Solution Ultima 880 Quick Reference Guide

ISSUE 1.51



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Quick Reference Guide

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Document Part Number MA488Q DOCUMENT ISSUE 1.51

This documentation is provided to suit the Salutian Ultima 880 control panels.

Firmware Revision 1.00 - 1.09

Hardware Revision A - J

Alarm Link required = 2.74 or higher

Control Panel Software Version 1.00 – 1.09 = S488_V10

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Introduction

Thank you for choosing the Solution control panel for your installation. We are sure that you will find this system extremely flexible, reliable and easy to use. The quick reference guide is supplied with the system to provide users with enough basic information to wire, configure and program the system. Due to the systems many programmable features and options, we suggest that you obtain the complete installation manual that provides detailed information on system options and functions and programming methods.

Programming

The programming options of the system are stored in a non-volatile EPROM. This memory will hold all information during a total power loss and can be changed as many times as required.

In general, the entire programming sequence will consist of entering a location number and then change the data as required.

Programming the system can be via the following methods:

- Codepad
- Hand Held Programmer
- Alarm Link Software

Programming Using A Codepad

The system needs to be disarmed (with no active alarm) to program the system. If there is an active alarm or the system is armed, enter the code for User 1 (Default = 2580) followed by the # key (User Code 1 is factory default as the Master Code).

To enter installer's programming mode, enter the installer code (Default = 1234) followed by the # key. Two beeps will be heard and both the STAY and AWAY indicators will flash simultaneously to indicate that you have entered programming mode. The codepad indicators will display the current data programmed in LOCATION 000 (First location of the Primary Telephone Number).

To move to another programming location, enter the location number followed by the # key. The data in the new location will now be displayed via the codepad indicators (eg. If you entered 34#, the system will jump you to LOCATION 034, the beginning of the Subscriber ID Number For Receiver 1).

To move to the next location, press the # key. This will step you to the next location. The data in the next location will now be displayed via the codepad indicators (eg. If you are currently positioned at LOCATION 034, pressing the # key will take you to LOCATION 035).

To step back one location, press the * key (eg. If you are currently positioned at LOCATION 35, pressing the * key will take you back to LOCATION 34).

To change data in the current location, enter the new value (0 - 15) followed by the * key. This will store the new data into the location and leave you at the same location (eg. If you enter the value 14*, both the Zone 4 indicator and the MAINS indicator will display to represent the new data value).

To move to the next location, press the # key. The data in the next location will now be displayed.

To exit Installer's Programming Mode, enter 960#. Two beeps will be heard and the STAY and AWAY indicators will no longer display. The system has now returned to the disarmed state and is now ready for use.

The table below is a quick guide to programming:

Enter Installer's Programming Mode	1234#
Exit Installer's Programming Mode	960#
Step To Next Location	#
Step Back One Location	*
Program New Data Into Location	Data + $*$ (Data = 0 – 15)
Jump To Another Location	Location No. + #

Codepad Indicators

Data Value	Zone 1 Indicator	Zone 2 Indicator	Zone 3 Indicator	Zone 4 Indicator	Zone 5 Indicator	Zone 6 Indicator	Zone 7 Indicator	Zone 8 Indicator	MAINS Indicator
0									
1	Х								
2		Х							
3			Х						
4				Х					
5					Х				
6						Х			
7							Х		
8								Х	
9	Х							Х	
10									Х
11	Х								Х
12		Х							Х
13			Х						Х
14				Х					Х
15					Х				Х

Programming Option Bits

You will notice option bits throughout the quick reference guide. This allows you to program any combination of the four different options in the one location by adding the options together. Programming a zero (0) will disable all four options.

Example

If at LOCATION 177 you only want options 1, 2 and 4, add the numbers together and the total is the number to be programmed. In this example, the number to be programmed is 7 (eg. 1 + 2 + 4 = 7).

Option	Description						
1	Dialler Reporting Functions Allowed						
2	Remote Arming Via Telephone Allowed						
4	Answering Machine Bypass Only When Armed						
8	Use Bell 103 For FSK Format (Disabled = CCITT V21)						

Installer's Programming Commands

These commands can only be used when you enter Installer's Programming Mode. Enter the command followed by the # key.

Command	Description
958	Enable/Disable Zone Status (Hand Held Programmer Required)
959	Test Programming Key
960	Exit Installer's Programming Mode
961	Default System Back To Factory Settings
962	Copy Panel Memory To Programming Key
963	Copy Programming Key To Panel Memory
964	Erase Programming Key
965	Default System For Domestic Dialling Format
966	Enable/Disable Automatic Stepping Of Locations When Programming
999	Display Software Version (Hand Held Programmer Required)

Arming The System (On)

AWAY Mode

 Press and hold the # key until two beeps are heard.

Or

2. Enter your code followed by the # key. [eg. 2580 + #].

STAY Mode 1

1. Press and hold the * key until two beeps are heard.

Or

2. Enter your code followed by the * key. [eg. 2580 + *].

STAY Mode 2

1. Press and hold the 0 key until two beeps are heard.

Arm All Areas In AWAY Mode

1. Enter your code followed by 0 and then the # key [eg. 2580 + 0 + #].

This function allows a code to arm all areas that the code is assigned to in AWAY Mode at the same time without the need to arm each area individually.

Disarming The System (Off)

AWAY Mode

1. Enter your code followed by the # key. [eg. 2580 + #].

STAY Mode 1

1. Press and hold the * key until two beeps are heard (Only if no alarm).

Or

2. Enter your code followed by the # key. [eg. 2580 + #].

STAY Mode 2

1. Press and hold the 0 key until two beeps are heard (Only if no alarm).

Or

2. Enter your code followed by the # key. [eg. 2580 + #]. Disarm All Areas

1. Enter your code followed by 0 and then the # key [eg. 2580 + 0 + #].

This function allows a code to disarm all areas that the code is assigned to at the same time without the need to disarm each area individually.

Isolating Zones

Standard Isolating

- 1. Press the * key twice.
- 2. Enter the zone number that you want to isolate followed by the * key.

Repeat step 2 if more than one zone is required to be isolated.

3. Press the # key to exit when finished.

Code To Isolate

- 1. Press the * key once.
- 2. Enter your user code, followed by the * key.
- 3. Enter the zone number that you want to isolate followed by the * key.

Repeat step 2 if more than one zone is required to be isolated.

4. Press the # key to exit when finished.

Add/Delete RF Devices (Wireless Zones)

Add RF Device

- 1. Enter the Installer Code followed by 0 and the # key [eg. 1234 + 0 + #].
- 2. Enter the Device Number (1 16) that you want to add followed by the # key.
- 3. Enter the 9-digit RF device ID number followed by the # key.

Delete RF Device

- 1. Enter the Installer Code followed by 0 and the # key [eg. 1234 + 0 + #].
- 2. Enter the Device Number (1 16) that you want to delete followed by the # key.
- 3. Press the * key to delete the RF device.

Set First Test Report

- 1. Enter the Installer Code followed by 1 and the key [eg. 1234 + 1 + #].
- **2.** Enter the Number Of Days (0 15) to wait until first test report followed by the # key.

Event Memory Recall

 Enter the Installer Code or Master Code followed by 8 and the # key. [eg. 1234 + 8 + #].

The last 40 events (non partitioned) or last 10 events (partitioned) will be displayed in reverse order (i.e. most recent to least recent).

Walk Test Mode

- Enter the Installer Code or Master Code followed by 7 and the # key. [eg. 1234 + 7 + #].
- 2. Test each zone as required.
- **3.** Press the # key to exit.

Satellite Siren Service Mode

1. Enter the Installer Code followed by 5 and the # key [eg. 1234 + 5 + #].

Telephone Monitor Mode (Toggle On/Off)

- 1. Enter the Installer Code followed by 6 and the # key [eg. 1234 + 6 + #].
- 2. Press and hold the 9 key until two beeps are heard to send a test report.

Zone LED	Dialling Event				
1	Telephone Line Seized				
2	Dialling Telephone Number				
3	Handshake Received				
4	Data Being Sent				
5	Kiss-Off Received				
None	Released Telephone Line				

Add A User Code

- 1. Enter the Master Code followed by 1 and the # key [eg. 2580 + 1 + #].
- 2. Enter the User Number (1 16) that you want to add / change followed by the # key.
- **3.** Enter the New Code followed by the # key.

Add RF Keyfob

- Enter the Master Code followed by 1 and the # key [eg. 2580 + 1 + #].
- 2. Enter the User Number (9 16) that you want to add followed by the # key.
- **3.** Enter the 9-digit RF keyfob ID number followed by the # key.

Delete A User Code / RF Keyfob

- 1. Enter the Master Code followed by 1 and the # key [eg. 2580 + 1 + #].
- 2. Enter the User Number (1 16) that you want to delete followed by the # key.
- 3. Press the * key to delete the user code.

Change Domestic Telephone Numbers

- Enter the Installer Code or Master Code followed by 2 and the # key. [eg. 1234 + 2 + #].
- 2. Enter the digits for the telephone number.
- If more than one telephone number, press the * key followed by the 4 key (inserts break between phone numbers) and repeat Step 2, else press the # key to exit.

Turn Outputs On/Off

- 1. Enter the Master Code followed by 5 and the # key [eg. 2580 + 5 + #].
- **2.** Enter the Output Number (1 3) that you want to toggle on or off.
- **3.** Press the # key to toggle On or the * key to toggle Off.
- 4. Press the # key to exit.

Setting Date and Time

- 1. Enter the Master Code followed by 6 and the # key [eg. 2580 + 6 + #].
- 2. Enter the day (DD), month (MM) and year (YY) followed by the hour (HH) and minute (MM).
- **3.** Press the # key to exit.

Day Alarm – Toggle On/Off

1. Press and hold the 4 key until two beeps are heard. Day alarm will toggle on or off.

STAY Mode 2 Zones - Program

- Enter the Installer Code or Master Code followed by 8 and the # key. [eg. 1234 + 4 + #].
- 2. Enter the Zone Number that you want the system to automatically isolate followed by the * key.

Repeat if more than one zone to be automatically isolated when armed in STAY Mode 2.

3. Press the # key to exit.

Fault Analysis

- 1. Press and hold the 5 key until two beeps are heard.
- 2. Zone Indicators will display FAULT condition (see table below).
- 3. Press # key to exit.

Zone LED	FAULT Condition	
1	System Fault	Press and Hold Button 1 To Determine Fault 1 = Battery Fail 2 = Date/Time 3 = RF Rx Jamming RF Rx Tamper RF Rx Comm's Fail 4 = Horn Speaker Fail 5 = Telephone Line Fail 6 = E2 Fail 7 = Fuse Fail 8 = AC Fail
2	RF Low Battery	Press and Hold Button 2 To Determine Fault Displays Zones (1 – 8) that registers RF Low Battery
3	Zone Tamper	Press and Hold Button 3 To Determine Fault Displays Zones (1 – 8) that registers Zone Tamper
4	Sensor Watch	Press and Hold Button 4 To Determine Fault Displays Zones (1 – 8) that registers Zone Tamper
5	RF Sensor Watch	Press and Hold Button 5 To Determine Fault Displays Zones (1 – 8) that registers Zone Tamper
6	Communication Fail	Press and Hold Button 6 To Determine Fault 1 = Receiver 1 Fail (Dialler) 2 = Receiver 2 Fail (Dialler)

Modem Call (Alarm Link)

1. Press and hold the 6 key until two beeps are heard.

Latching Outputs (Reset)

1. Press and hold the 7 key until two beeps are heard.

Codepad ID / Buzzer Tone

1. Press and hold the 8 key until the desired buzzer tone has been reached.

If the system has been partitioned (CC488 Only), the Codepad will display a number to identify which area the Codepad belongs to (see table below).

2. Press the # key to exit.

Zone LED	Codepad Assignment					
1	Area 1					
2	Area 2					
7	Master Partitioned Codepad					

Test Report

1. Press and hold the 9 key until two beeps are heard.

Speaker Test

 Press and hold the 1 key until two beeps are heard. The speaker will sound for two seconds.

Bell Test

 Press and hold the 2 key until two beeps are heard. The piezo will sound for two seconds.

Strobe Test (Toggle On/Off)

- 1. Press and hold the 3 key until three beeps are heard to turn the strobe on.
- 2. Press and hold the 3 key until two beeps are heard to turn the strobe off.

Telco Arm Sequence (Call Forward On)

- Enter your Installer Code or Master Code followed by 3 and the # key. [eg. 1234 + 3 + #].
- 2. Press 1 followed by the # key.
- 3. Enter the Call Forward On sequence.
- 4. Press the # key to exit.

Telco Disarm Sequence (Call Forward On)

- Enter your Installer Code or Master Code followed by 3 and the # key. [eg. 1234 + 3 + #].
- 2. Press 2 followed by the # key.
- 3. Enter the Call Forward Off sequence.
- 4. Press the # key to exit.

Location 000 – 015 Phone Number 1 - Receiver 1		0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0
Location 016 – 031 Phone Number 2 – Receiver 1		0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0
Location 032 Handshake Tone For Receiver 1	1 = HI-LO Handshake (Contact 2 = 1400 Hz (Ademco TX @ 19 3 = 2300 Hz (Sescoa TX @ 180	00 [°] Hz) 5 = Pag	Handshake er	1
Location 033 Transmission Format For Receiver 1	1 = Contact ID 2 = 4 + 2 Expressed 3 = FSK 300 Baud	4 = Domestic 5 = Basic Pager 6 = Reserved	7 = Reserved 8 = 4+2 Pulsed	1
Location 034 - 039 Subscriber ID Number For Reco	eiver 1		0 0 0 0	0 0
Location 040 – 055 Phone Number 1 - Receiver 2		0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0
Location 056 – 071 Phone Number 2 - Receiver 2		0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0
Location 072 Handshake Tone For Receiver 2	1 = HI-LO Handshake (Contact 2 = 1400 Hz (Ademco TX @ 19 3 = 2300 Hz (Sescoa TX @ 180	00 [°] Hz) 5 = Pag	Handshake er	1
Location 073 Transmission Format For Receiver 2	1 = Contact ID 2 = 4 + 2 Expressed 3 = FSK 300 Baud	4 = Domestic 5 = Basic Pager 6 = Reserved	7 = Reserved 8 = 4+2 Pulsed	1
Location 074 - 079 Subscriber ID Number For Reco	eiver 2		0 0 0 0	0 0
Location 80 Dialling Format	1 = Australian DTMF 2 = Australian Decadic 3 = Alternate DTMF & Decadic	5 = Rev	rnational DTMF ersed Decadic rnate DTMF & Reversed Decadio	1
Location 081 – 112 Reserved				
Location 113 – 142 Telco Arming Sequence (Call F	orward On)			
0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0
Location 143 – 158 Telco Disarm Sequence (Call Fe	orward Off)	0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0
Location 159 – 174 Call Back Telephone Number		0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0
Location 175 Ring Count	0 = Panel Will Not Answer 1 – 13 = No Of Rings Until Pane		swering Machine Bypass 2 swering Machine Bypass 1	8
Location 176 Telephone Line Fail Options	2 = Sound Alarm When 4 = Sound Alarm When	System Is Disarmed t Be Used In Conjunction		0

Location 177 Dialler Opt	tions	i 1		2 = Remote A 4 = Answering	porting Functions A rming Via Telephor Machine Bypass (03 For FSK Forma	ne Allowed Only When A			9	
Location 178 Dialler Opt	tions	2		1 = Open/Close Reports Only If Previous Alarm 2 = Open/Close Reports For STAY Mode 1 and STAY Mode 2 4 = Delay Siren Until Transmission Complete 8 = Extend Handshake Wait Time From 30 To 55 Seconds						
Location 179 Dialler Opt	tions	3		2 = Lockout T	Dialling Pulses To elephone Line Fail ecadic Dialling To 6	Alarm (V1.03			0	
Location 179 Dialler Opt	tions	3 (V1.04+)		2 = Lockout T 4 = Change D	Dialling Pulses To elephone Line Fail ecadic Dialling To 6 lodem Module (CC	Alarm (V1.03 50/40	3+)	9+)	2	
Location 180 Alarm Link	c Opi	tions		2 = Call Back 4 = Exit Uploa	ownload Allowed Phone Number Re d/Download Conne lodem Module (CC	ection On Ala	arm	5	3	
Location 181								1	2 3 4	
Location 185 · User Code									<u>_</u>	
User #01	Loca	tion 185 - 188 5 8 0	189 10 Authority Level	User #02	Location 190 - 193	194 2 Authority Level	User #03	Location 195 - 198	199 2 Authority Level	
User #04	Loca 15	tion 200 - 203	204 2 Authority Level	User #05	Location 205 - 208	209 2 Authority Level	User #06	Location 210 - 213	214 2 Authority Level	
User #07	Loca 15	tion 215 - 218 15 15 15	219 2 Authority Level	User #08	Location 220 - 223 0 15 15 15	224 3 Authority Level	RF User #09	Location 225 - 228	229 2 Authority Level	
RF User #10	Loca 15	tion 230 - 233	234 2 Authority Level	RF User #11	Location 235 - 238	239 2 Authority Level	RF User #12	Location 240 - 243	244 2 Authority Level	
RF User #13	Loca 15	tion 245 - 248 15 15 15	249 2 Authority Level	RF User #14	Location 250 - 253	254 2 Authority Level	RF User #15	Location 255 - 258	259 2 Authority Level	
RF User #16	Loca 15	tion 260 - 263	264 2 Authority Level							
		Authority Level	Arm/Dis	arm	Descript	ion				

Level	
0	Arm/Disarm
1	Arm Only
2	Arm/Disarm + Open/Close Reports
3	Arm Only + Close Reports
4	Arm/Disarm + Code Required To Isolate
6	Arm/Disarm + Open/Close Reports + Code Required To Isolate
8	Master Code + Arm/Disarm
10	Master Code + Arm/Disarm + Open/Close Reports
12	Master Code + Arm/Disarm + Code Required To Isolate
14	Master Code + Arm/Disarm + Code Required To Isolate + Open/Close Reports

Location 265 Day Alarm Zones Location 266	1 = Zone 2 = Zone				Zone 3 Zone 4			0
EOL Resistor Value	0 = No E 1 = 1K 2 = 1K5 3 = 2K2 4 = 3K3 5 = 3K9	OL	6 = 4K7 7 = 5K6 8 = 6K8 9 = 10K 10 = 12K 11 = 22K	13 14	= Reserved = Reserved = Split EOL = Split EOL	(3K3/6K8 W	ith Tamper	(1K) 15
Location 267 - 322 Zone Defaults								
	Location Zone #01 (Default = Delay-1)	267 2 Zone Type	268 O Zone Pulse Count	Zone Pulse Count Time	270 1 Zone Options 1	271 14 Zone Options 2	272 1 Report Code	273 1 Dialler Options
	Location Zone #02 (Default = Handover)	274 1 Zone Type	275 O Zone Pulse Count	Zone Pulse Count Time	277 1 Zone Options 1	278 14 Zone Options 2	279 1 Report Code	280 1 Dialler Options
	Location Zone #03 (Default = Handover)	281 1 Zone Type	282 O Zone Pulse Count	283 O Zone Pulse Count Time	284 1 Zone Options 1	285 14 Zone Options 2	286 1 Report Code	287 1 Dialler Options
	Location Zone #04 (Default = Handover)	288 1 Zone Type	289 O Zone Pulse Count	290 O Zone Pulse Count Time	291 1 Zone Options 1	292 14 Zone Options 2	293 1 Report Code	294 1 Dialler Options
	Location Zone #05 (Default = Instant)	295 O Zone Type	296 0 Zone Pulse Count	297 O Zone Pulse Count Time	298 1 Zone Options 1	299 14 Zone Options 2	300 1 Report Code	301 1 Dialler Options
	Location Zone #06 (Default = Instant)	302 O Zone Type	303 O Zone Pulse Count	304 O Zone Pulse Count Time	305 1 Zone Options 1	306 14 Zone Options 2	307 1 Report Code	308 1 Dialler Options
	Location Zone #07 (Default = Instant)	309 O Zone Type	310 O Zone Pulse Count	311 O Zone Pulse Count Time	312 1 Zone Options 1	313 14 Zone Options 2	314 1 Report Code	315 1 Dialler Options
	Location Zone #08 (Default = 24 Hr Tamper)	316 9 Zone Type	317 O Zone Pulse Count	318 O Zone Pulse Count Time	319 1 Zone Options 1	320 12 Zone Options 2	321 1 Report Code	322 1 Dialler Options

Zone Types

Zone Type	Description	Zone Type	Description
0	Instant	8	24 Hr Hold-Up
1	Handover	9	24 Hr Tamper
2	Delay-1	10	Reserved
3	Delay-2	11	Keyswitch
4	Reserved	12	24 Hr Burglary
5	Reserved	13	24 Hr Fire
6	24 Hr Medical	14	Chime
7	24 Hr Panic	15	Not Used

Zone Pulse Count

The pulse count allows you to program how many pulses (0 - 15) need to be registered within the pulse count time to activate an alarm.

Zone Pulse Count Time

Option	20ms Loop Response Time	Option	150 ms Loop Response Time
0	0.5 Seconds	8	20 Seconds
1	1 Second	9	30 Seconds
2	2 Seconds	10	40 Seconds
3	3 Seconds	11	50 Seconds
4	4 Seconds	12	60 Seconds
5	5 Seconds	13	90 Seconds
6	10 Seconds	14	120 Seconds
7	15 Seconds	15	200 Seconds

Zone Options 1

Option	Description	
1	1 Lockout Siren/Dialler	
2 Delay Alarm Report		
4 Silent Alarm		
8	Sensor Watch	

Zone Options 2

Option	Group	
1 Isolated In STAY Mode 1		
2 Zone Isolation Allowed		
4 Forced Arming Allowed		
8	Zone Restore Report Allowed	

Zone Dialler Options

Option	Group	
0	No Zone Reports Allowed	
1	Report To Receiver 1	
2	Report To Receiver 2	
4	Report To Both Receiver 1 & Receiver 2	
8	Report To Receiver 2 Only If Receiver 1 Fails	

Keyswitch Zone Options

The keyswitch zone options replace Zone Options 1 only for the zones that have been programmed to operate as a keyswitch zone.

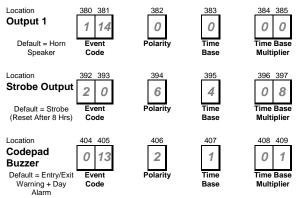
Option	Description	
0	Latching Arm and Disarm In AWAY Mode	
1	Latching Arm In AWAY Mode	
2	Latching Disarm From AWAY Mode Or STAY Mode	
4	Latching Arm and Disarm In STAY Mode	
5	Latching Arm In STAY Mode	
6	Latching Disarm From STAY Mode	
8	Momentary Arm and Disarm In AWAY Mode	
9	Momentary Arm In AWAY Mode	
10	Momentary Disarm From AWAY Mode Or STAY Mode	
12 Momentary Arm and Disarm In STAY Mode		
13 Momentary Arm In STAY Mode		
14	Momentary Disarm From STAY Mode	

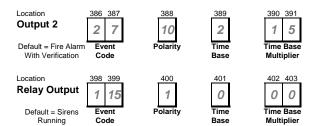
Location 323 Swinger Shutdown Count For Siren	0 = Unlimited / 1 - 15 = Number Of Times Siren Operate Till Locko	out 3
Location 324 Swinger Shutdown Count For Dialler	0 = Unlimited / 1 - 15 = Number Of Times Dialler Operate Till Lock	out 6
Location 325 - 326 Zone Status – Zone Tamper Report	Location 325 = Zone Tamper Report Location 326 = Zone Tamper Restore Report	0 0
Location 327 - 328 Zone Status – Walk Test Report	Location 327 = Walk Test Start Report Location 328 = Walk Test End Report	0 0
Location 329 - 330 Zone Status - Bypass Report	Location 329 = Zone Bypass Report Location 330 = Zone Bypass Restore Report	98
Location 331 - 332 Zone Status - Trouble Report	Location 331 = Zone Trouble Report Location 332 = Zone Trouble Restore Report	2 3
Location 333 - 334 Zone Status - Sensor Watch Report	Location 333 = Sensor Watch Report Location 334 = Sensor Watch Restore Report	4 5
Location 335 Zone Status - Alarm Restore Code		14
Location 336 Zone Status Reporting Options	0 = No Zone Status Reports Allowed 1 = Report To Receiver 1 2 = Report To Receiver 2 4 = Report To Both Receiver 1 & Receiver 2 8 = Report To Receiver 2 Only If Receiver 1 Fails	1
Location 337 RF Supervision Time	Location 337 = Increments Of 6 Hours (0 - 90 Hours)	0
Location 338 - 339 RF Low Battery Report	Location 338 = RF Low Battery Report Location 339 = RF Low Battery Restore Report	6 8
Location 340 - 341 RF Receiver Trouble Report	Location 340 = RF Receiver Trouble Report (Tens Digit) Location 341 = RF Receiver Trouble Report (Units Digit)	79
Location 342 - 343 RF Receiver Trouble Restore Report	Location 342 = RF Receiver Trouble Restore Report (Tens Digit) Location 343 = RF Receiver Trouble Restore Report (Units Digit)	7 11
Location 344 RF Dialler Options	0 = No Zone Status Reports Allowed 1 = Report To Receiver 1 2 = Report To Receiver 2 4 = Report To Both Receiver 1 & Receiver 2 8 = Report To Receiver 2 Only If Receiver 1 Fails	1
Location 345 - 346 Open/Close Reports	Location 345 = Open Report Location 346 = Close Report	11 12
Location 347 Open/Close Reporting Options	0 = No Open/Close Reports Allowed 1 = Report To Receiver 1 2 = Report To Receiver 2 4 = Report To Both Receiver 1 & Receiver 2 8 = Report To Receiver 2 Only If Receiver 1 Fails	1

Location 348 Codepad Duress Report		6
Location 349 - 350 Codepad Panic Report	Location 349 = Tens Digit Location 350 = Units Digit	7 15
Location 351 - 352 Codepad Fire Report	Location 351 = Tens Digit Location 352 = Units Digit	7 14
Location 353 - 354 Codepad Medical Report	Location 353 = Tens Digit Location 354 = Units Digit	7 13
Location 355 Codepad Reporting Options	0 = No Codepad Alarm Reports Allowed 1 = Report To Receiver 1 2 = Report To Receiver 2 4 = Report To Both Receiver 1 & Receiver 2 8 = Report To Receiver 2 Only If Receiver 1 Fails	1
Location 356 - 357 System Status - Fuse Fail Report	Location 356 = Tens Digit Location 357 = Units Digit	10 3
Location 358 - 359 System Status - Fuse Fail Restore Rep	Dort Location 358 = Tens Digit Location 359 = Units Digit	10 8
Location 360 - 361 System Status - AC Fail Report	Location 360 = Tens Digit Location 361 = Units Digit	10 2
Location 362 - 363 System Status - AC Fail Restore Repo	rt Location 362 = Tens Digit Location 363 = Units Digit	10 7
Location 364 - 365 System Status - Low Battery Report	Location 364 = Tens Digit Location 365 = Units Digit	10 1
Location 366 - 367 System Status - Low Battery Restore Report	Location 366 = Tens Digit Location 367 = Units Digit	10 6
Location 368 - 370 System Status - Access Denied (Code R	tetry) Location 368 = Code Retry Limit (0 = Unlimited) Location 369 = Tens Digit Location 370 = Units Digit	368 369 370 6 7 12
Location 371 System Status Reporting Options	0 = No Codepad Alarm Reports Allowed 1 = Report To Receiver 1 2 = Report To Receiver 2 4 = Report To Both Receiver 1 & Receiver 2 8 = Report To Receiver 2 Only If Receiver 1 Fails	1
Location 372 - 378 Test Report Time (Automatic)	Location 372 = Hour Of Day (Tens Digit) Location 373 = Hour Of Day (Units Digit) Location 374 = Minute Of Day (Tens Digit) Location 375 = Minute Of Day (Units Digit) Location 376 = Test Report (Tens Digit) Location 377 = Test Report (Units Digit) Location 378 = Repeat Interval In Days	376 377 378 7 1 Tens/Units Report Code
Location 379 Test Reporting Dialler Options	0 = No Codepad Alarm Reports Allowed 1 = Report To Receiver 1 2 = Report To Receiver 2 4 = Report To Both Receiver 1 & Receiver 2 8 = Report To Receiver 2 Only If Receiver 1 Fails	1

Location 380 - 409 Outputs

- ----







Event		Event			
Code		Description		ode	Description
0	0	BOSCHSAT – Satellite Siren (Output 1 Only)	3	1	Dialler Disabled
0	1	System Armed	3	2	Dialler Active (On-Line)
0	2	System Disarmed	3	3	Ring Detect
0	3	Armed In STAY Mode	3	4	Codepad Panic (Multi-Break) V1.05+
0	4	Armed In AWAY	3	5	Mimic Zone 1
0	5	Pre-Arming Alert	3	6	Mimic Zone 2
0	6	Exit Warning (All Zones Sealed) + Entry Warning	3	7	Mimic Zone 3
0	7	Exit Warning	3	8	Mimic Zone 4
0	8	Exit Warning Finished	3	9	Mimic Zone 5
0	9	Kiss-Off After End Of Exit Time	3	10	Mimic Zone 6
0	10	Reserved	3	11	Mimic Zone 7
0	11	Entry Warning	3	12	Mimic Zone 8
0	12	Entry Warning + Day Alarm Resetting	3	13	Reserved
0	13	Exit Warning + Entry Warning + Day Alarm Resetting	3	14	Reserved
0	14	Day Alarm Resetting	3	15	Reserved
0	15	Day Alarm Latching	4	0	Reserved
1	0	Day Alarm Enabled	4	1	Reserved
1	1	Telephone Line Fail	4	2	Reserved
1	2	Kiss-Off Received	4	3	Reserved
1	3	Fuse Fail	4	4	Reserved
1	4	AC Fail	4	5	Chime
1	5	Low Battery	4	6	Zone Not Sealed
1	6	Horn Speaker Fail	4	7	Zone Not Sealed After Exit Time
1	7	Sensor Watch Alarm	4	8	Reserved
1	8	Codepad Medical Alarm	4	9	AC Mains Cycle (60 Hz Or 50 Hz)
1	9	Codepad Fire Alarm	4	10	Area 1 - Zone Unsealed (Solution 880 Only)
1	10	Codepad Panic Alarm	4	11	Area 2 – Zone Unsealed (Solution 880 Only)
1	11	Codepad Duress Alarm	4	12	Reserved
1	12	Access Denied (Code Retries)	4	13	Reserved
1	13	Reserved	4	14	Reserved
1	14	Horn Speaker (Output 1 Only)	4	15	Reserved
1	15	Sirens Running	5	0	Reserved
2	0	Strobe	5	1	Reserved
2	1	Silent Alarm	5	2	Area 1 In Alarm (Solution 880 Only)
2	2	Alarm In STAY Mode	5	3	Area 2 In Alarm (Solution 880 Only)
2	3	Alarm In AWAY Mode	5	4	Reserved
2	4	System Fault	5	5	Reserved
2	5	Fire Alarm (Resetting)	5	6	Area 1 Armed (Solution 880 Only)
2	6	Fire Alarm (Latching)	5	7	Area 2 Armed (Solution 880 Only)
2	7	Fire Alarm (Verification)	5	8	Reserved
2	8	Remote Control 1	5	9	Reserved
2	9	Remote Control 2	5	10	Area 1 Disarmed (Solution 880 Only)
2	10	Remote Control 3	5	11	Area 2 Disarmed (Solution 880 Only)
	11	Radio Control Output 1	5	12	Reserved
2	12	Radio Control Output 2	-	13	Reserved
	13	Radio Control Output 1 - Not In AWAY Mode	5	14	Any Areas Armed (Solution 880 Only)
2	14	Radio Control Output 2 - Not In AWAY Mode	5	15	Any Areas Disarmed (Solution 880 Only)
2	15	Communications Fail After 3 Attempts	6	0	Area 1 Codepad Data Terminal (Solution 880 Only)
3	0	Communications Fail	6	1	Area 2 Codepad Data Terminal (Solution 880 Only)

Polarity (Modes)

Option	Description	Option	Description
0	Disabled		
1	Normally Open, Going Low	8	Normally Low, Going Open
2	Normally Open, Pulsing Low	9	Normally Low, Pulsing Open
3	Normally Open, One Shot Low	10	Normally Low, One Shot Open
4	Normally Open, One Shot Low (Reset)	11	Normally Low, One Shot Open (Reset)
5	Normally Open, One Shot Low (Re-trigger)	12	Normally Low, One Shot Open (Re-trigger)
6	Normally Open, One Shot Low (Alarm)	13	Normally Low, One Shot Open (Alarm)
7	Normally Open, Latching Low	14	Normally Low, Latching Open

Time Base

Choose one of the options in the table below for the time base.

Option	D	escription
1	200 ms	
2	1 Second	
3	1 Minute	
4	1 Hour	

Time Base Multiplier Enter a value between 01 – 99.

One Shot Mode

When you program the output polarity as a one shot, the time base is multiplied by the time base multiplier (eg. If the time base = 2 and the multiplier = 05, the output will operate for 5 seconds)

Pulsing Mode

When you program the output polarity as pulsing, the time base becomes the 'ON' time and the multiplier becomes the 'OFF' time. The 'OFF' time is the time base x the multiplier (eg. If you want the output to pulse one (1) second 'ON' and five (5) seconds 'OFF', you would program time base as one (1) and the multiplier as five (5)).

1

Location 410 - 411		
Entry Time 1	Location 410 = Increments Of 1 Second (0 – 15 Seconds) Location 411 = Increments Of 16 Seconds (0 – 240 Seconds)	4 1
Location 412 - 413 Entry Time 2	Location 412 = Increments Of 1 Second (0 – 15 Seconds) Location 413 = Increments Of 16 Seconds (0 – 240 Seconds)	8 2
Location 414 - 415 Exit Time (AWAY/STAY Modes)	Location 414 = Increments Of 1 Second (0 – 15 Seconds) Location 415 = Increments Of 16 Seconds (0 – 240 Seconds)	12 3
Location 416 - 417 Entry Guard Time For STAY Mode	Location 416 = Increments Of 1 Second (0 – 15 Seconds) Location 417 = Increments Of 16 Seconds (0 – 240 Seconds)	0 0
Location 418 - 419 Delay Alarm Report Time	Location 418 = Increments Of 1 Second $(0 - 15 \text{ Seconds})$ Location 419 = Increments Of 16 Seconds $(0 - 240 \text{ Seconds})$	0 0
Location 420 - 421 Sensor Watch Time	Location 420 = Increments Of Days (Tens Digit) Location 421 = Increments Of Days (Units Digit)	0 0
Location 422 Codepad Lockout Time	Location 422 = Increments Of 10 Seconds (0 – 150 Seconds)	0
Location 423 Siren Run Time	Location 423 = Increments Of 1 Minute (0 - 15 Minutes)	5
Location 424 Siren Sound Rate	Location 424 = (0 = Slowest Frequency / 15 = Fastest Frequency)	7
Location 425 Auto Arming Pre-Alert Time	Location 425 = Increments of 5 Minutes (0 – 75 Minutes)	1
Location 426 - 429 Auto Arming Time	Location 426 = Hour Of The Day (Tens Digit) Location 427 = Hour Of The Day (Units Digit) Location 428 = Minute Of The Day (Tens Digit) Location 429 = Minute Of The Day (Units Digit)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Location 430 - 433 Auto Disarming Time	Location 430 = Hour Of The Day (Tens Digit) Location 431 = Hour Of The Day (Units Digit) Location 432 = Minute Of The Day (Tens Digit) Location 433 = Minute Of The Day (Units Digit)	430 431 0 0 H H : 0 0 M M
Location 434 Kiss-Off Wait Time	Location 434 = Increments Of 500 ms (500 ms - 8 Seconds)	3
Location 435 Speaker Beep Volume	Location 435 = (0 = No Beeps / 15 = Loudest Beeps)	13
Location 436 System Options 1	1 = BOSCH Smart Lockout Allowed 2 = Horn Speaker Monitor 4 = Strobe Indication For Radio Arm/Disarm 8 = Assign Button 4 On Transmitter To Operate STAY Mode 1	1
Location 437 System Options 2	1 = Codepad Panic To Be Silent 2 = Codepad Fire To Be Silent 4 = Codepad Medical To Be Silent 8 = Access Denied (Code Retries) To Be Silent	0

Location 438		
System Options 3	1 = AC Fail After 1 Hour (Disabled = After 2 Minutes)	
	2 = Ignore AC Fail	
	4 = Pulse Count Handover Allowed 8 = Handover Delay To Be Sequential	8
Location 439		
System Options 4	1 = Panel To Power Up Disarmed (If Power Reset)	
	2 = Arm/Disarm Tracking On Power Up 4 = Internal Crystal To Keep Time	
	8 = Radio Keyswitch Interface, Night Arm Station Or RE005 Installed	0
Location 440		
Consumer Options 1	1 = Test Reports Only When Armed 2 = Test Report After Siren Reset	
	4 = Auto Arm In STAY Mode 1	0
	8 = STAY Indicator To Display Day Alarm Status	0
Location 441		
Consumer Options 2	1 = Codepad Display Extinguish After 60 Seconds 2 = Single Button Arming Allowed (AWAY/STAY Mode 1 & 2)	
	4 = Single Button Disarming Allowed (STAY Mode 1 & 2)	2
	8 = Alarm Memory Reset On Disarm	2
Location 442		
Consumer Options 3	1 = Codepad Fault Beeps Allowed	
	2 = Use Digit 3 For Codepad Duress Alarm (Instead Of Digit 9) 4 = Alarms Activate Sirens and Strobe Outputs In STAY Mode 1 & 2	
	8 = Zone Tamper Alarms To Be Silent	5
Location 443		
Radio Input Options	1 = DS 304Mhz RF Receiver (RF3212)	
	2 = Latching Keyswitch Input 3 = Momentary Keyswitch Input	
	4 = Reserved	0
Location 444		
Partitioning Options 1	1 = First To Open/Last To Close Reporting Allowed 2 = Area 1 Codepad Connected To Data Terminal	
	4 = Reset Sirens From Any Area Allowed	0
	8 = Master Codepad To Display AUX Indicator When On-Line	0
Location 445		
Partitioning Options 2	1 = Lock Area 1 To Receiver 1 & Lock Area 2 To Receiver 2 2 = User Codes Allowed To Arm/Disarm Both Areas At Same Time (Code + 0 + #)	
	4 = Reserved	
	8 = Reserved	0
Location 446 - 453		
Zone Allocations For Area 1	Location 446 = Zone 1 LED – Area 1 Codepad	
	Location 447 = Zone 2 LED – Area 1 Codepad Location 448 = Zone 3 LED – Area 1 Codepad	
	Location 449 = Zone 4 LED – Area 1 Codepad	
	Location 450 = Zone 5 LED - Area 1 Codepad 446 447 448 449 450 45	1 452 453
	Location 451 = Zone 6 LED – Area 1 Codepad Location 452 = Zone 7 LED – Area 1 Codepad	0 0
	Location 453 = Zone 8 LED - Area 1 Codepad Z1 Z2 Z3 Z4 Z5 Z4	6 Z7 Z8
Location 454 - 461		
Zone Allocations For Area 2	Location 454 = Zone 1 LED – Area 2 Codepad	
	Location 455 = Zone 2 LED – Area 2 Codepad Location 456 = Zone 3 LED – Area 2 Codepad	
	Location 450 = Zone 3 LED – Area 2 Codepad	
	Location 458 = Zone 5 LED – Area 2 Codepad 454 455 456 457 458 45	9 460 461
	Location 459 = Zone 6 LED – Area 2 Codepad	0 0
	Location 460 = Zone 7 LED – Area 2 Codepad Z1 Z2 Z3 Z4 Z5 Z4	

Location 462 - 477

User Code Area Assignment	0 = User Code Not Assigned 1 = User Code Assigned To Area 1 2 = User Code Assigned To Area 2 3 = User Code Assigned To Both Area 1 and Area 2	
User Code 1 462 User Code 2 0	User Code 3 0 User Code 4 0 User Code 4	le 5 0 User Code 6 0
User Code 7 0 User Code 8 0	User Code 9 0 User Code 10 0 User Code 10	e 11 0 User Code 12 0
User Code 13 0 User Code 14 0	User Code 15 0 User Code 16 0	
Location 478 - 525 Domestic Telephone Numbers		
Location 526 Reserved		0
Location 527 RF Options	1 = Sound Siren On RF Receiver Fail 2 = Sound Siren On RF Receiver Tamper / Jamming 4 = Unseal Zone That Fails Supervision (If Supervisior 8 = RF Jamming Monitoring Allowed	n Enabled)
Location 528 - 535 RF Device Mapping For Devices 1 – 8	Location 528 = Map RF Device 1 To Zone (1 To 8) Location 529 = Map RF Device 2 To Zone (1 To 8) Location 530 = Map RF Device 3 To Zone (1 To 8) Location 531 = Map RF Device 4 To Zone (1 To 8) Location 532 = Map RF Device 5 To Zone (1 To 8) Location 533 = Map RF Device 6 To Zone (1 To 8) Location 534 = Map RF Device 7 To Zone (1 To 8) Location 535 = Map RF Device 8 To Zone (1 To 8)	528 529 530 531 532 533 534 535 1 2 3 4 5 6 7 8 D1 D2 D3 D4 D5 D6 D7 D8
Location 536 - 543 RF Device Mapping For Devices 9 – 16	Location 536 = Map RF Device 9 To Zone (1 To 8) Location 537 = Map RF Device 10 To Zone (1 To 8) Location 538 = Map RF Device 11 To Zone (1 To 8) Location 539 = Map RF Device 12 To Zone (1 To 8) Location 540 = Map RF Device 13 To Zone (1 To 8) Location 541 = Map RF Device 14 To Zone (1 To 8) Location 542 = Map RF Device 15 To Zone (1 To 8) Location 543 = Map RF Device 16 To Zone (1 To 8)	536 537 538 539 540 541 542 543 0 0 0 0 0 0 0 0 0 D9 D10 D11 D12 D13 D14 D16 D16
Location 748 - 749 Ring Burst Time (V1.07+)	Location 748 = Increments Of 5 ms (0 – 75 ms) Location 749 = Increments Of 80 ms (0 – 1200 ms)	4 6
Location 801 - 808 RF Signal Strength For Devices 1 – 8	Location 801 = Signal Strength For RF Device 1 Location 802 = Signal Strength For RF Device 2 Location 803 = Signal Strength For RF Device 3 Location 804 = Signal Strength For RF Device 4 Location 805 = Signal Strength For RF Device 5 Location 806 = Signal Strength For RF Device 6 Location 807 = Signal Strength For RF Device 7 Location 808 = Signal Strength For RF Device 8	801 802 803 804 805 806 807 808 0
Location 809 - 816 RF Signal Strength For Devices 9 - 16	Location 809 = Signal Strength For RF Device 9 Location 810 = Signal Strength For RF Device 10 Location 811 = Signal Strength For RF Device 11 Location 812 = Signal Strength For RF Device 12 Location 813 = Signal Strength For RF Device 13 Location 814 = Signal Strength For RF Device 14 Location 815 = Signal Strength For RF Device 15 Location 816 = Signal Strength For RF Device 16	809 810 811 812 813 814 815 816 0

Location 900 Default Options	0 = Defaulting System Allowed / 15 = Defaulting System Disabled	0
Location 901 - 904 System Time	Location 901 = Hour Of The Day (Tens Digit) Location 902 = Hour Of The Day (Units Digit) Location 903 = Minute Of The Day (Tens Digit) Location 904 = Minute Of The Day (Units Digit)	901 902 0 0 H H M M
Location 905 - 910 System Date	Location 905 = Day Of The Month (Tens Digit) Location 906 = Day Of The Month (Units Digit) Location 907 = Month Of The Year (Tens Digit) Location 908 = Month Of The Year (Units Digit) Location 909 = Current Year (Tens Digit) Location 910 = Current Year (Units Digit)	06 907 908 909 910 1 0 1 0 1 D M M Y Y

Solution Ultima RF Receiver Interface Connections



Figure 1: RF Receiver (RF3212) Wiring Diagram

Wiring and Power Up

- Remove power from the control panel.
- Connect the RF Receiver to the control panel as shown above using 0.8mm (22-gauge) or larger wire. Wire length should not exceed 300 meters (1000 feet).
- Apply power to the control panel. The red LED at the centre of the module will turn on.



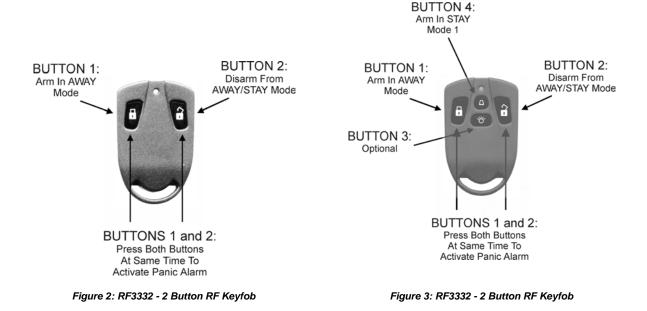
The following describes the status of the module based on the LED condition.

LED On - Module is functioning normally.

LED Off - Power failure has occurred or module is not wired correctly.

LED Turns Off Momentarily – Module acknowledged receiving an RF signal from a remote RF device.

RF Keyfob Operations For Solution Ultima Series Control Panels



Connections For Split EOL Resistors For 8 Burglary Zones

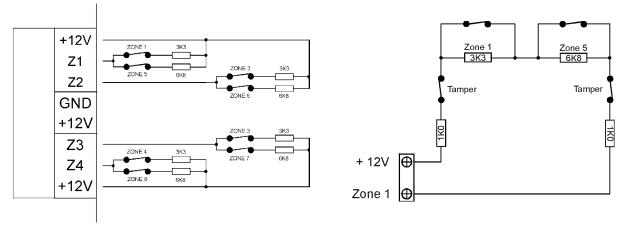


Figure 4: Split EOL Wiring Diagram (Location 266 = 15)

Figure 5: Split EOL Wiring Diagram With Tamper (Location 266 = 14)

Connections For Split EOL Resistors For 8 Zone Operation Using N/O Contacts

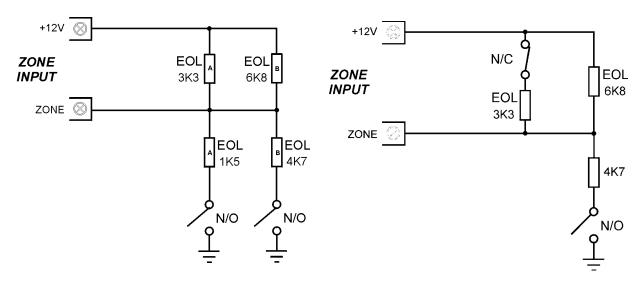


Figure 6: Split EOL Wiring Diagrams Using N/O Contacts

Wiring Diagram For Keyswitch Zone

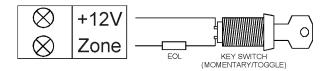


Figure 7: Wiring Diagram For Keyswitch Zone

Wiring Diagram

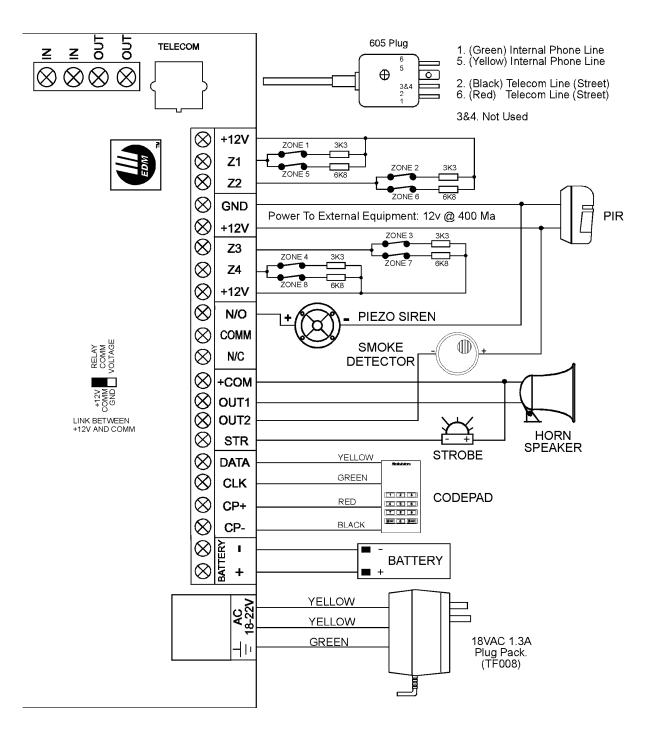


Figure 8: Solution Ultima Series Wiring Diagram

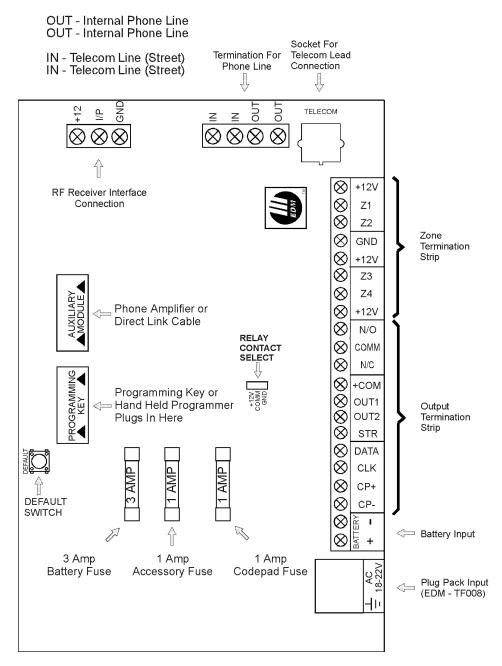
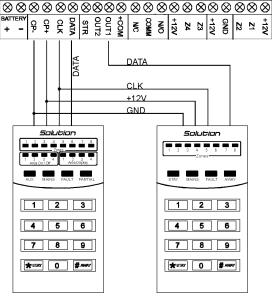


Figure 9: Solution Ultima Series Component Overlay

Codepad Connections For Partitioning - Examples



If the CP-5 Area Addressable (CP500A) codepad is assigned to **Area 1**, DIP Switch 1 on the back of the remote codepad will need to be in the ON position. The following locations for Output 1 will need to be programmed.

[LOCATION 380 = 6, 381 = 0]

If the CP-5 Area Addressable (CP500A) codepad is assigned to **Area 2**, DIP Switch 2 on the back of the remote codepad will need to be in the ON position. The following locations for Output 1 will need to be programmed.

[LOCATION 380 = 6, 381 = 1]

Note: The Master Partitioned Keypad requires all DIP switches set to the 'ON' position to operate correctly.

MASTER PARTITIONED CODEPAD ADDRESSABLE AREA CODEPAD

Figure 10: Connections For CP-5 Master Partitioned (CP500P) Codepad and CP-5 Area Addressable (CP500A) Codepad

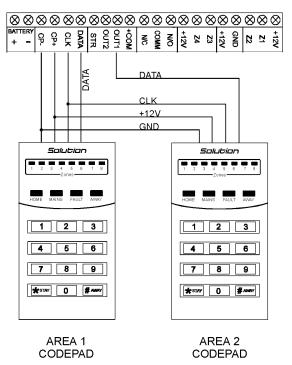


Figure 11: Connections For Two CP-5 Eight Zone Area Addressable (CP500A) Codepad

The following DIP Switch settings and locations must be programmed for the two CP-5 Area Addressable (CP500A) codepads to function correctly.

AREA 1 CODEPAD

DIP Switch 1 on the back of the remote codepad will need to be in the ON position. The following location will also need to be programmed.

[LOCATION 444, Option bit 2 must be enabled]

AREA 2 CODEPAD - (Output 1)

DIP Switch 2 on the back of the remote codepad will need to be in the ON position. The following locations for Output 1 will need to be programmed.

[LOCATION 380 = 6, 381 = 1]