



V16 Plus Programming Command Summary V1.6

FLI 015

Enter Installer Programming Mode: [*] + [MODE] + [5-digit Installer Code] + [#]

Exit Installer Programming Mode: [*] + [MODE] + [#]

Default installer code : 1 2 3 4 5

PC	Item	Description	Zone LED
User Code Options			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
01	Partition 1 Access	Zone LED ON means the user code has access to partition 1 (*Zone 1 LED represents Master User, Zone 2 LED represents User Code 1, etc.)	●●●●● ●●●●● ●●●●● ●●×●●
02	Partition 2 Access	Zone LED ON means the user code has access to partition 2 (*Zone 1 LED represents Master User, Zone 2 LED represents User Code 1, etc.)	●○○○○ ○○○○ ○○○○ ○○×●●
03	Intelligent Arming	Zone LED ON means intelligent arming is enabled for this user code (*Zone 1 LED represents Master User, Zone 2 LED represents User Code 1, etc.)	●●●●● ●●●●● ●●●●● ●●××
04	Disarming	Zone LED ON means disarming is enabled for this user code (*Zone 1 LED represents Master User, Zone 2 LED represents User Code 1, etc.)	●●●●● ●●●●● ●●●●● ●●×●●

* User Code 15 is ONLY assigned to EM Lock Control and User Code 16 is Duress Code

Zone Type Settings (Zone 1 – Zone 16)			
05	Fire Zones	Zone LED ON means smoke detector is connected to this zone	○○○○○ ○○○○ ○○○○ ○○○○
06	24-Hour Zones	Zone LED ON means the zone is assigned as 24-hour zone	○○○○○ ○○○○ ○○○○ ○○○○
07	Instant Zones	Zone LED ON means the zone is assigned as instant zone	○●●●● ●●●●● ●●●●● ●●●●●
08	Delay Zones	Zone LED ON means the zone is assigned as delay zone	●○○○○ ○○○○ ○○○○ ○○○○
09	Follow Zones	Zone LED ON means the zone is assigned as zone follower	○○○○○ ○○○○ ○○○○ ○○○○
10	Day Stay Zones	Zone LED ON means the zone is assigned as day stay zone	○○○○○ ○○○○ ○○○○ ○○○○
11	Night Stay Zones	Zone LED ON means the zone is assigned as night stay zone	○○○○○ ○○○○ ○○○○ ○○○○
12	Silent Zones	Zone LED ON means the zone is assigned as silent (24-hour) zone	○○○○○ ○○○○ ○○○○ ○○○○
13	Light Zones	Zone LED ON means the zone is assigned as light zone	○○○○○ ○○○○ ○○○○ ○○○○

*Zone circuit type for Zone 1 to 16 is End of Line

Other Zone Settings (Zone 1 – Zone 16)			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
14	Zones Assigned to Partition 1	Zone LED ON means the zone is assigned to partition 1	●●●●● ●●●●● ●●●●● ●●●●●
15	Zones Assigned to Partition 2	Zone LED ON means the zone is assigned to partition 2	○○○○○ ○○○○ ○○○○ ○○○○

Zone Sensitivity 1 (Zone 1 – Zone 16)			
16	Zones Response	Zone LED ON means the zone is programmed as Fast Response Zone LED OFF means the zone is programmed as Slow Response (*Zone response time open for setting in [56 & 57])	●●●●● ●●●●● ●●●●● ●●●●●
17	Zone Trip Count Group	Zone LED ON means the zone is programmed to the zone trip count group (*Zone trip counter open for setting in [58])	○○○○○ ○○○○ ○○○○ ○○○○

PC	Item	Description	Zone LED
CMS Reporting Settings			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
18	CMS Zone Reporting	Zone LED ON means zone alarm/restore will report to CMS	●●●● ●●●● ●●●● ●●●●
19	CMS Reporting (*Ademco Contact ID Format)	Zone 1 LED ON means enable keypad emergency buttons (F,M,P) report Zone 2 LED ON means enable duress report Zone 3 LED ON means enable arm/disarm report Zone 4 LED ON means enable bypass report Zone 5 LED ON means enable AC fail report Zone 6 LED ON means enable low system battery report Zone 7 LED ON means enable siren fail report Zone 8 LED ON means enable system reset report	●●●● ●●●● x x x x x x x x

System Reporting Settings 1			
20	Communicator Settings	Zone 1 LED ON means enable CMS Reporting Zone 2 LED ON means enable Personal Reporting Zone 3 LED ON means enable Double Call (Fax/Answering Machine Override) Zone 4 LED ON means enable Real Time Telephone Line Detection Zone 5 LED ON means enable Siren ON If Telephone Line Fail Zone 6 LED ON means enable AC Fail Personal Reporting Zone 7 LED ON means enable Siren Fail Personal Reporting Zone 8 LED ON means enable Battery Low Personal Reporting Zone 9 LED ON means enable Full Personal Reporting Zone 10 LED ON means enable Mandarin Voice ELSE English Voice	○●○○ ○○○○ ○○x x x x x x

Home Automation Setting			
21	Zone 1 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
22	Zone 2 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
23	Zone 3 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
24	Zone 4 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
25	Zone 5 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
26	Zone 6 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
27	Zone 7 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
28	Zone 8 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
29	Zone 9 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
30	Zone 10 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○

PC	Item	Description	Zone LED
Home Automation Setting			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
31	Zone 11 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
32	Zone 12 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
33	Zone 13 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
34	Zone 14 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
35	Zone 15 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
36	Zone 16 Triggered HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
Home Automation Timers			
37	Timer 1 Triggered HA Points	Zone LED ON means enable HA point to turn ON (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
38	Timer 2 Triggered HA Points	Zone LED ON means enable HA point to turn ON (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
39	Timer 3 Triggered HA Points	Zone LED ON means enable HA point to turn ON (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
40	Timer 4 Triggered HA Points	Zone LED ON means enable HA point to turn ON (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
Home Automation Scene Control Setting			
41	Scene 01 HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
42	Scene 02 HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
43	Scene 03 HA Points	Zone LED ON means enable HA point to turn ON during Night Time (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
Home Automation Auto Off Timer Setting			
44	Zone Triggered HA Points Timer Selection	Zone LED ON means enable HA point to turn OFF according to Home Automation Auto Off Timer [78] ELSE HA points will turn ON permanently after triggered (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○
Home Automation Auto Off Timer Setting			
45	Holiday Mode HA Points (1 am to 7 am)	Zone LED ON means enable HA point to turn ON from 1am to 7am (*Zone 1 LED represents HA point 1, Zone 2 LED represents HA point 2, etc.)	○○○○ ○○○○ ○○○○ ○○○○

System Options			
46	System Options	<p>Zone 1 LED ON means enable Partitioning</p> <p>Zone 2 LED ON means enable Keypad Buzzer during Entry Delay 1 & 2</p> <p>Zone 3 LED ON means enable Keypad Buzzer during Exit Delay 1 & 2</p> <p>Zone 4 LED ON means enable Keypad Emergency Buttons (F,M,P)</p> <p>Zone 5 LED ON means enable Backup Battery Test Hourly</p> <p>Zone 6 LED (Reserved)</p> <p>Zone 7 LED ON means enable Power Up Delay for 2 minutes</p> <p>Zone 8 LED (Reserved)</p> <p>Zone 9 LED ON means enable PO1 as Exit Delay Indicator ELSE Arm/Disarm Indicator</p> <p>Zone 10 LED ON means enable PO2 as EM Lock Control ELSE Alarm Triggered Indicator</p> <p>Zone 11 LED ON means keyswitch is assigned as Momentary ELSE Latch</p> <p>Zone 12 LED ON means keyswitch is assigned as Normally Close ELSE Normally Open</p> <p>Zone 13 LED ON means enable Siren Toot ELSE Strobe Light Indication on Keyswitch Arm or Disarm</p> <p>Zone 14 LED ON means keyswitch is assigned to Partition 1</p> <p>Zone 15 LED ON means keyswitch is assigned to Partition 2</p>	<p>○●●●● ●×○× ○○●○ ●●○×</p>

PC	Item	Description	Zone LED
System ID Setting			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
47	ID Activation for Keypads and Modules	<p>Zone 1 LED ON means Keypad 1 ID is activated</p> <p>Zone 2 LED ON means Keypad 2 ID is activated</p> <p>Zone 3 LED ON means Keypad 3 ID is activated</p> <p>Zone 4 LED ON means Keypad 4 ID is activated</p> <p>Zone 5 LED ON means HA Module 1 ID is activated</p> <p>Zone 6 LED ON means HA Module 2 ID is activated</p> <p>Zone 7 LED ON means HA Module 3 ID is activated</p> <p>Zone 8 LED ON means HA Module 4 ID is activated</p> <p>Zone 9 LED ON means Zone Expander Module ID is activated</p> <p>Zone 10 LED ON means GSM Module ID is activated</p> <p>Zone 11 LED ON means App ID is activated</p>	<p>●○○○ ○○○○ ○○○× ××××</p>

PC	Item	Description	Zone LED
GSM Reporting Setting 1			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
48	GSM Reporting	<p>Zone 1 LED ON means enable GSM CMS Reporting</p> <p>Zone 2 LED ON means enable GSM Personal Reporting</p> <p>Zone 3 LED ON means enable GSM SMS Reporting to 1st Personal Telephone Number</p> <p>Zone 4 LED ON means enable GSM SMS Reporting to 2nd Personal Telephone Number</p> <p>Zone 5 LED ON means enable GSM SMS Reporting to 3rd Personal Telephone Number</p> <p>Zone 6 LED ON means enable GSM SMS Reporting to 4th Personal Telephone Number</p> <p>Zone 7 LED ON means enable SMS Arm/Disarm Report</p> <p>Zone 8 LED ON means enable SMS Trouble Report</p> <p>Zone 9 LED ON means enable GSM Mandarin Voice ELSE GSM English Voice</p> <p>Zone 10 LED ON means enable GSM Signal Low Reporting via Fixed Line</p> <p>Zone 11 LED ON means enable GSM SMS Door Status Report</p> <p>Zone 12 LED ON means enable SMS Control</p>	<p>○○○○ ○○○○ ○○○○ ××××</p>

PC	Item	Description	Default
Security Timers			
50	Entry Delay Timer Partition 1	From 0 to 255 seconds	030#
51	Entry Delay Timer Partition 2	From 0 to 255 seconds	030#
52	Exit Delay Timer Partition 1	From 0 to 255 seconds	060#
53	Exit Delay Timer Partition 2	From 0 to 255 seconds	060#
54	Siren Timer Partition 1	From 0 to 255 minutes	005#
55	Siren Timer Partition 2	From 0 to 255 minutes	005#

Zone Sensitivity 2			
56	Zone Fast Response Timer	From 1 to 255 * 10 ms	002#
57	Zone Slow Response Timer	From 1 to 255 * 10 ms	020#
58	Zone Trip Counter	From 1 to 255 times. If counter exceeds, zone trip count group [17] will trigger	005#
59	Zone Trip Counter Reset Timer	From 1 to 255 minutes. Timer used to reset zone trip counter [58]	010#
60	Keypad Lock Counter	From 1 to 255 times of password errors before keypad is locked (*To prevent password guessing on keypad)	010#
61	Keypad Lock Timer	From 0 to 255 minutes	003#

PC	Item	Description	Default
System Reporting Settings 2			
62	Maximum Dialing Attempts	From 1 to 255 dialing attempts for each CMS and Personal Reporting	005#
63	Number of Rings to Call In	From 1 to 255 rings	010#
64	CMS Periodic Test Report	From 0 to 255 hours	024#
65	CMS Account Number 1	4 digits CMS account number 1	0000#
66	CMS Account Number 2	4 digits CMS account number 2	0000#
67	CMS or PERSONAL Telephone Number 1	Maximum 14 digits telephone number 1 (Press P to pause 5s and Press M for *)	#
68	CMS or PERSONAL Telephone Number 2	Maximum 14 digits telephone number 2 (Press P to pause 5s and Press M for *)	#

System Reset			
69	Change Installer Code	5 digits Installer Code	12345#
70	Reset Master Code	Reset Master Code as [1234]	#
71	Reset Memory	Reset all programming settings except Installer Code	#

System Timers			
72	Night Time Hour Starts	From 00 to 23 (24-Hour format, e.g. press 20# for 8pm. Press 99# to disable the night time)	99#
73	Night Time Hour Ends	From 00 to 23 (24-Hour format, e.g. press 20# for 8pm. Press 99# to disable the night time)	99#

GSM CMS Reporting			
74	GSM Area Code	KL/SEL: 03, Penang/Kedah/Perlis: 04, Perak: 05, Malacca/N.Sembilan: 06, Johor: 07, Sabah/Sarawak: 8X, Pahang/Kelantan/Terengganu: 09 (Press 00 to disable GSM Area Code)	03#

PC	Item	Description	Default
Arming Scene Control Setting			
75	Away Arm HA Points Scene Control	Scene Selection from 01 to 03 (Press 00 to disable) (*Home Automation Scene Control open for setting at [41], [42], [43])	00#
76	Night Arm HA Points Scene Control	Scene Selection from 01 to 03 (Press 00 to disable) (*Home Automation Scene Control open for setting at [41], [42], [43])	00#
77	Force Arm HA Points Scene Control	Scene Selection from 01 to 03 (Press 00 to disable) (*Home Automation Scene Control open for setting at [41], [42], [43])	00#

Home Automation Auto Off Timer Setting			
78	Zone Triggered HA Points Timer	From 0 to 255 minutes (*Zone Triggered HA Points Timer Selection open for setting at [44])	003#

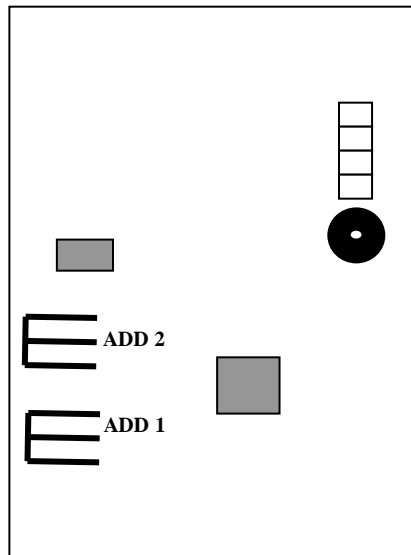
System Date Setting			
79	Date : DAY	From 01 to 31 (optional for PC model)	01#
80	Date : MONTH	From 01 to 12 (e.g. December = 12) (optional for PC model)	01#
81	Date : YEAR	From 01 to 99 (e.g. 2005 = 05) (optional for PC model)	00#









CMS Test Report Time			
82	CMS Test Report Hour	From 00 to 23 (If CMS Periodic Test Report [64] is 24 hours)	00#
83	CMS Test Report Minute	From 00 to 59 (If CMS Periodic Test Report [64] is 24 hours)	00#

Remarks: Maximum 4 Keypads, 4 HA Modules (16 HA Points) and 1 Zone Expander Module

Press [F]+[0] for 10, [F]+[1] for 11, [F]+[2] for 12, [F]+[3] for 13, [F]+[4] for 14, [F]+[5] for 15 and [F]+[6] for 16

V16 Plus Keypad ID Setting

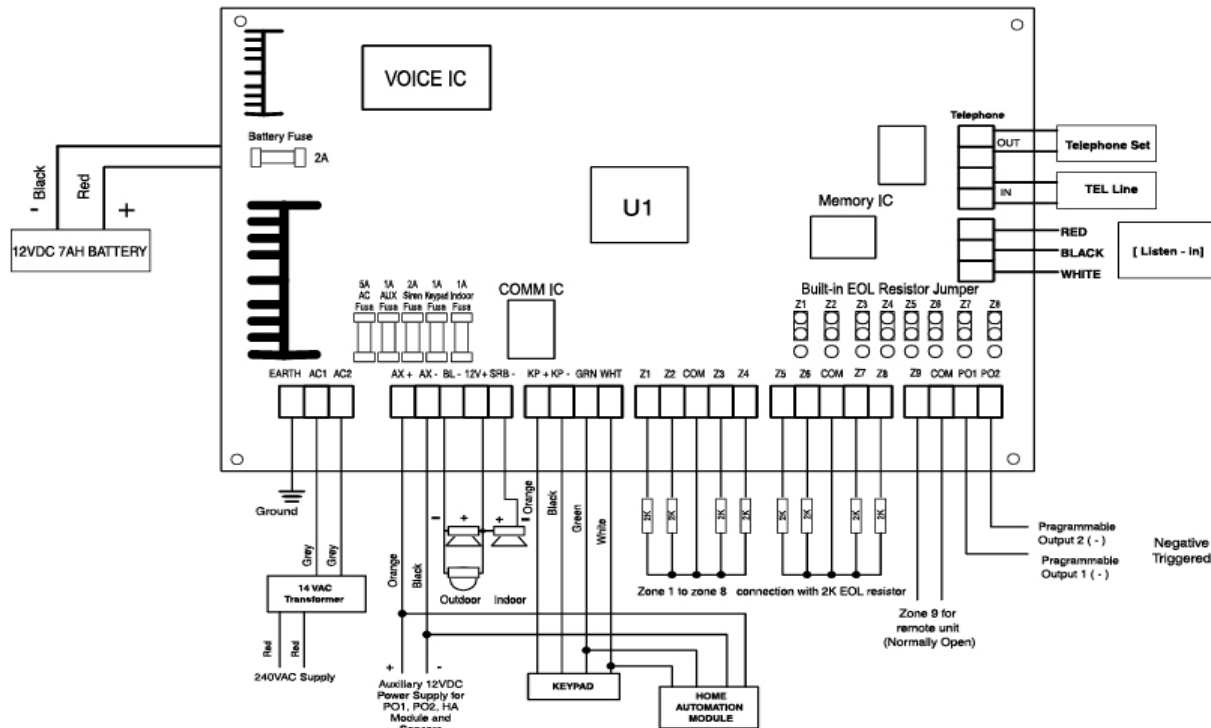


ID SETTING	Keypad 1	Keypad 2	Keypad 3	Keypad 4
ADD 2				
ADD 1				



MINI JUMPER

SYSTEM WIRING DIAGRAM



NO.	SYMBOL	DESCRIPTION
1	E	System earth point.
2	AC1	Connect to transformer Output (Grey).
3	AC2	Connect to transformer Output (Grey).
4	AX+	(+) 12VDC for detector and expander board.
5	AX-	(-) 12VDC for detector and expander board.
6	BL-	(-) 12VDC outdoor siren and strobe light.
7	12V	(+) 12VDC for siren and strobe light.
8	SRB-	(-) 12VDC for in door siren
9	KP+	(+) 12VDC for keypad.
10	KP-	(-) 12VDC for keypad.
11	GRN	Keypad and expander board communication bus.
12	WHT	Keypad and expander board communication bus.
13	Z1	Security zone 1.
14	Z2	Security zone 2.
15	COM	Zone negative terminal.
16	Z3	Security zone 3.
17	Z4	Security zone 4.

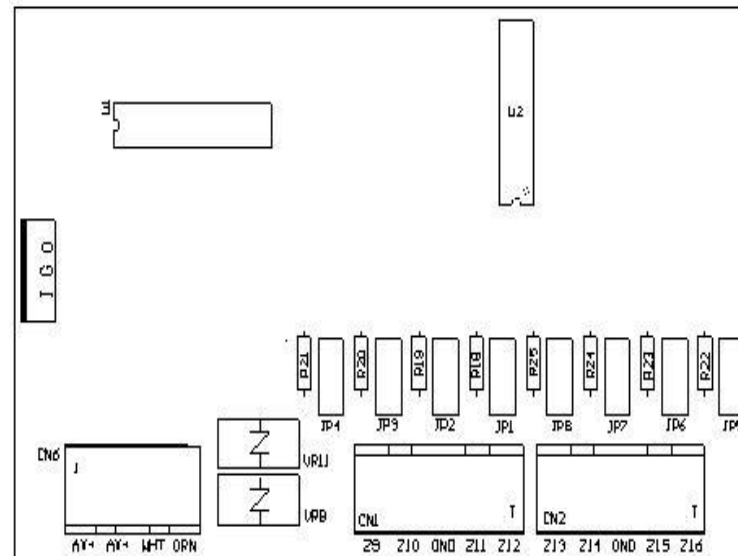
NO.	SYMBOL	DESCRIPTION
18	Z5	Security zone 5.
19	Z6	Security zone 6.
20	COM	Zone negative terminal.
21	Z7	Security zone 7.
22	Z8	Security zone 8.
23	Z9	Remote control Arm/Disarm.
24	COM	Zone negative terminal.
25	PO1	PGM output 1 (-) 12VDC - Exit delay or Arm/Disarm.
26	PO2	PGM output 2 (-) 12VDC - EM lock or Alarm triggered.
LISTEN IN		
27	WHT	Listen in control line.
28	BLK	(-) 12VDC for listen in module.
29	RED	(+) 12VDC for listen in module.
TELEPHONY		
30	TEL IN 1	Incoming telephone line.
31	TEL IN 2	Incoming telephone line.
32	TEL OUT 1	Outgoing line to telephone set.
33	TEL OUT 2	Outgoing line to telephone set.

Built-in EOL Resistor Jumper

	Required external EOL resistor - suitable for both NC or No wiring connection		Built-in EOL resistor - suitable for NC wiring connection only
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V16 Plus Zone Expander Wiring Diagram



**CONNECT TO
V16 Plus
MAIN BOARD**

AX + (ORANGE)

AX -- (BLACK)

WHT (WHITE)

GRN (GREEN)

ZONE JUMPER (JP) SETTING



External EOL resistor
Suitable for NC or NO wiring connection.



Built-in EOL resistor (default setting)
Suitable for NC wiring connection only.

***Note:**

1. Zones on Main board are started from Z1 to Z8; the zone 9 (Z9) on Main board is dedicated for remote arm/disarm only.
2. Zones on Zone Expander Module are started from Z9 to Z16.