Ultra-8
Control Panel

Quick Reference Guide

TO SUIT PANEL VERSION 8.72 +

This book is intended as a Reference Guide and a full Installation Manual may be needed for detailed instructions

ADC
Advanced Digital Controls

CP108-QR-V2.4

Auckland, New Zealand

www.adcnz.com

Document Part Number: CP108-QR-2.4& AS208-IM-1.1

This document is provided to suit the **Ultra-8** Control Panel (CP108)

Firmware Version: 8.72+

Table of Contents

Programming

- ACCESS TO INSTALLER PROGRAM MODE

To enter installer mode Press: **PRG + 1234 + ENTER** 1234 is the default Installer Code

You will hear 3 short beeps if OK or 1 long beep if there is an Error, NOTE: the panel must not be in alarm

The PRG Button will flash very fast

You are now in Installer Program Mode. Any program addresses may be viewed or changed in this mode.

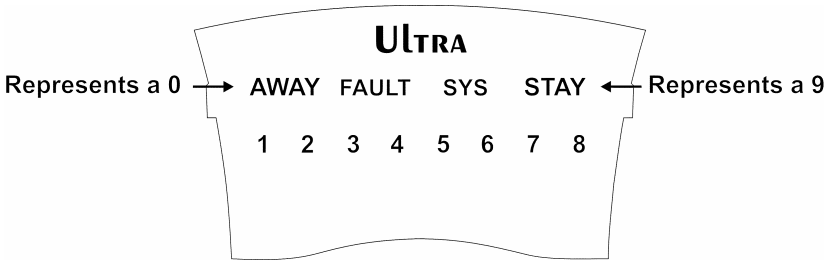
- TO GO TO A SPECIFIC LOCATION

A location is made up of a 1,2 or 3 digit address.

To go to a location press: **PRG + 170 + ENTER** e.g. Miscellaneous Options

The data will be displayed or played backed via the LED's

You may now enter in data followed by the **ENTER** key, depending on the location, it will replay back to you.



NOTE: Putting the panel into installer mode will stop the sirens from sounding.

- TO EXIT INSTALLER PROGRAM MODE

To exit installer mode Press: **PRG + ENTER**

- ACCESS TO CLIENT PROGRAM MODE

To enter client program mode Press: **PRG + 2580 + ENTER** 2580 is the default Master Code

The PRG Button will flash slowly

You are now in Client Program Mode. Only User Codes 1-10 can be viewed or changed in this mode. Codes may be denied access to Client mode, allowed access to change their code only or allowed access to view & change all user codes.

To exit client program mode Press: **PRG + ENTER**

- RESETTING BACK TO FACTORY DEFAULT SETTINGS (From Installer Mode Only)

This address allows you to reset the panel back to the factory defaults (Reset All defaults).

To reset All System defaults including User Codes Press:

PRG + 620 + ENTER

3 beeps will be heard to confirm the panel has been defaulted.

After the system configuration has been reset back to defaults, all values, options & Codes will be set to the values shown in the Program Option Summary as defaults. These value & option selections have been chosen as the most common set-up for the majority of systems.

Inputs

Zone Inputs

The Ultra-8 had five separate programmable monitored analogue inputs. Each input must be terminated with the appropriate value or combination of end-of-line resistors, even if the input is not used

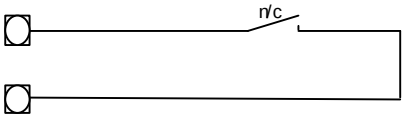
Each of the 4 Zone inputs can be assigned one of the following configuration options:

Type 1 (4Z) Short Circuit Input, No end-of-line (EOL)
Type 2 (4Z) Single end-of-line with no tamper input using 2K2 resistors
Type 3 (8Z) Double end-of-line using 4K7, 8K2 resistors and no tampers
Type 4 (8Z) Double-end-of-line with open & short circuit tampers

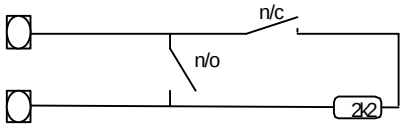
The following table shows end-of-line resistor configurations

Zone Type	Low Zone Resistor	Hi Zone Resistor	Tamper End-of-line
Type 1(4 Zone) LEDS 1-4 off, 5-8 off	N/A (Short circuit)	N/A	N/A
Type 2(4 Zone) LEDS 1-4 on, 5-8 off	2k2	-	-
Type 3(8 Zone) LEDS 1-4 off, 5-8 on	4k7	8k2	N/A
Type 4(8 Zone) LEDS 1-4 on, 5-8 on	4k7	8k2	2k2

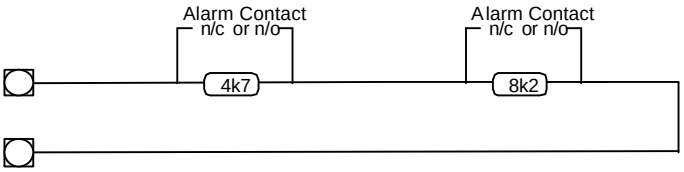
Type 1 (4 Zones,Short Circuit)



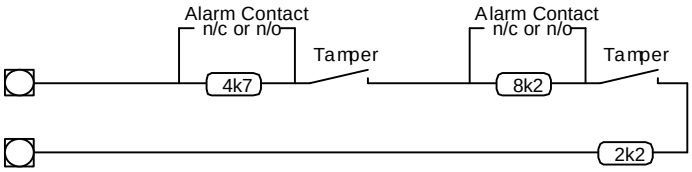
Type 2 (4 Zones, 2k2 EOL no tamper)



Type 3 (8 Zones, 4k7 & 8k2 EOL with NO tamper)

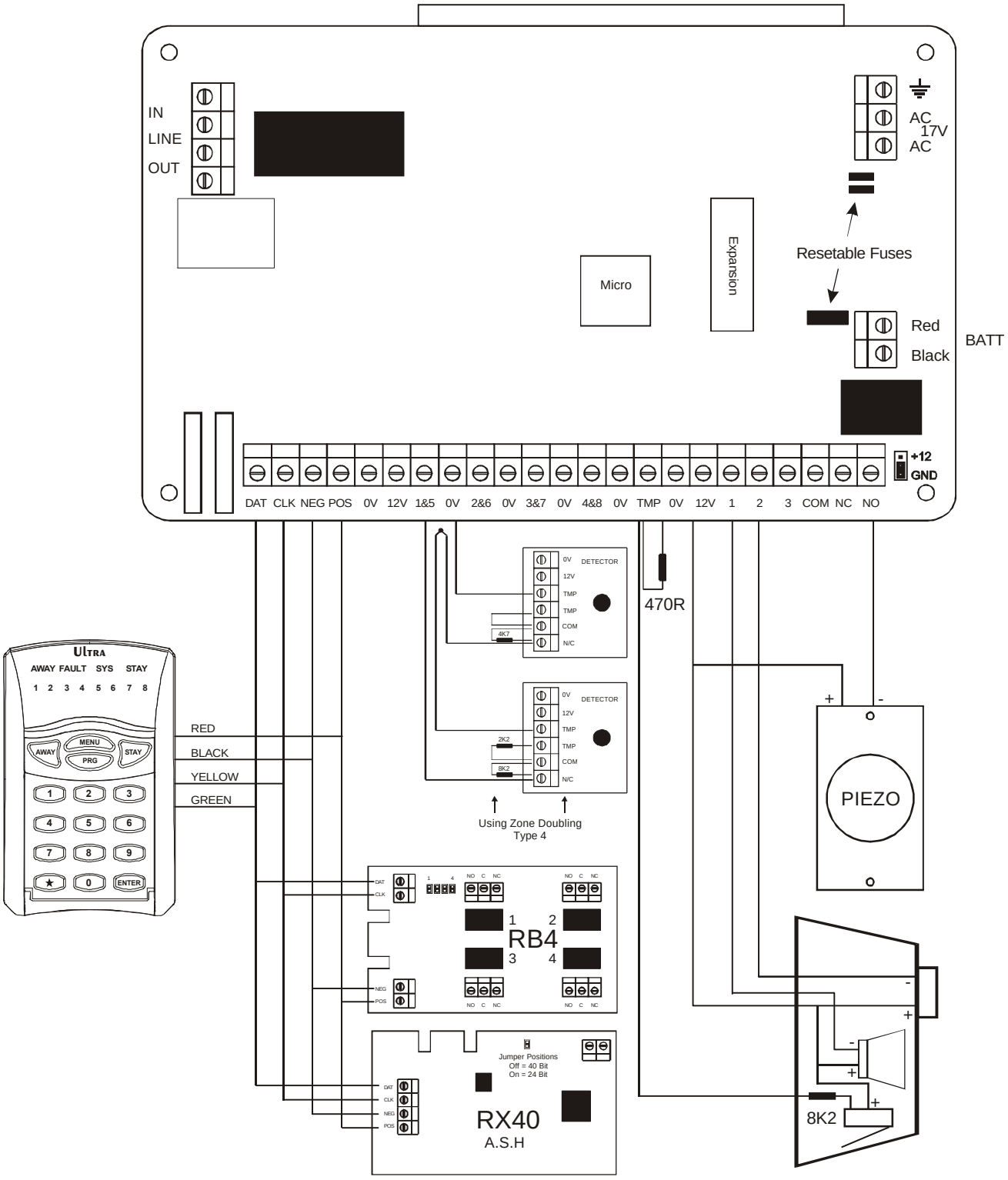


Type 4 (8 Zones, 4k7 & 8k2 EOL with 2k2 EOL for tamper)



Resistor Value	Colour Coding	Purpose
2K2Ω	Red, Red, Red, Gold	For single EOL zones or tampers
4K7Ω	Yellow, Violet, Red, Gold	Zones 1-4 on dual EOL
8K2Ω	Silver, Red, Red, Gold	Zones 5-6 on dual EOL
470Ω	Yellow, Violet, Brown, Gold	Tamper circuit on 4 wire siren

Ultra-8 Wiring Diagram



The AS208 keypad is wired to the **Ultra-8** using 4 core 0.22mm non-shielded cable

When using a lamp (not a strobe) for Output 2, enable option 2 in P32 to make it flash. The pulse time is already set to 0.2 seconds in P222.

Fault Analysis

The **FAULT** LED will only flash when there is a tamper or panic alarm. A steady **FAULT** LED indicates that the tamper input(s) are not sealed.

The **SYS** LED will flash when there is a current system fault. A steady or no **SYS** LED indicates the fault has gone

To view the current system faults press the **MENU + 6** buttons.
This mode will display any current system fault as per the table below for 5 seconds

LED # 1	Low Battery	LED # 5	Wireless Keyfob Low Battery
LED # 2	Mains Failure	LED # 6	Supervised Detector Failure
LED # 3	Telephone Line Failure	LED # 7	Zone Inactivity Timeout
LED # 4	Wireless Detector Low Battery	LED # 8	Dialler Kiss-off Failure

Event Memory Playback Mode

This event memory is displayed via the keypad with the most recent event shown first and subsequent events following in descending order from newest to oldest. Each event is separated by a beep tone. There are a number of events which are stored in memory which do not have a specific indicator associated with them such as Panic and Duress. Other events such as tampers and low battery are shared across many devices. For this reason the following table has been created. This table details which indicator lights correspond to which events in memory.

To view **EVENT MEMORY PLAYBACK MODE** press **MENU + 1** buttons

The last 127 events will be played back on the keypad LED's displayed sequentially at 2 second intervals from the most recent event backwards. To get to a specific event rapidly press the ★ button repeatedly and the memory display will be sped up accordingly
To exit memory mode press the **ENTER** button

EVENT TYPE	DEVICE	INDICATOR	STATUS
Activation	Zones 1-8	LED's 1-8	On Steady
Exclude	Zones 1-8	AWAY LED LED's 1-8	Flashes Fast On Steady
Detector Tamper (Short Circuit)	Zones 1-4	FAULT LED's 1-4	Flashing On Steady
Detector Tamper (Open Circuit)	Zones 5-8	FAULT LED's 5-8	Flashing On Steady
Cabinet Tamper	Cabinet or Satellite	FAULT	Flashing
Low Battery	Control Panels Battery	SYS LED 1	On Steady On Steady
Mains Failure	Control Panels Mains Supply	SYS LED 2	On Steady On Steady
Wireless Zone Low Battery	Wireless Detectors Zone 1-8	LED's 1-8	Flashing
Wireless Keyfob Low Battery	Wireless Keyfob User 1-8	FAULT LED's 1-8	On Steady Flashing
Panic (Buttons 1 & 3 Pressed Together)	Keypad Panic	SYS	Flashing
Fire Alarm (Buttons 4 & 6 Pressed Together)	Keypad Fire	SYS AWAY	Flashing Flashing
Medical Alarm (Buttons 7 & 9 Pressed Together)	Keypad Medical	SYS STAY	Flashing Flashing
Wireless Keyfob Panic	Wireless Keyfob User 1-8	SYS LED 1-8	Flashing Flashing
Armed In Away Mode	Panel is Armed	AWAY	On Steady
Armed In Stay Mode	Panel is in STAY mode	STAY	On Steady
Keypad Duress Alarm	Duress Alarm	FAULT AWAY & STAY	On Steady Flashing
Supervised Wireless Alarm	Supervised Wireless Detector	SYS FAULT LED's 1-8	On Steady Flashing Flashing
Zone Inactivity	Zones 1-8	AWAY FAULT LED's 1-8	Flashing Fast On Steady On Steady
Telephone Line Failure	Phone Line Failure	FAULT LED 3	On Steady On Steady

User Codes

User Codes

Mastercode Location # 1	P1E	2	5	8	0			Can be 1-6 digits
User Location # 2	P2E							Can be 1-6 digits
User Location # 3	P3E							Can be 1-6 digits
User Location # 4	P4E							Can be 1-6 digits
User Location # 5	P5E							Can be 1-6 digits
User Location # 6	P6E							Can be 1-6 digits
User Location # 7	P7E							Can be 1-6 digits
User Location # 8	P8E							Can be 1-6 digits
User Location # 9	P9E							Can be 1-6 digits
User Location # 10	P10E							Can be 1-6 digits

User Options

		1	2	3	4	5	6	7	8	Options
User # 1	P21E	●	●	●	●	●	●	●	●	1 = Area A
User # 2	P22E	●	●	●	●	●	●			2 = Area B
User # 3	P23E	●	●	●	●	●	●			3 = Arm - Away
User # 4	P24E	●	●	●	●	●	●			4 = Disarm - Away
User # 5	P25E	●	●	●	●	●	●			5 = Stay mode on
User # 6	P26E	●	●	●	●	●	●			6 = Stay mode off
User # 7	P27E	●	●	●	●	●	●			7 = User can change their code
User # 8	P28E	●	●	●	●	●	●			8 = User can change all codes
User # 9	P29E	●	●	●	●	●	●			
User # 10	P30E	●	●	●	●	●	●			

Installer Code

Installer Code	P11E	1	2	3	4			Must be 3-6 digits

Hold Up Duress Digit

Hold Up Duress Digit	P230E	0	1-9 (0=Disable) Digit is in front of code

Zones

EOL & Zone Doubling Options

		1	2	3	4	5	6	7	8
Single EOL or Zone Doubling	P130E	●	●	●	●				

See Page 2 for more information on Zones

4 Zone with 2k2 EOL

Type	Zone Doubling Option	Programming LED's
1	Short Circuit (no resistor), 4 Zones	LED's 1-8 OFF
2	2K2 EOL resistors, 4 Zones (default)	LED's 1-4 ON, 5-8 OFF
3	Dual EOL, 4K7 & 8K2 resistors, 8 zones	LED's 1-4 OFF, 5-8 ON
4	Dual EOL, 4K7 & 8K2 resistors plus 2K2 tampers, 8Zones	LED's 1-8 ON

Zone Options

		ZONES							
		1	2	3	4	5	6	7	8
24 Hr Fire Zone	P129E								
Area A Zones	P131E	●	●	●	●	●	●	●	●
Area B Zones	P132E								
Zone NC or NO	P133E								
Wireless Zone	P134E								
Manual Exclude Zone	P135E	●	●	●	●	●	●	●	●
Auto Exclude Zone	P136E	●	●	●	●	●	●	●	●
Handover Zone	P137E		●						
Two Trigger Zone	P138E								
Stay Mode Zone	P139E	●							
24 Hr Zone	P140E								
24 Hr Zone Non-Latch	P141E								
Lockout Zone	P142E								
Day Zone	P143E								
Permanent Day Zone	P144E								
Arm if not Sealed	P145E	●	●	●	●	●	●	●	●
Report Excludes to Dialler	P146E	●	●	●	●	●	●	●	●
Multiple Alarms to Dialler	P147E	●	●	●	●	●	●	●	●
Report Zone Tampers to Dialler	P148E	●	●	●	●	●	●	●	●
Zones report to Area B Account	P149E								
Zones with Inactivity Timer	P150E								

N/C = Off, N/O = On

An entry time must be programmed, P301E-P308E

Zones enabled are included

Option 4 at P170E must be on

Time period set at P240E in Hours

A Zone will become a Delay Zone only when an entry time is entered below. This also applies to Handover Zones

Entry Delays

Zone 1 Entry Delay Time	P301E	20
Zone 2 Entry Delay Time	P302E	0
Zone 3 Entry Delay Time	P303E	0
Zone 4 Entry Delay Time	P304E	0
Zone 5 Entry Delay Time	P305E	0
Zone 6 Entry Delay Time	P306E	0
Zone 7 Entry Delay Time	P307E	0
Zone 8 Entry Delay Time	P308E	0

0-9999 Seconds

Exit Delays

Area A Exit Delay	P219E	60
Area B Exit Delay	P220E	60

0-255 Seconds

Miscellaneous Options 1

Two Trigger Timer

Two Trigger Timer	**P229E**	60

0-255 Seconds

Inactivity Timer

Zone Inactivity Timer	**P240E**	120

0-255 Hours

Miscellaneous Panel Options

		1	2	3
Miscellaneous Panel Options # 1	**P169E**			●

Option 1 only works on AS200 series keypads

Options

1 = Keypad LEDS are off at the end of exit time

2 = Reserved

3 = Installer has direct access to Program Mode

		1	2	3	4	5	6	7	8
Miscellaneous Panel Options # 2	**P170E**	●			●				

Options

1 = Panel Tamper N/C=Off or EOL=On

2 = Installer Lockout

3 = Disable Mains Fail Test

4 = Arm only if Zones are Sealed

5 = No k/p beep on supervised Radio Fault

6 = No keypad beep on Zone Inactivity

7 = MENU + 5 Button disables Day Alarm Zones

8 = No keypad beep on Silent 24 Hr Zone

Output Options 1

AWAY Zones In Alarm

		1	2	3	4	5	6	7	8	Options
Output # 1 (default for Horn Speaker)	**P51E**	●	●	●	●	●	●	●	●	1-8 = Normal Zone Alarms
Output # 2 (default for Light/Strobe)	**P52E**	●	●	●	●	●	●	●	●	1-8 = Normal Zone Alarms
Output # 3 (default for Smoke Reset)	**P53E**									1-8 = Normal Zone Alarms
Output # 4 (default for Piezo)	**P54E**	●	●	●	●	●	●	●	●	1-8 = Normal Zone Alarms
Output # 5	**P55E**	●	●	●	●	●	●	●	●	1-8 = Normal Zone Alarms
Output # 6	**P56E**	●	●	●	●	●	●	●	●	1-8 = Normal Zone Alarms
Output # 7	**P57E**	●	●	●	●	●	●	●	●	1-8 = Normal Zone Alarms
Output # 8	**P58E**	●	●	●	●	●	●	●	●	1-8 = Normal Zone Alarms

STAY Zones in Alarm

		1	2	3	4	5	6	7	8	Options
Output # 1 (default for Horn Speaker)	**P61E**	●	●	●	●	●	●	●	●	1-8 = Stay Zone Alarms
Output # 2 (default for Light/Strobe)	**P62E**	●	●	●	●	●	●	●	●	1-8 = Stay Zone Alarms
Output # 3 (default for Smoke Reset)	**P63E**									1-8 = Stay Zone Alarms
Output # 4 (default for Piezo)	**P64E**	●	●	●	●	●	●	●	●	1-8 = Stay Zone Alarms
Output # 5	**P65E**									1-8 = Stay Zone Alarms
Output # 6	**P66E**									1-8 = Stay Zone Alarms
Output # 7	**P67E**									1-8 = Stay Zone Alarms
Output # 8	**P68E**									1-8 = Stay Zone Alarms

24 Hr Zones In Alarm

		1	2	3	4	5	6	7	8	Options
Output # 1 (default for Horn Speaker)	**P71E**	●	●	●	●	●	●	●	●	1-8 = 24 Hr Zone Alarms
Output # 2 (default for Light/Strobe)	**P72E**	●	●	●	●	●	●	●	●	1-8 = 24 Hr Zone Alarms
Output # 3 (default for Smoke Reset)	**P73E**									1-8 = 24 Hr Zone Alarms
Output # 4 (default for Piezo)	**P74E**	●	●	●	●	●	●	●	●	1-8 = 24 Hr Zone Alarms
Output # 5	**P75E**									1-8 = 24 Hr Zone Alarms
Output # 6	**P76E**									1-8 = 24 Hr Zone Alarms
Output # 7	**P77E**									1-8 = 24 Hr Zone Alarms
Output # 8	**P78E**									1-8 = 24 Hr Zone Alarms

Tamper Zones In Alarm

		1	2	3	4	5	6	7	8	Options
Output # 1 (default for Horn Speaker)	**P91E**	●	●	●	●	●	●	●	●	1-8 = Zone Tamper
Output # 2 (default for Light/Strobe)	**P92E**	●	●	●	●	●	●	●	●	1-8 = Zone Tamper
Output # 3 (default for Smoke Reset)	**P93E**									1-8 = Zone Tamper
Output # 4 (default for Piezo)	**P94E**	●	●	●	●	●	●	●	●	1-8 = Zone Tamper
Output # 5	**P95E**	●	●	●	●	●	●	●	●	1-8 = Zone Tamper
Output # 6	**P96E**	●	●	●	●	●	●	●	●	1-8 = Zone Tamper
Output # 7	**P97E**	●	●	●	●	●	●	●	●	1-8 = Zone Tamper
Output # 8	**P98E**	●	●	●	●	●	●	●	●	1-8 = Zone Tamper

Output Options 2

Day Zones to Outputs

		1	2	3	4	5	6	7	8	Options
Output # 1 (default for Horn Speaker)	P81E									1-8 = Day Zones
Output # 2 (default for Light/Strobe)	P82E									1-8 = Day Zones
Output # 3 (default for Smoke Reset)	P83E									1-8 = Day Zones
Output # 4 (default for Piezo)	P84E									1-8 = Day Zones
Output # 5	P85E									1-8 = Day Zones
Output # 6	P86E									1-8 = Day Zones
Output # 7	P87E									1-8 = Day Zones
Output # 8	P88E									1-8 = Day Zones

Output 1 Day Mode Time	P211E	20	0-99 (0.1 Sec) 20=2 sec
Output 2 Day Mode Time	P212E	20	0-99 (0.1 Sec) 20=2 sec
Output 3 Day Mode Time	P213E	20	0-99 (0.1 Sec) 20=2 sec
Output 4 Day Mode Time	P214E	20	0-99 (0.1 Sec) 20=2 sec
Output 5 Day Mode Time	P215E	20	0-99 (0.1 Sec) 20=2 sec
Output 6 Day Mode Time	P216E	20	0-99 (0.1 Sec) 20=2 sec
Output 7 Day Mode Time	P217E	20	0-99 (0.1 Sec) 20=2 sec
Output 8 Day Mode Time	P218E	20	0-99 (0.1 Sec) 20=2 sec

Panic, Duress & System Faults In Alarm

		1	2	3	4	5	6	7	8	Options
Output # 1 (default for Horn Speaker)	P41E	●	●	●	●	●				1 = Keyfob Panic
Output # 2 (default for Light/Strobe)	P42E	●	●	●	●	●				2 = Keypad Panic
Output # 3 (default for Smoke Reset)	P43E									3 = Keypad Fire
Output # 4 (default for Piezo)	P44E	●	●	●	●	●				4 = Keypad Medical
Output # 5	P45E	●	●	●	●	●				5 = System Tamper
Output # 6	P46E	●	●	●	●	●				6 = Duress Alarm
Output # 7	P47E	●	●	●	●	●				7 = Mains Fail
Output # 8	P48E	●	●	●	●	●				8 = Low Battery

Output Options

		1	2	3	4	5	6	7	8	Options
Output # 1 (default for Horn Speaker)	P31E					●				1 = Invert Output
Output # 2 (default for Light/Strobe)	P32E									2 = Flash Output
Output # 3 (default for Smoke Reset)	P33E	●								3 = Single Pulse to Output
Output # 4 (default for Piezo)	P34E									4 = Lockout Output
Output # 5	P35E									5 = Siren Driver
Output # 6	P36E									6 = Operated by MENU 5 command
Output # 7	P37E									7 = Flashes on 24 Hr Alarm
Output # 8	P38E									8 = Day zones linked to Pulse Timer

When using a lamp (not a strobe) for Output 2, enable option 2 in P32 to make it flash. The pulse time is set to 0.2 seconds in P222.

Output Timing

Output Timing

	Pulse Time		Reset Time		Delay On Time	
Output # 1 (default for Horn Speaker)	**P221E**	1	**P311E**	300	**P201E**	0
Output # 2 (default for Light/Strobe)	**P222E**	2	**P312E**	9999	**P202E**	0
Output # 3 (default for Smoke Reset)	**P223E**	30	**P313E**	0	**P203E**	0
Output # 4 (default for Piezo)	**P224E**	20	**P314E**	600	**P204E**	0
Output 5	**P225E**	20	**P315E**	0	**P205E**	0
Output 6	**P226E**	20	**P316E**	0	**P206E**	0
Output 7	**P227E**	20	**P317E**	0	**P207E**	0
Output 8	**P228E**	20	**P318E**	0	**P208E**	0
	0.1 Sec		Seconds		Seconds	

Day Mode to Keypad Buzzer Timer

Area A Day Zone beep to K/pd	**P209E**	20
Area B Day Zone beep to K/pd	**P210E**	20

0-99 (0.1 Sec) 20=2 sec

0-99 (0.1 Sec) 20=2 sec

Temporary Output Disable

This allows the Technician to temporarily disable any of the selected outputs for one alarm or armed cycle. eg. By turning on LEDs 1 & 2 at P109E then leaving program mode, outputs 1 & 2 will not activate following any alarms. The Technician now can test monitoring signals without the sirens activating. When the alarm is reset or disarmed, all outputs will be back to a normal mode of operation.

		1	2	3	4	5	6	7	8
Output Disable	**P109E**								

Disabled for one alarm or arm cycle

Keypad Options

Area Options

		1	2	3	4	5	6	7	8
Area A Options	P110E				●	●	●		
Area B Options	P120E				●	●	●		
Stay Button Disarms Stay Mode	P180E	●	●	●	●	●	●	●	●

Options

1 = Press Arm then code to Arm

2 = Press Stay then code to Arm in Stay

3 = Code required to Arm

4 = Arm can Disarm during Exit Delay

5 = Stay can Disarm anytime in Stay Mode

6 = No exit beeps to Keypads in Stay mode

7 = Enable Keyswitch

8 = Keyswitch Mode (On = Momentary, Off = Latch)

Day Mode to Keypad Buzzer Timer

Area A Day Zone beep to K/pd	P209E	20
Area B Day Zone beep to K/pd	P210E	20

0-99 (0.1 Sec) 20=2 sec

0-99 (0.1 Sec) 20=2 sec

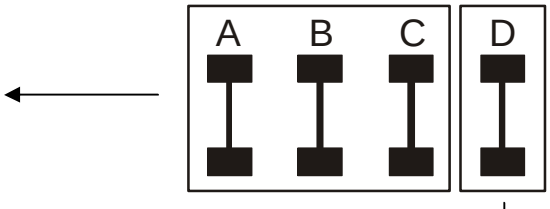
Keypad Area Assignment

		Keypads							
		1	2	3	4	5	6	7	8
Assigned to Area A	P171E	●	●	●	●	●	●	●	●
Assigned to Area B	P172E								

Keypad Emergency Option

		Keypads							
		1	2	3	4	5	6	7	8
Hold Down * Button Panic Enabled	P173E	●	●	●	●	●	●	●	●
1 & 3 Panic Function Enabled	P174E	●	●	●	●	●	●	●	●
Panic beep Enabled	P175E	●	●	●	●	●	●	●	●
4 & 6 Fire Function Enabled	P176E	●	●	●	●	●	●	●	●
Fire beep Enabled	P177E	●	●	●	●	●	●	●	●
7 & 9 Medical Function Enabled	P178E	●	●	●	●	●	●	●	●
Medical beep Enabled	P179E	●	●	●	●	●	●	●	●

Keypad Address	Address Links			
#	A	B	C	D
1				
2	✂			
3		✂		
4	✂	✂		
5			✂	
6	✂		✂	
7		✂	✂	
8	✂	✂	✂	



Partition Mode	Address Links			
#	A	B	C	D
Area 1	✠	✠	✠	
Area 2	✠	✠	✠	✂
Dual Partition*	-	-	-	✂

Keyfob Options 1

Learning Keyfobs

Learning Keyfob # 1	P611E	Press Button On Keyfob To Learn	Refer to P151E for Keyfob Options
Learning Keyfob # 2	P612E	Press Button On Keyfob To Learn	Refer to P152E for Keyfob Options
Learning Keyfob # 3	P613E	Press Button On Keyfob To Learn	Refer to P153E for Keyfob Options
Learning Keyfob # 4	P614E	Press Button On Keyfob To Learn	Refer to P154E for Keyfob Options
Learning Keyfob # 5	P615E	Press Button On Keyfob To Learn	Refer to P155E for Keyfob Options
Learning Keyfob # 6	P616E	Press Button On Keyfob To Learn	Refer to P156E for Keyfob Options
Learning Keyfob # 7	P617E	Press Button On Keyfob To Learn	Refer to P157E for Keyfob Options
Learning Keyfob # 8	P618E	Press Button On Keyfob To Learn	Refer to P158E for Keyfob Options

For more information see page 47 of the Installation Manual (CP108-IM-2.1+) for enrolling wireless keyfobs

Keyfobs Options A

		1	2	3	4	5	6	7	8
Keyfob # 1 Options A	P151E	●		●	●				
Keyfob # 2 Options A	P152E	●				●	●		
Keyfob # 3 Options A	P153E	●		●	●				
Keyfob # 4 Options A	P154E	●				●	●		
Keyfob # 5 Options A	P155E	●		●	●				
Keyfob # 6 Options A	P156E	●				●	●		
Keyfob # 7 Options A	P157E	●		●	●				
Keyfob # 8 Options A	P158E	●				●	●		

Options

1 = Assigned to Area A

2 = Assigned to Area B

3 = Can Arm Area

4 = Can Disarm Area

5 = Can Arm Stay Mode

6 = Can Disarm Stay Mode

7 = Spare

8 = Disabled if panel is in Alarm

Keyfobs Options B

		1	2	3	4	5	6	7	8
Keyfob # 1 Options B	P161E					●		●	
Keyfob # 2 Options B	P162E					●		●	
Keyfob # 3 Options B	P163E					●		●	
Keyfob # 4 Options B	P164E					●		●	
Keyfob # 5 Options B	P165E					●		●	
Keyfob # 6 Options B	P166E					●		●	
Keyfob # 7 Options B	P167E					●		●	
Keyfob # 8 Options B	P168E					●		●	

Options

1 = Turn Output On

2 = Turn Output Off

3 = Visonic PowerCode Battery Low

4 = Spare

5 = Report Panic to Dialler

6 = Immediate Panic

7 = Delayed Panic (1.5 Sec)

8 = Spare

Keyfobs to Outputs

		1	2	3	4	5	6	7	8
Output # 1 (default for Horn Speaker)	P101E								
Output # 2 (default for Light/Strobe)	P102E								
Output # 3 (default for Smoke Reset)	P103E								
Output # 4 (default for Piezo)	P104E								
Output # 5	P105E								
Output # 6	P106E								
Output # 7	P107E								
Output # 8	P108E								

Options

1-8 = Keyfobs

To map a keyfob to an output please see the following page for more details

Keyfob Options 2

Area A – Speaker Beeps & Light Flashes

		1	2	3	4	5	6	7	8
Area A O/P 1 (default for Horn Speaker)	**P111E**								
Area A O/P 2 (default for Light/Strobe)	**P112E**				●	●	●		
Area A O/P 3 (default for Smoke Reset)	**P113E**							●	
Area A O/P 4 (default for Piezo)	**P114E**								
Area A O/P 5	**P115E**								
Area A O/P 6	**P116E**								
Area A O/P 7	**P117E**								
Area A O/P 8	**P118E**								

Options

1 = Arm Status

2 = Stay Mode Status

3 = Disarm Status

4 = Keyfob Chirps on Away Mode

5 = Keyfob Chirps on Stay Mode

6 = Keyfob Chirps on Disarm

7 = Pulse on Arming

8 = Pulse on Disarming

For Speaker Beeps to work simply enable options 4,5 & 6 in location P111 and P121.
In default state the light/strobe will flash when you ARM/DISARM the panel with Keyfobs. P112 & P122

Area B – Speaker Beeps & Light Flashes

		1	2	3	4	5	6	7	8
Area B O/P 1 (default for Horn Speaker)	**P121E**								
Area B O/P 2 (default for Light/Strobe)	**P122E**				●	●	●		
Area B O/P 3 (default for Smoke Reset)	**P123E**							●	
Area B O/P 4 (default for Piezo)	**P124E**								
Area B O/P 5	**P125E**								
Area B O/P 6	**P126E**								
Area B O/P 7	**P127E**								
Area B O/P 8	**P128E**								

Options

1 = Arm Status

2 = Stay Mode Status

3 = Disarm Status

4 = Keyfob Chirps on Arm

5 = Keyfob Chirps on Home Mode

6 = Keyfob Chirps on Disarm

7 = Pulse on Arming

8 = Pulse on Disarming

Keyfob To Output Timing

		Pulse Time	
Output # 1 (default for Horn Speaker)	**P221E**	1	This sets the Speaker to Beeps at 0.1 pulses
Output # 2 (default for Light/Strobe)	**P222E**	2	This sets the Light to flash at 0.2 pulses
Output # 3 (default for Smoke Reset)	**P223E**	30	
Output # 4 (default for Piezo)	**P224E**	20	
Output # 5	**P225E**	20	
Output # 6	**P226E**	20	
Output # 7	**P227E**	20	
Output # 8	**P228E**	20	
		0.1 Sec	

To map a keyfob to an output the following must be done,

e.g. Keyfob 2 will be mapped to output 3 to pulse for 1 second.

1. Enable keyfob 2 Option in location P103E
2. Disable options 5&6 in location P152E - this disables arming in stay mode
3. Enable options 1&2 in location P162E - this allows the key fob to turn on & off outputs
4. Disable option 1 in location P33E - this will cancel the invert option, used for fire
5. Enable option 3 in location P33E - this will pulse the output.
6. Disable option 7 in location P113E - this will pulse the output on arming.
7. Change location P223E to 10 by entering in 10 x 0.1 seconds = 1 second

Wireless Detectors

Enabling Wireless Zones

		ZONES							
		1	2	3	4	5	6	7	8
Radio Zone	**P134E**								

Enrolling Wireless Detectors

To enrol a wireless zone, first you must be in Installer mode and then key in the program location below, depending on which zone is being enrolled. ie, for zone 1, press P601E. After enter has been pressed, the keypad will start beeping until the transmission code (device must be made to transmit) is learnt by the panel. To remove a loaded wireless detector, enter the program location the code is in, ie, P601E and press Enter again.

For more information see page 48 & 49 of the Installation Manual (CP108-IM-2.1+) for enrolling Visonic FixedCode and Visonic PowerCode wireless detectors

Learning Wireless Detector for Zone 1	**P601E**	Assign P134E for Wireless Detector
Learning Wireless Detector for Zone 2	**P602E**	Assign P134E for Wireless Detector
Learning Wireless Detector for Zone 3	**P603E**	Assign P134E for Wireless Detector
Learning Wireless Detector for Zone 4	**P604E**	Assign P134E for Wireless Detector
Learning Wireless Detector for Zone 5	**P605E**	Assign P134E for Wireless Detector
Learning Wireless Detector for Zone 6	**P606E**	Assign P134E for Wireless Detector
Learning Wireless Detector for Zone 7	**P607E**	Assign P134E for Wireless Detector
Learning Wireless Detector for Zone 8	**P608E**	Assign P134E for Wireless Detector

Wireless Zone Detector Options

Wireless Zone # 1 Options	**P231E**	0	Options
Wireless Zone # 2 Options	**P232E**	0	1 = Crow AE PIR & Low Battery
Wireless Zone # 3 Options	**P233E**	0	2 = Crow AE Reed O/Close & Low Batt
Wireless Zone # 4 Options	**P234E**	0	3 = Crow Merlin PIR (no supervision)
Wireless Zone # 5 Options	**P235E**	0	4 = Crow Merlin PIR (with supervision)
Wireless Zone # 6 Options	**P236E**	0	31= Visonic FixedCode Transmitters
Wireless Zone # 7 Options	**P237E**	0	32= Visonic Powercode (supervised signal ignored)
Wireless Zone # 8 Options	**P238E**	0	33= Visonic Powercode (supervised signal active)

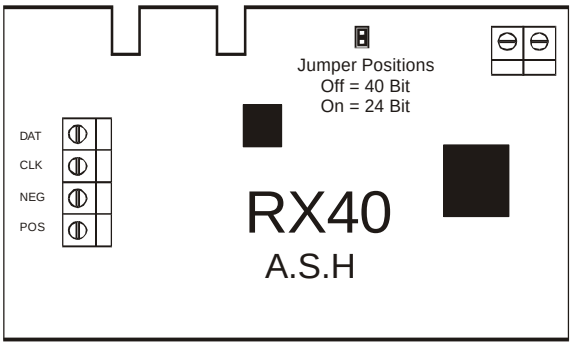
Wireless Zone Supervised Timer

Wireless Detector Supervised Timer	**P239E**	240	0-255 Minutes

Setting The RX40 Receiver Jumper

When using Visonic PowerCode Detectors the jumper must be in the OFF position.

You must also power down the receiver if changing this option



Dialler Options 1

Programming Telephone Numbers

Telephone # 1	P501E	1-16 Digits
Telephone # 2	P502E	1-16 Digits
Telephone # 3	P503E	1-16 Digits
Telephone # 4	P504E	1-16 Digits

LED KEYPAD BUTTON	LED KEYPAD INDICATION	4+2 FUNCTION	TELEPHONE NUMBER SPECIAL FUNCTION
0	AWAY (AREA 1)	0 or A	N/A
★	AWAY Flashes Fast	B	#
Menu 1	SYS	C	*
Menu 3	FAULT	D	2.5 sec Pause
AWAY	AWAY Flashes Fast SYS	E	Wait for 2nd Dial-tone
STAY	AWAY Flashes Fast FAULT	F	5 sec Pause

Reporting Options

Reporting Options Phone # 1	P241E	1
Reporting Options Phone # 2	P242E	1
Reporting Options Phone # 3	P243E	0
Reporting Options Phone # 4	P244E	0

Options
1 = Contact ID
2 = Domestic Dial
3 = Pager
4 = Speech Dialler

When using Domestic Dial or Speech Dialler Options you MUST remove the Monitor Call Progress option in locations 181 – 184

Max Retries Per Phone Number

Max Retries Phone # 1	P245E	6
Max Retries Phone # 2	P246E	6
Max Retries Phone # 3	P247E	6
Max Retries Phone # 4	P248E	6

0-99
0-99
0-99
0-99

Telephone Number Reporting Options

		1	2	3	4	5	6	7	8
Telephone # 1 Options	P181E	●	●	●		●	●		
Telephone # 2 Options	P182E	●	●	●		●	●		
Telephone # 3 Options	P183E	●	●	●		●	●		
Telephone # 4 Options	P184E	●	●	●		●	●		

Options
1 = Stop dialling if Kissed off
2 = Monitor Call progress
3 = Blind Dial
4 = Send separate account codes
5 = Send Restores
6 = Send Test Calls

Dialler Options 2

Test Report Time

Auto Test Report 24Hr / Min	**P402E**	0	0	0	0	0-2359

Test Report Day Of The Week

		1	2	3	4	5	6	7
Auto Test Report Day of Week	**P404E**	●						

Options
1 = Sunday, 2 = Monday, 3 = Tuesday, 4 = Wednesday, 5 = Thursday, 6 = Friday, 7 = Saturday

If no test reports are required disable all options in P404E. Do not disable Option 6 in location P181E – P184E.

Dialler Options

		1	2	3	4	5	6	7	8
Dialler Options	**P185E**	●						●	

Options
1 = Enable Dialler
2 = Fax Defeat
3 = Disable Phone line Monitoring
4 = DTMF or Pulse Dialling
5 = DTMF or Reverse Pulse Dialling
6 = Spare
7 = Auto Detect Modem Mode
8 = Bell 103 or V21, V21 is LED on

Security Access Code

Security Code	**P505E**									Up to 8 Numbers

Account Codes

Account Code for Area A	**P506E**	0	0	0	0	
Account Code for Area B	**P507E**	0	0	0	0	

Auto Answer Ring Count

Auto Answer Ring Count	**P249E**	25	0-99

For Fax Defeat to work, the auto answer ring count should NOT be set to "0".

Mains Fail Reporting Delay

Mains Fail Report Delay	**P319E**	3600	1 Hour	0-9999 Seconds

Dialler Reporting Options

		1	2	3	4	5	6	7	8
Dialler Options Set "A"	**P186E**	●	●	●	●	●	●	●	●

Options
1 = Report Duress Alarm
2 = Report Mains Fail
3 = Report Low Battery
4 = Report Radio Battery Low
5 = Report System Tamper
6 = Report Phone Line Failure
7 = Report Supervised Radio Fault
8 = Report Zone Inactivity Alarm

		1	2	3
Dialler Options Set "B"	**P187E**	●	●	●

Options
1 = Report Manual Panic Alarm
2 = Report Manual Fire Alarm
3 = Report Manual Medical Alarm

		1	2	3	4	5	6	7	8
Dialler Options Set "C"	**P188E**	●		●					

Options
1 = Report Arm / Disarm
2 = Report Stay Mode Arm / Disarm
3 = Report Disarm only after alarm
4 = Report Stay Mode Disarm after Alarm
5 = 24 Hour Alarms to Domestic/Voice Dial
6 = Send Arm Immediately
7 = Send Zone alarms in Stay Mode
8 = Spare

Option 3 is enabled in P188. This stops the ARM report from being sent to the base station and only sends the DISARM after an alarm. This option is designed to save on telephone calls. Remove this option for normal reporting

Contact ID Codes

Zone 1 Contact ID Code	**P321E**	130	3 Digit Number
Zone 2 Contact ID Code	**P322E**	130	3 Digit Number
Zone 3 Contact ID Code	**P323E**	130	3 Digit Number
Zone 4 Contact ID Code	**P324E**	130	3 Digit Number
Zone 5 Contact ID Code	**P325E**	130	3 Digit Number
Zone 6 Contact ID Code	**P326E**	130	3 Digit Number
Zone 7 Contact ID Code	**P327E**	130	3 Digit Number
Zone 8 Contact ID Code	**P328E**	130	3 Digit Number
Keypad Panic Alarm ID Code	**P329E**	120	1 & 3 Digit Press
Keypad Fire Alarm ID Code	**P330E**	110	4 & 6 Digit Press
Keypad Medical Alarm ID Code	**P331E**	100	7 & 9 Digit Press

Voice Board Mapping Options

Voice Message Programming

Zone 1 Voice Message #	P251E	1	Message 1-8
Zone 2 Voice Message #	P252E	1	Message 1-8
Zone 3 Voice Message #	P253E	1	Message 1-8
Zone 4 Voice Message #	P254E	1	Message 1-8
Zone 5 Voice Message #	P255E	1	Message 1-8
Zone 6 Voice Message #	P256E	1	Message 1-8
Zone 7 Voice Message #	P257E	1	Message 1-8
Zone 8 Voice Message #	P258E	1	Message 1-8
Panic Alarm voice message #	P259E	1	Message 9-12
Fire Alarm voice message #	P260E	1	Message 9-12
Med Alarm voice message #	P261E	1	Message 9-12
Low Battery voice message #	P262E	1	Message 9-12

DTMF Remote Control Codes

Remote Control Code Area A	P334E	0	0	0	0	4 Digit Code
Remote Control Code Area B	P335E	0	0	0	0	4 Digit Code
Remote Control Code Output Control	P336E	0	0	0	0	4 Digit Code
Remote Control Code Enable Mic I/P	P337E	0	0	0	0	4 Digit Code

DTMF Control

Start of DTMF Control Messages	P250E	0	0-99

Miscellaneous Options 2

Setting the Real Time Clock

The Real Time Clock is used to stamp Time & Date to all events in the Event buffer. The clock is programmed in 24 Hour format.

Real Time Hour / Minute	**P401E**	0	0 0 0	0-2359
Real Time Day of the Week	**P403E**	6		1-7 (1 = Sunday, 2 = Monday etc)
Real Time Clock Date	**P405E**	13		1-31 Days
Real Time Clock Month	**P406E**	10		1-12 Months
Real Time Clock Year	**P407E**	0		0-99

Daylight Saving Settings

This featured has been removed on Version 8.65+ and cannot be set

The Real time clock also has automatic preset adjustments for the start and finish of daylight saving. If daylight saving is active when programming the panel, program P414E,1E to tell the panel that daylight saving is now active.

			Options
Daylight Savings Start Sunday	**P408E**	1	0-5 (0=Disable Daylight Savings Start time)
Daylight Savings Start Month	**P409E**	10	1-12 Months
Daylight Savings Start Hour	**P410E**	2	0-23
Daylight Savings End Sunday	**P411E**	3	0-5 (0=Disable Daylight Savings End time)
Daylight Savings End Month	**P412E**	3	1-12 Months
Daylight Savings End Hour	**P413E**	2	0-23
Daylight Savings is Active	**P414E**	0	If Led # 1 is on, Daylight Savings is active

Installer Functions

Reset All Locations	**P620E**
Reset User Codes	**P621E**
Reset Locations 20-199	**P622E**
Reset Locations 200-399	**P623E**
Reset Locations 500-599	**P624E**
Reset Detector & Keyfob codes	**P625E**
Clear Alarm Event Memory	**P626E**

This option is used to enable walk test mode while in Installer mode. When this option is accessed (P627E), the keypad buzzer will beep every 1 second to indicate walk test is active. When each zone is triggered, the LED on the keypad will latch on for each zone to allow verification that all zones are working. To exit walk test mode, press the Program or Enter buttons.

Walk Test Mode	**P627E**

These options allow the panel to write/read to an external EPROM memory card that can be plugged into the expansion socket on the control board.

Write to EEPROM board	**P628E**
Read from EEPROM board	**P629E**

AS208 Keypad

New Features On The AS200 Keypad

- Hold Down functions on Keys 1-8 – Same as Menu functions
- Fault analysis showing eight current fault conditions
- Option to view steady SYS light
- Direct menu function to control Day Alarm
- Option to disable Keypad Lock mode.
- Option to invert Day Alarm “ON” indication
- Installer Mode timeout function
- Option to disable Installer Mode timeout function
- Zone LED’s will Zigzag when a special function is being used, i.e. Installer Mode, Day Alarm and Control function is being used.

Installer Mode Timeout

When the AS200 keypad is in installer mode and left alone for 2 minutes without any buttons being pressed it will come out of installer mode automatically.

To cancel the two minute timeout option, press the ★ button within two seconds after entering installer mode.
E.g. PRG + Installer Code + ENTER + ★

Menu 5 - Day Alarm ON/OFF

This command allows you to switch ON and OFF the Day Alarm by pressing the MENU + 5 buttons.

Menu 6 - Fault Analysis

This function will give you an eight point fault analysis of current system faults and display them from Zones 1-8 as per the table below

LED # 1	Low Battery	LED # 5	Wireless Keyfob Low Battery
LED # 2	Mains Failure	LED # 6	Supervised Detector Failure
LED # 3	Telephone Line Failure	LED # 7	Zone Inactivity Timeout
LED # 4	Wireless Detector Low Battery	LED # 8	Dialler Kiss-off Failure

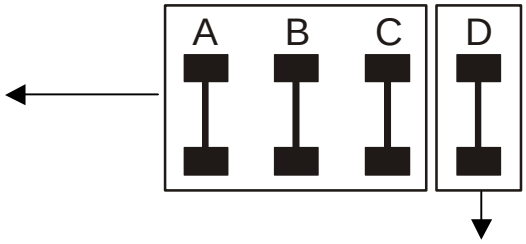
Programming

Setting the Keypad Address & Partition Mode

For AS208 Version Only

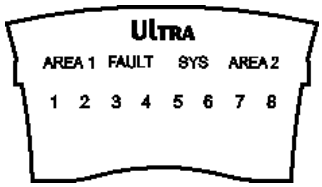
Each of the 8 possible LED keypads that can be connected to your **Ultra** panel must be addressed individually to avoid BUS conflicts when multiple users are operating different keypads simultaneously. As default, each keypad comes addressed as #1 with all links intact. Use the table to the below to determine which links to cut to assign the correct address to the keypads you are installing.

Keypad Address	Address Links			
#	A	B	C	D
1				
2	✂			
3		✂		
4	✂	✂		
5			✂	
6	✂		✂	
7		✂	✂	
8	✂	✂	✂	



Partition Mode	Address Links			
#	A	B	C	D
Area 1	✠	✠	✠	
Area 2	✠	✠	✠	✂
Dual Partition*	-	-	-	✂

✠ = Any tracks can be cut to get the desired keypad address
- = Do NOT cut any tracks
***** = This mode requires the PL8 or PL16 Dual Partition Lens



Keypad Address Changes Are Only Recognised At Power-Up. All Changes Should Be Made In The Powered Down State And Then On Power-Up The New Keypad Address Will Be Recognised By The Panel.

Programming Menu for AS208

MENU PRG 1	Not in Use
MENU PRG 2	Not in Use
MENU PRG 5	Keypad Options (This option works on a AS208)
MENU PRG 6	Not in Use
MENU PRG 7	Turn On LED's

1) MENU PRG Functions can only be accessed in Installer Mode.

2) The option key (e.g. 0-9) must be held down for 2 seconds to access the installer menu functions.

3) The changing of MENU PRG 5 options will work on all models but the AS208 model will not retain the data stored on total power loss.

MENU PRG – 5 Keypad Options

These options allow the installer to configure the keypad

Option	Description	Default
1	If enabled, Menu ★ function disabled	Off
2	If enabled, Steady SYS LED will NOT be shown	Off
3	If enabled, Invert the Day Alarm Indication	Off

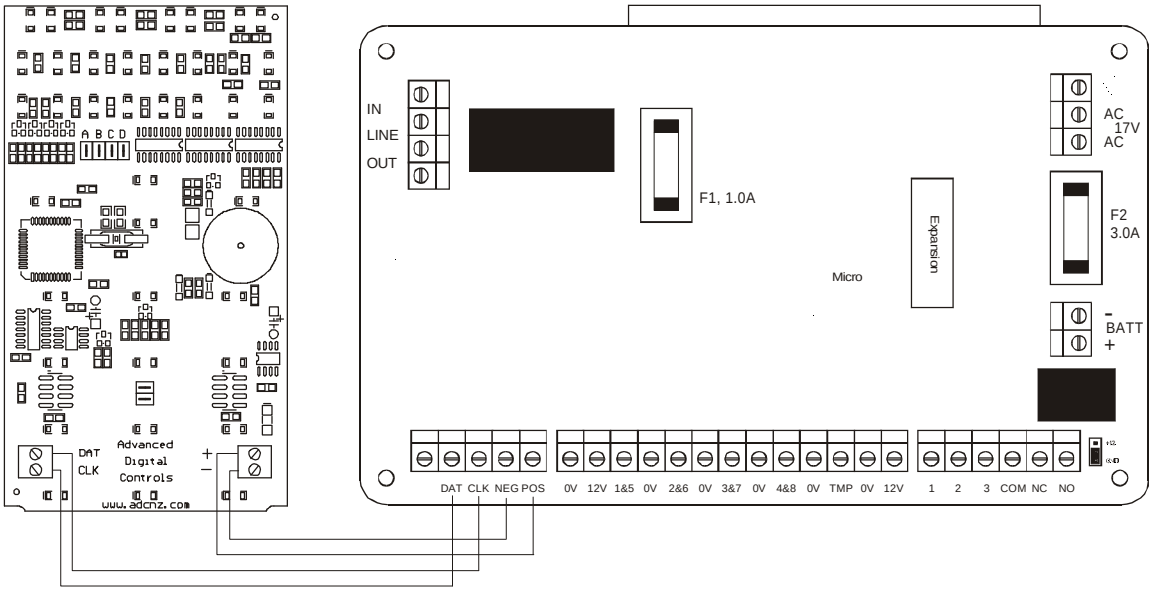
Please see **Ultra-8** Installation Manual (CP108-IM-2.1) for more information.

MENU PRG – 7 Test Keypad LED's

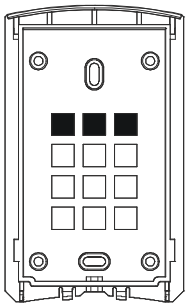
This option will turn on all LED's for 10 seconds.

WIRING THE AS200 KEYPAD

The AS200 keypad is wired to the **Ultra-8** using 4 core 0.22mm non-shielded cable up to 50m. Cable runs exceeding this distance may require 0.50mm cable. Some installations may require CAT5 data cable to ensure data integrity in noisy sites



AS200 KEYPAD MOUNTING INSTRUCTIONS

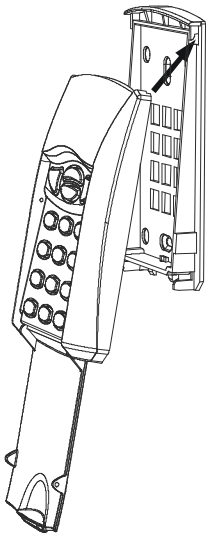


1) Remove the required cable knockouts to suit your job requirements
2) Mount the back plate on the wall

Only use counter sunk screws

3) Connect the cable as follows:

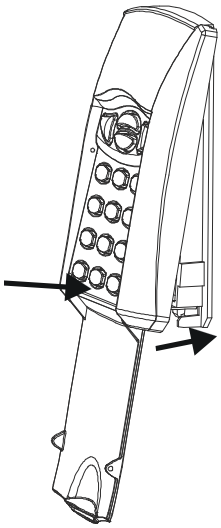
RED - Positive
YELLOW - CLK
GREEN - DAT
BLACK - Negative



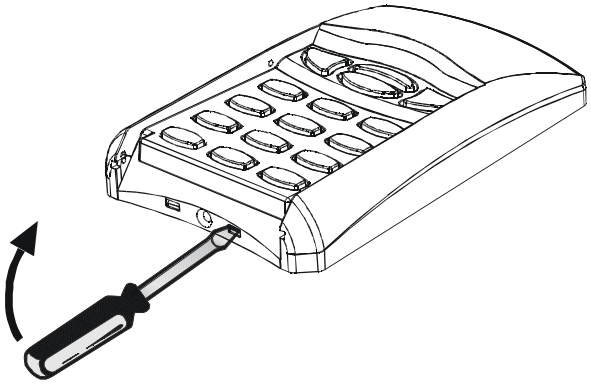
4) To secure the keypad on the back plate, guide the top of the keypad into the securing slots pushing the keypad up

5) Push on the front case just below the 0 key with the door open until you hear the clips click into place

Make sure that the power cable does not get between the silicon seal



OPENING THE AS200 KEYPAD



1)With a small flat blade screw driver insert the blade in the clip slot

2)Pull the screw driver towards you, away from the way allowing the front case to flex until it unclips

3)Repeat steps 1&2 on the second clip