTER]
key in For alarm reporting codes zone 9 to 18.
15. Section 0219,
[33][ENTER][33][ENTER][33]ENTER][33][ENTER][33][ENTER][33]ENTER][33][ENTER][33][ENTER]
For alarm reporting codes zone 19 to 26.

*** Using VDMP3 Voice Dialer (Voice reporting up to 8 handphone numbers)**

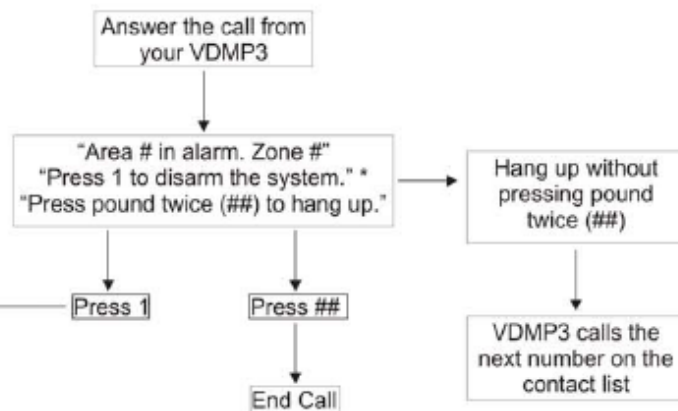
Press & hold [0], then enter [000000], you are in the programming mode

1. Section 3088, enter [008], for 8 seconds delay before sending the voice message.
2. Section 3133, ON key 1 & 2 if report to 1 & 2 phones, ON key 1,2 & 3 if report to 3 phones and ON key 1,2,3 & 4 if report to 4 phone numbers. For partition 1.
3. Section 3091, enter phone no. 1.
4. Section 3092, enter phone no. 2.
5. Section 3093, enter phone no. 3.
6. Section 3094, enter phone no. 4, and section 3098 for phone no. 8, and so on
7. Section 3051, enter [015], VDMP3 will answer the call after 15 rings
8. Section 3056, enter [002], number of dial attempt is 2 times

Calling the VDMP3



Receiving a Call From the VDMP3



* If multiple areas are in alarm, the VDMP3 hangs up and calls back to report other alarms.

RECORDING VOICE MESSAGE PROCEDURE

Maximum of 14seconds to identify Site ID (Name and address of the site)

VDMP3 version should be version 1.10 and mounted on an EVO series V2.10 and above.

For MG/SP, recommend using the EVO as programmer for the Site ID.

Firmware Upgrade VDMP3 Version 1.00 to Version 1.10 Procedure;

- 1) Install Winload 4.70 which includes the In-Field Firmware programming software V2.30
- 2) Once Winload 4.70 is installed, open it and open the In-Field Programming Software
- 3) In the In-Field, click on “get from Paradox” and select the EVO 48, EVO 192 and VDMP3 firmware and click “download”.
- 4) Also download VDMP3 Language.BIN file and save it on computer as it will be required after upgrading the VDMP3 firmware.
- 5) Upgrade the EVO48 / EVO192 to the latest firmware version 2.10 using the In-field programmer.
- 6) After completing the EVO panel upgrade, you will see the VDMP3 in the tree view of the In-Field firmware programming software.
Select the VDMP3 from the tree view in the In-Field and upgrade the VDMP3 to V1.10 by clicking on “Start Transfer”
- 7) Once the VDMP3 is upgraded, use the browse button and select the Language.BIN file saved on your computer and then click on “Start Transfer” to initiate the language file update in the VDMP3.
- 8) After completing the VDMP3 upgrade, click on Voice ID and start your recording and save on your computer in wav format.
- 9) Once record your Site ID, use the browse button and select your recording Voice ID file saved on your computer.

Step 5 B – Link To Centre Monitoring Station (CMS)

Press & hold [0], then enter [000000], you are in the programming mode

Section	Contact I.D
3070	[5555], means Contact ID format
3036	ON key [3], (key 4, 5 & 6 remain ON)
3061	Enter 4 digit account for Partition 1 (Note: account with digit [0 = STAY] key)
3062	Enter 4 digit account for Partition 2 (normally same as account Partition 1)
3071	Enter phone no. 1 (<i>e.g.: 12345678 [ENTER][CLEAR]</i>)
3072	Enter phone no. 2 (<i>e.g.: 12345679 [ENTER][CLEAR]</i>)
3080	ON key [6], enable backup on telephone number 2
3081	ON key [6], enable backup on telephone number 2
3127	ON key [6], enable backup on telephone number 2
3128	ON key [6], enable backup on telephone number 2
3129	ON key [6], enable backup on telephone number 2
3040	Enter [001] for daily auto test
3041	Enter [HH:MM] for test time (in 24 hour format)
4031	[CLEAR]

* Special telephone number keys for EVO641 and DGP2-641 LCD keypad

Function	LCD	Function	LCD
*	[STAY]	Clear	[CLEAR]
#	[FORCE]	Delete	[TRBL]
Switch to Tone Dialing (T)	[ARM]	Delete from cursor to the end	[ACC]
Wait for second dial tone (W)	[DISARM]	Insert space	[MEM]
4-second pause (P)	[BYP]	Dial 9 for outside line	9+[STAY]

Example: For PABX line: [9] [BYP] [Phone number]

Step 6 – PGM (Programmable output 1 to 5)

Press & hold [0], then enter [000000], you are in the programming mode

Option 1	Section [0910], enter [010] Section [0911], enter [000] Section [0912], enter [001] Section [0913], enter [255] Section [0914], enter [014] Section [0915], enter [000] Section [0916], enter [001] Section [0917], enter [255]	Arming in regular mode for PGM 1 [Light ON when system arm and OFF system disarm]
Option 2	Section [0920], enter [024] Section [0921], enter [255] Section [0922], enter [001] Section [0923], enter [096] Section [0924], enter [016] Section [0925], enter [255] Section [0926], enter [000] Section [0927], enter [000]	Strobe for PGM 2 [Strobe stop once key in user codes]
Option 3	Section [0910], enter [048] Section [0911], enter [000] Section [0912], enter [001] Section [0913], enter [001] Section [0918], enter [005]	Auto Gate for PGM 1 [Press remote control to activate PGM for 5 seconds] Program a button to Utility Key 1 (B)
Option 4a	Section [0910], enter [070] Section [0911], enter [000] Section [0912], enter [008] Section [0913], enter [010] Section [0914], enter [070] Section [0915], enter [000] Section [0916], enter [009] Section [0917], enter [000]	PGM activate and deactivate follow pre-programmed clock PGM 1 activate at 8:10am and deactivate at 9am PGM 2 activate at 1:30pm and deactivate at 4:30pm
Option 4b	Section [0920], enter [070] Section [0921], enter [000] Section [0922], enter [013] Section [0923], enter [030] Section [0924], enter [070] Section [0925], enter [000] Section [0926], enter [016] Section [0927], enter [030]	

For more options, refer to System Programming Outputs page 21.

Wiring connection: POSITIVE leg of LED to AUX + and NEGATIVE leg of LED (with 1k resistor) to PGM 1.
Note: PGM 1 only support 50mA, a Relay is needed if more than 50mA. PGM 2 and 3 are contact (COM & NO).

Step 7: Remote Control

- Remote control button template (By default Template 1 is [1BC0])

Section [2900], enter [1,2,8,8] then press ENTER to save. For Template 1
 Section [2901], enter [1,2,8,8] then press ENTER to save. For Template 2
 ...up to section [2915] for template 16

- Assign a Button Template to a user

Section [2941], [enter 3 digit user no.], then [enter 2 digit template from 00 to 15 (template 1 to 16)]

For example:

Section [2941], enter[001] then [00]. Remote control for user 1 is follow template 1.
 Section [2941], enter[002] then [00]. Remote control for user 2 is follow template 1.

- Enroll Remote Control to a User (not in programming mode)

Key in [Master code, default is 1234], press [0] then [ACC], enter [3 digit user no, 001 for master user 1] and then press arrow Up button until you see 'Remote #' [**Press Remote Button Twice OR manually enter the serial number**] and press ENTER to save.

For Example:

Key in [1234], press [0] then [ACC], enter [001] and press arrow UP button until you see 'REMOTE' , then [**press any button on remote control twice to enroll OR manually enter the serial number**] [ENTER]

	Button 1	Button 2	Button 3	Buttons 2+3	Disarm
MG-REM1					
MG-REM2					
Default (1 B) (C 0)	Regular Arm	Utility Key 1	Utility Key 2	Disabled	Disarm: cannot be modified

Entry	Function	Entry	Function
[0]	Button Disabled	[8]	Panic 1
[1]	Regular Arm	[9]	Panic 2
[2]	Stay Arm	A = [stay]	Panic 3
[3]	Instant Arm*	B = [force]	Utility Key 1
[4]	Force Arm*	C = [arm]	Utility Key 2
[5]	N/A	D = [disarm]	Utility Key 3
[6]	N/A	E = [byp]	Utility Key 4
[7]	N/A	F = [mem]	N/A

* Version V1.10 or higher

Step 8: Expansion Modules Programming Guide

To enter Programming Mode (it is advisable to use LCD to do this programming):

1. Press and hold the [0] key
2. Enter [000000] (*SECTION will be displayed on LCD keypad*), you are in the programming mode
3. Enter SECTION **[4003]** (*NOTE: this 4003 is common section applicable for all the expansion modules*)

Then, choose one of the following expansion module's serial number

4. Enter 8-digit [Serial number] of the Expansion module
5. Enter 3-digit [SECTION] you wish to program
6. Enter required [DATA]

Press [ENTER] to confirm or [CLEAR] to ignore

A: LCD keypad (EVO641)

Section [003], ON key [2,3 & 8], to display exit delay, entry delay and time on keypad

B: Addressable PIR (DGP2-50 / DGP2 – 60 / DGP2 – 70)

Section [001], On key 1, for less sensitive

Section [002], enter [003], meaning 001 is for very sensitive, 002 normal and 003 less sensitive. (default is 002)

C: Magellan 2 Way Wireless Transceiver Module (MG-RTX3)

Section [001], On key [1], for low battery supervision

Press section [101], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 1st input of the transceiver)
Press section [102], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 2nd input of the transceiver)
Press section [103], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 3rd input of the transceiver)
Press section [104], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 4th input of the transceiver)
Press section [105], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 5th input of the transceiver)
Press section [106], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 6th input of the transceiver)
Press section [107], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 7th input of the transceiver)
Press section [108], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 8th input of the transceiver)
Press section [109], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 9th input of the transceiver)
Press section [110], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 10th input of the transceiver)
Press section [111], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 11th input of the transceiver)
Press section [112], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 12th input of the transceiver)
Press section [113], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 13th input of the transceiver)
Press section [114], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 14th input of the transceiver)
Press section [115], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 15th input of the transceiver)
Press section [116], enter [6 digit S/N], 6 digits is the transmitter S/N. (becomes 16th input of the transceiver)
Up to section [132], for 32nd input of the transceiver

D: 8 zone hardwire module (APR-ZX8)

- Section 003, enter [003], input 1 on board for 45 ms for vibration sensor
- Section 005, enter [003], input 2 on board for 45 ms for vibration sensor
- Section 007, enter [003], input 3 on board for 45 ms for vibration sensor
- Section 009, enter [003], input 4 on board for 45 ms for vibration sensor
- Section 011, enter [003], input 5 on board for 45 ms for vibration sensor
- Section 013, enter [003], input 6 on board for 45 ms for vibration sensor
- Section 015, enter [003], input 7 on board for 45 ms for vibration sensor
- Section 017, enter [003], input 8 on board for 45 ms for vibration sensor

Note: 001 for 15 ms, 002 for 30ms, 003 for 45ms, 004 for 60 ms.....default is 600ms

E: 4 zone hardwire module (APR3-ZX4)

- Section 003, enter [003], input 1 on board for 45 ms for vibration sensor
- Section 005, enter [003], input 2 on board for 45 ms for vibration sensor
- Section 007, enter [003], input 3 on board for 45 ms for vibration sensor
- Section 009, enter [003], input 4 on board for 45 ms for vibration sensor

Note: 001 for 15 ms, 002 for 30ms, 003 for 45ms, 004 for 60 ms.....default is 600ms

F: 1 zone hardwire module (DGP2-ZX1)

- Section 002, enter [006], input 1 on board for 60 ms for vibration sensor

Misc. 1 – MISC

- **Walk test** – where Siren will squawk to indicate opened zones

For K641/K641R Keypad

To active : Press & hold [0], then enter [00000], press [MEM] [ENTER] [CLEAR]
To De-active : Press [MEM] again once to exit walk test mode

For K656 keypad

To active : Press & hold [0], then enter [00000], press [] [ENTER] [CLEAR]
To De-active : Press [] again once to exit walk test mode

Note: MUST de-active or else system cannot be armed even though keypad shows “Ready”.

- **Clear TBL 8** – Timer loss

Press [TRBL] key, then [8] key, enter [HH:MM] then [YYYYMMDD], [CLEAR]

E.g.: Press [TRBL] key, then [8] key, enter [15:30] then [2000830], [ENTER]

- **Answer Winload software / pickup the line**

Press & hold [0], then enter [000000], press [ARM]

- **Cancel dialer**

Press & hold [0], then enter [000000], press [DISARM]

- **Start module scan**

Press & hold [0], then enter [000000], press [TRBL]

The keypad will display the serial number of each module on the bus

- **Read voltage at keypad bus**

Press & hold [0], then enter [000000], press [ACC]

A reading of 12.3V or lower that indicates voltage is too low.

Misc. 2 – Default setting

- **Display serial number of control panel and all modules**

Keypad will display the 8-digit serial number of control panel and all modules

Press & hold [0], then enter [000000], you are in the programming mode
Then, key in [4000], use [^] and [V] to scroll.

- **Module reset**

Reset a module's programming contents to default by entering its serial number

Press & hold [0], then enter [000000], you are in the programming mode
Then, key in [4001], then enter [8-digits serial number], the module will be defaulted.

- **Remove modules**

Control panel will scan all modules connected to the bus and remove those modules already disconnected.

Press & hold [0], then enter [000000], you are in the programming mode
Then, key in [4005], wait for few minutes and it will exit programming mode by itself.

- **Default master code to 1234**

To reset missing master code back to default:1234

Press & hold [0], then enter [000000], you are in the programming mode,
Key in section [4049],
Then, key in [4041].

- **Default all programming back to factory default**

To reset all programming back to factory default

Press & hold [0], then enter [000000], you are in the programming mode
Key in section [4049],
Then, key in [4040].

- **Hardware Reset**

To default section [0001] to [3991], only the panel ID, PC password, PC Telephone Number and Event buffer are not reset. The installer code lock prevents hardware reset.

Press & Hold the Reset and Aux buttons for 3 seconds.
The panel will reset to default.

SECTION C: User Operations

Normal function:

Regular Arming	Key in [4 digit user code], then press [ARM]
Stay Arming	Key in [4 digit user code], then press [STAY]
Instant Arming	Key in [4 digit user code], then press [INSTANT = Key5]
Force Arming	Key in [4 digit user code], then press [FORCE]
Bypass	Key in [4 digit user code], then press [BYP], ENTER [2 digit zone] & [ENTER]
Disarm	Key in [4 digit user code]

One-Touch Button:

Arm	Press and hold [ARM] for 3 seconds
Stay	Press and hold [STAY] for 3 seconds
Force	Press and hold [FORCE] for 3 seconds
Instant	Press and hold [INSTANT=Key 5] for 3 seconds

Panic function:

Press [1] & [3] at the same time, for Emergency panic alarm..
 Press [4] & [6] at the same time, for Auxiliary / Police panic alarm.
 Press [7] & [9] at the same time, for Fire panic alarm.

Activating a chime zone:

LED: Enter [4 digit user code], then press [9], [1][3 digits zone number], [CLEAR] to exit
 LCD: Enter [4 digit user code], then press [9], [1], [^] or [v] button to scroll the zone, press [ACC] to enable or disable chime. Then [ENTER] to save.

- **Change Master / create new user code**

Enter [master code], Press [0], press [ACC] [3 digit user, 001 for master, 002 for user 2...up 999 for user 999] [4 digits new code][ON key for user options], press [↑] to program area assignment.

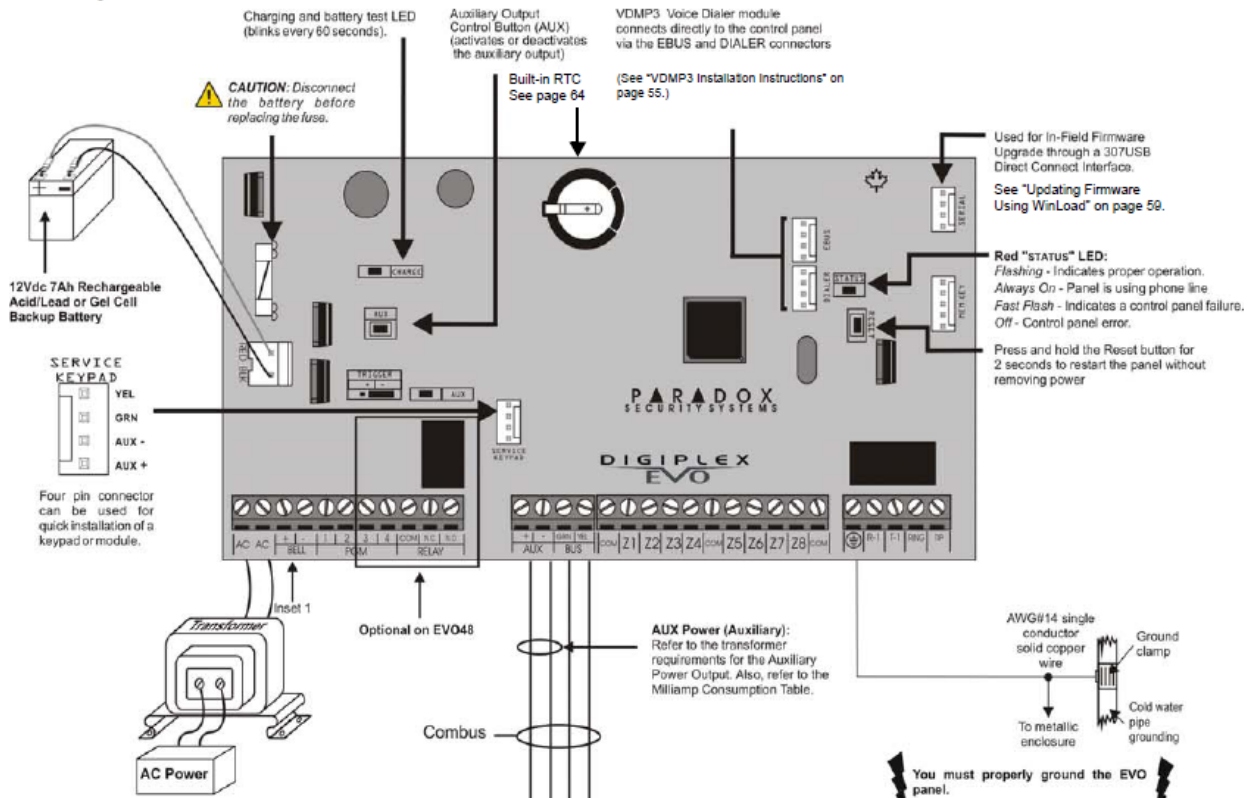
E.g.:

[1234] [0] [ACC][001] [5678][ENTER], where 001 is master user and 5678 is the new master code.
 [1234] [0] [ACC][002] [7878][ON key 4,6,7 & 8] [↑] [2][ENTER], where 002 is user 2 and 7878 is the user 2 code and only control partition 2.
 [1234] [0] [ACC][999] [5354][ON key 3,4,6,7 & 8][ENTER], where 999 is duress code.

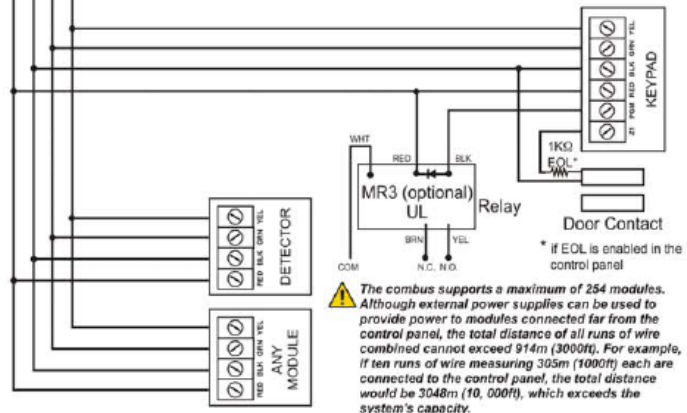
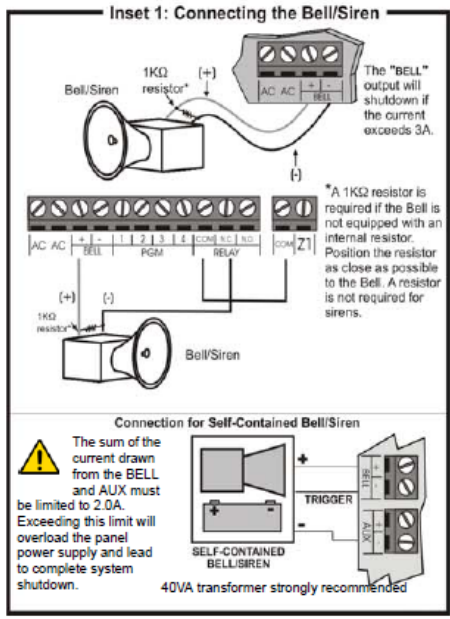
Section	User code options	User partition assignment
Section [001] for user 01 (master)	[1] ON & [2] OFF – user can program user code	[1] user has access to
Section [002] for user 02	[1] ON & [2] ON – user can program user code,	Partition 1.
Section [003] for user 03	options and partition assignment.	[2] user has access to
...up to	[3] ON for duress	Partition 2.
Section [999] for user 999	[4] ON for Bypass [default is ON]	[3] user has access to
	[5] ON arm only	Partition 3.
	[6] Stay & Instant	.. up to
	[7] Force	[8] user has access to
		Partition 8.

SECTION D: WIRING DIAGRAM

PCB Layout



Transformer Requirements:	Minimum:	Maximum:
	16.5VAC; 20VA	16.5VAC; 40VA
Auxiliary Supply can provide:	typical 600mA max. 700mA 1.1A	typical 600mA max. 700mA 1.1A
Automatic Shut Down	typical 600mA max. 700mA 1.1A	typical 600mA max. 700mA 1.1A
Usable Battery Charge Currents:	350mA 350mA	850mA max.



PLEASE NOTE:
 When powering up the EVO control panel, the panel will begin a module scan to verify if all the modules connected to the panel are operational. The scanning process will take between 30 and 120 seconds to complete depending on the number of modules connected to the control panel. The module scan is complete when the LCD keypad begins to show the partition status. Only after the module scan is complete will the control panel be fully operational.

When installing the combus wires in a noisy environment, or when connecting the combus across separate buildings, you must use a shielded cable. Refer to *Connecting the Combus in Noisy Environments* on page 64.

Refer to the UL and ULC Warnings section of the EVO Reference & Installation Manual for UL and ULC warnings.

Frequently Asked Questions

FAQ1: Partitioning

STEP 1: Zone programming

Press & hold [0], then enter [000000], you are in the programming mode

Press section [0101], [6,1, ENTER, CLEAR], means ZONE 1 Instant, Partition 1.

Press section [0102], [6,1, ENTER, CLEAR], means ZONE 2 Instant, Partition 1.

Press section [0103], [6,2, ENTER, CLEAR], means ZONE 3 Instant, Partition 2.

Press section [0104], [6,2, ENTER, CLEAR], means ZONE 4 Instant, Partition 2.

Press section [0105], [1,1, ENTER, CLEAR], means ZONE 5 Delay, Partition 1.

STEP 2: Enable partition features

Section 3031, ON key [1,2] for partition 1 and 2

Section 3031, ON key [1,2,3] for partition 1, 2 and 3

Section 3031, ON key [1,2,3,4] for partition 1,2,3 and 4

Up to 4 partitions for EVO48, and 8 partitions for EVO192

Section 3032, ON key [1,2] enable bell for partition 1 and 2

Section 3032, ON key [1,2,3] enable bell for partition 1, 2 and 3

Section 3032, ON key [1,2,3,4] enable bell for partition 1,2,3 and 4

STEP 3: User authority (NOT in Installation programming, BUT in master programming)

Enter [master code], Press [0], press [ACC] [3 digit user, 001 for master, 002 for user 2...] [4 digits new code], user options[ON 4,6,7 & 8], press [↑], assign area [ON 2], then press [ENTER][CLEAR].

STEP 4: User operation (Master code: 1234)

Arm/Disarm using Master Code which can access both partition:

To arm both partitions: [1234] [ARM] [0], arm partition 1 and 2

To disarm both partitions: [1234] [DISARM] [0]

To arm partition 1: [1234] [ARM] [1]

To disarm partition 1: [1234] [DISARM] [1]

To arm partition 2: [1234] [ARM] [2]

To disarm partition 2: [1234] [DISARM] [2]

FAQ 2 – How to wire a smoke detector on EVO

Diagram for additional RELAY board (12V DC coil and AC/DC contact) to reset smoke detector, you also need to program PGM output, as follows:

Press & hold [0], then enter [000000], you are in the programming mode

Step 1:

Section [0910], enter [004]

Section [0911], enter [000]

Section [0912], enter [001]

Section [0913], enter [001]

Section [0919] [ON key 1] [ENTER] [CLEAR], means PGM 1 deactivate after timer (5 seconds).

To reset smoke detector once trigger: Press and hold [ENTER] & [CLEAR] for 2 seconds.

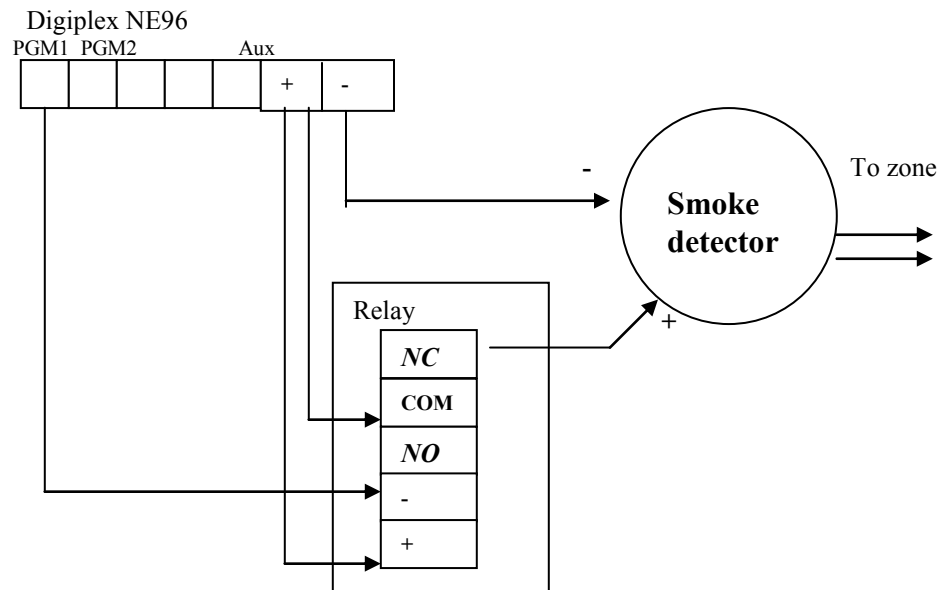
Step 2:

Program zone type to Fire zone, value is [D]

Example:

Press section [0108], [D,1, ENTER], means ZONE 8 is FIRE zone, Partition 1.

Step 3: Wiring



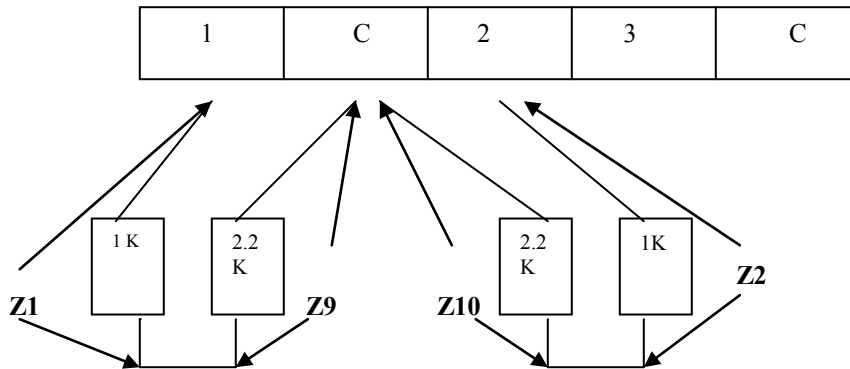
Note: The purpose of Relay is to reset smoke power. By pressing [CLEAR] & [ENTER] together for 3 seconds it will reset smoke detector. Once zone 2 set as FIRE zone, zone 10 will be disabled automatically.

FAQ 3 – Zone doubling

Zone Doubling: [1/9] [2/10] [3/11] [4/12] [5/13] [6/14] [7/15] [8/16]

Zone 1,2,3,4,5,6,7 & 8 use **1K** resistor, and zone 9,10,11,12,13,14,15 & 16 use **2.2K** resistor.

A: Main Board Wiring



B: Programming

In the programming mode,

Press section [3033], [OFF key 7 & ON key 8], then press [ENTER][CLEAR], means disable EOL resistors and enable zone doubling.

Important note: For zone doubling, the zone speed setting in section [200] to [216] should be [005] and above to avoid false alarm caused by vibration sensors.

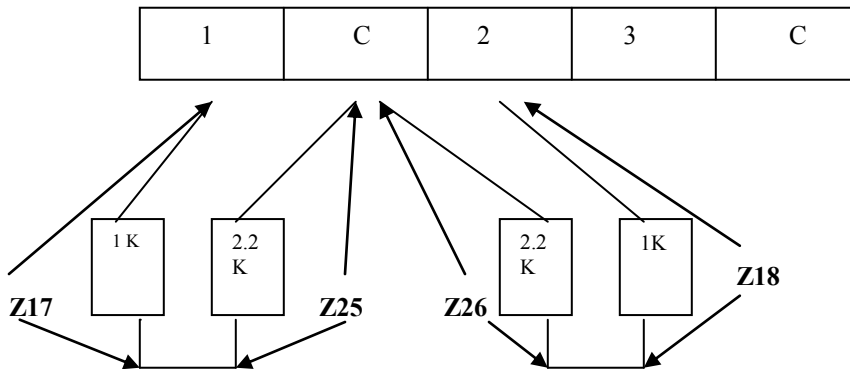
All Sensors must be NC (Normally Close).

C: 8 Zone Expander (APR-ZX8)

APR-ZX8 - [17/25] [18/26] [19/27] [20/28] [21/29] [22/30] [23/31] [24/32]

Zone 17,18,19,20,21,22,23 & 24 use **1K** resistor, and zone 25,26,27,28,29,30,31 & 32 use **2.2K** resistor.

D: APR-ZX8 Wiring



FAQ 4 – Card access

1. Activating access control

Section [3038] [ON key 1]

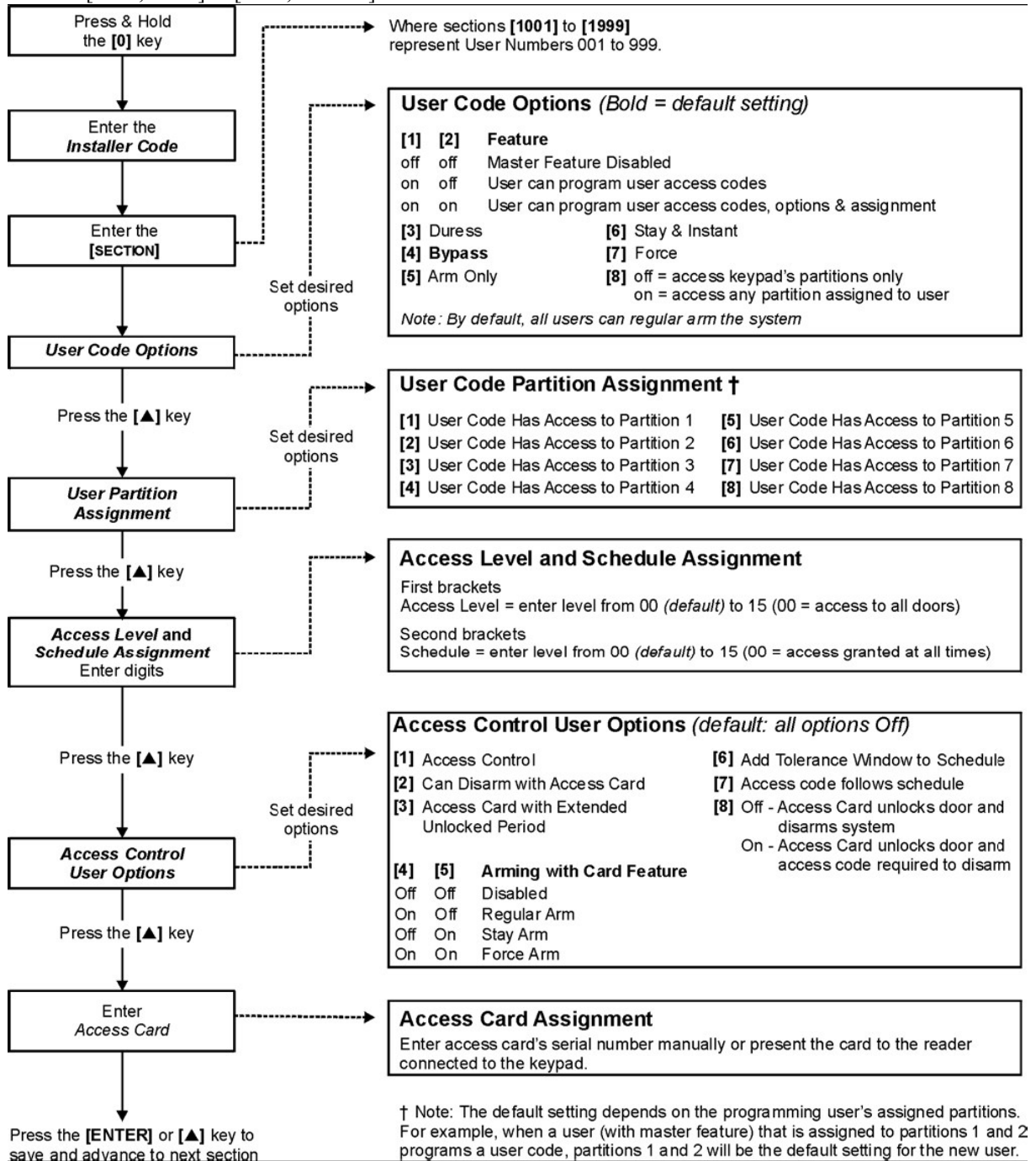
2. Assigning a door to the system

Enter the serial number of ACM1 or DGP2-641AC

Section [2201, door1] to [2232, door 32]

3. User options

.Section [1001, user1] to [1999, user999]



4. Enable REX (Push button to request exit)

In module programming (enter DGP2-ACM11 serial number first in section 4003)

Section [002] [ON key 8]

* If the door contact is not used, connect a jumper or a 1k resistor across the AUX- and CT (If Control panel dint enable EOL, so no need to connect resistor to CT).

FAQ 5 -To program Listen-in module

[Press & hold 0][000000][4003][DGP2-LSN4 Serial Number], you are in module programming now.

Continuous Recording Features:

- Recording audio up to 120 seconds before and after an alarm through the substation. This recording can then be played back while connected by monitor station or user.

Section [005] [On key 4]

Pre-alarm audio recording

- Duration of the audio recording before an alarm

Section [035] [015], it can be set from 5 to 115 seconds

Post-alarm audio recording

- Duration of the audio recording after an alarm

Section [036] [015], it can be set from 5 to 115 seconds

* Pre-alarm and post-alarm audio recording cannot be higher than 120 seconds.

Background Music on Substation

Section [006] [On key 5]

Substation 1 Panic Button Option

Section [013]

Key 1	Key 2	Option
OFF	OFF	Disabled (default)
ON	OFF	Police Panic
OFF	ON	Medical Panic
ON	ON	Fire Panic

Substation Panic Audible Feedback

- When the panic button on the substation is pressed and held for 2 seconds or more, it will generate a panic message.

Section [014] [On key 1]

User Connection Access

Set this to [000] to allow all are able to access to the listen-in module.

Section [024] [enter 000]

Ring Count

Section [025] [003], listen-in module pick up after 3 rings.

Listen In Module Procedure

For User:

1. At any time with no alarm trigger or after the Call Back Connection Delay has lapsed; a user can call the Listen-In Module to access the module. Default is 6 rings pick up. After pick up, key in [User Code] to access the User Menu (if no alarm trigger, user can access User Menu only).

User Menus:

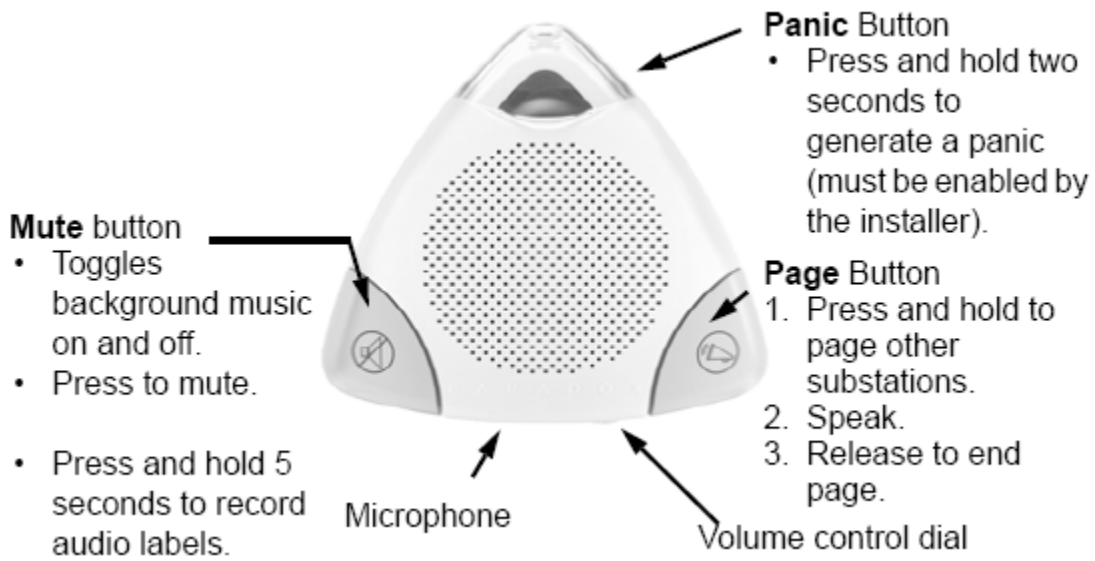
Listen-In

Key	Action
[1]	Activate Listen-In on Substation 1
[2]	Activate Listen-In on Substation 2
[3]	Activate Listen-In on Substation 3
[4]	Activate Listen-In on Substation 4
[5]	Activates Listen-In on all Substations
[6]	Plays the last Alarm Recorded Audio or skip the next 10 seconds of recording when listening (if enabled)
[7]	Toggle between Listen-In and Two-Way Communication
[8]	Toggle between high and normal phone volume
[9]	Toggle between high and normal on-site speaker volume
[*]	Switches to Arm/Disarm menu
[#][#]	End communication
[#][0]	Activates or deactivate the siren bypass relay (if the system siren is connected through the Listen-In module relay)
[0]	Stop and restart menu options

Arm/Disarm

Key	Action
[1]	Arms or disarms Area 1 of the system
[2]	Arms or disarms Area 2 of the system
[3]	Arms or disarms Area 3 of the system
[4]	Arms or disarms Area 4 of the system
[5]	Arms or disarms Area 5 of the system
[6]	Arms or disarms Area 6 of the system
[7]	Arms or disarms Area 7 of the system
[8]	Arms or disarms Area 8 of the system
[0]	Arms or disarms the entire system
[*]	Switches to Listen-In menu
[#][#]	End communication
[#][0]	Activates or deactivate the siren bypass relay (if the system siren is connected through the Listen-In module relay)

Substation Overview



Mute Button Functionality

If the music is:	If the Background Music Input is disabled, the mute button will only toggle the Mute option
ON	To turn OFF: Press Mute once To mute: Press Mute twice within 5 seconds
OFF	TO turn ON: Press Mute once To mute: Press Mute three ties within 5 seconds
Muted (Red LED on)	To turn ON: Press Mute once To turn OFF: Press Mute twice within 5 seconds

FAQ – How to Program Remote without an EVO641/EVO641R

If the system include MG-RTX3 **But does not include** EVO641/EVO641R:

If the EVO48 System Includes:

⚠	MG-RTX3 Wireless Expansion Module And EVO641 / EVO641R keypad	Up to 96 remote controls can now be programmed into the EVO control panel and configured using a master code or installer code.
---	---	---

If the EVO192 System Includes:

⚠	MG-RTX3 Wireless Expansion Module And: EVO641 / EVO641R keypad	Up to 999 remote controls can now be programmed into the EVO control panel and configured using a master code or installer code.
---	--	--

If the System Includes:

⚠	MG-RTX3 Wireless Expansion Module But does not include: EVO641 / EVO641R keypad	Remote controls must be stored in the wireless expansion module (32 remotes per MG-RTX3).
---	--	---

Section [3029], On key 1 to enable if using an MG-RTX3 without EVO641/ EVO641R KP

Note : After On key 1 at section [3029], MUST exit programming before proceed to following steps!!!!

To enter Programming Mode:

1. Press and hold the [0] key
2. Enter [000000] (*SECTION will be displayed on LCD keypad*), you are in the programming mode
3. Enter SECTION **[4003]**
4. Enter 8-digit [Serial number of MG-RTX3]
5. Enter 3-digit [SECTION] you wish to program
6. Enter required [DATA]

For MG Remote Control

- Program Remote to recognize the panel

Press section [201][Press Button A slowly and firmly on remote control no.1 TWO times](you will hear a confirmation beep).

Press section [202][Press Button A slowly and firmly on remote control no.2 TWO times](you will hear a confirmation beep).

....up to [232] for remote controls 32.

- Assign Remote to follow panel's user number

Press section [301], enter [3 digit user no.], for remote control 1.

Press section [302], enter [3 digit user no.], for remote control 2.

...up to [332] for remote control 32.

- Button assignment (for button A, B, C, D)

Press section [401], enter [1,5,7,7], for remote control 1.

Press section [402], enter [1,5,7,7], for remote control 2.

...up to [432] for remote 32.

Note:

Meaning Button A (TOP) assigned for Regular Arming, Button B (BOTTOM) assigned for Disarm and Button C (LEFT) & D (RIGHT) are assign for Panic (same as keypad panic 1& MUST program in section [3123][ON key 1 & 4], or else, it will not function).

[0] = Button Disabled	[8] = Panic 2† (Non-Medical)
[1] = Regular Arm	[9] = Panic 3† (Fire)
[2] = Stay Arm	[stay] = Smoke reset
[3] = Instant Arm	[force] = Utility Key 1*
[4] = Force Arm	[arm] = Utility Key 2*
[5] = Disarm	[disarm] = Utility Key 3*
[6] = Stay/Instant Disarm	[byp] = Utility Key 4*
[7] = Panic 1† (Police)	[mem] = Utility Key 5*
[clear] = Exit without saving	[enter] = Save data

SECTION E: TROUBLE DISPLAY

K641/K641R and K648

To view the trouble display on the K641/K641R and K648 keypads:

1. Press **TRBL**.
2. To view the specific trouble:
 - a. For K648, press the numerical symbol corresponding to the *Group* heading.
 - b. For K641/K641R, press the trouble's corresponding number key and use the **▲** and **▼** keys.

K656

To view the trouble display on the K656 keypad:

1. Press **MENU**.
2. Press **5** or scroll to the **View Trouble** sub-menu using the **▲** and **▼** keys, and then press **ENTER**.
3. Press the trouble's corresponding number key and use the **▲** and **▼** keys to view the specific trouble.

Grafica

To view the trouble display on Grafica keypads:

1. Enter your access code.
2. Using the scroll keys, highlight *Trouble* and then press the center action key (*Ok*). The troubles will appear by trouble group. If more than one trouble group appears, highlight the desired group before pressing the center action key (*View*), to view the specific trouble.

Trouble Groups

Table 55: Trouble groups for the EVO system

Group	#	Description	Group	#	Description	Group	#	Description	Group	#	Description
1: System	1	AC failure	2: Communicator	1	TLM1	3: Module Trouble	1	Module tamper	4: Network (Combus) Troubles	1	Missing keypad
	2	Battery trouble		2	Fail to Com. 1		2	Module ROM check error		2	Missing module
	3	Aux. current limit		3	Fail to Com. 2		3	Module TLM trouble		3	Missing voice module
	4	Bell current limit		4	Fail to Com. 3		4	Module Fail to Com.		6	General failure
	5	Bell absent		5	Fail to Com. 4		5	Printer trouble		7	Combus overload
	6	ROM check error		6	Fail to Com. PC		6	Module AC failure			
	7	RAM check error			7		Module battery failure				
				8	Module supply output						
5: Zone Tamper		Press 5 to display the tampered zone or zones	6: Zone Low Battery		Press 6 to display the zone(s) assigned to wireless devices with low batteries	7: Zone Fault		Press 7 to display the zone(s) experiencing a communication, a fire loop, or CleanMe™ trouble.	8: Clock Loss		Press 8 to re-program the time
9: GSM Troubles	1	Missing GSM module	9: GSM Troubles (cont.)	6	Fail to communicate with IP receiver 2	10: IP Troubles	1	Missing IP module	10: IP Troubles (cont.)	5	Fail to communicate with IP receiver 3
	3	GSM RF jam supervision		7	Fail to communicate with IP receiver 3		2	No service		6	Fail to communicate with IP receiver 4
	4	No service		8	Fail to communicate with IP receiver 4		3	Fail to communicate with IP receiver 1		7	IP receiver unregistered
	5	Fail to communicate with IP receiver 1		9	IP receiver unregistered		4	Fail to communicate with IP receiver 2			