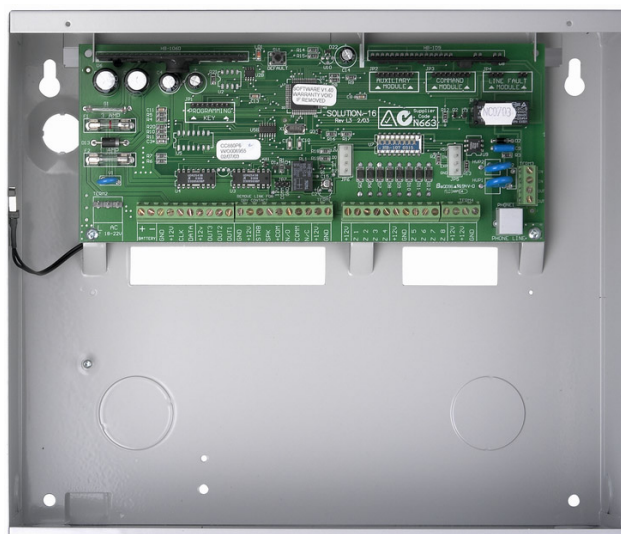


CC880/LP880, SC8016



Security Systems

EN

Quick Reference Guide
Solution-16,
Solution-16 Safecom

BOSCH

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1. Overview

1.1 Introduction

Thank you for choosing the Solution Ultima 880 Model CC488 control panel for your installation. You will find this system extremely flexible, reliable, and easy to use. The quick reference guide supplied with the system provides users with enough basic information to wire, configure, and program the system. Due to the systems many programmable features and options, obtain the complete *Installation Manual* that provides detailed information on system options, functions, and programming methods.

1.2 Programming

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

The entire programming sequence consists of entering a location number and changing the data as required.

Use the following methods to program the system:

- Codepad
- Hand Held Programmer
- Alarm Link Software

1.3 Programming Using a Codepad

The system must 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 the Master Code factory default.

To enter installer’s programming mode, enter the installer code (Default = 1234) followed by the [#] key. Two beeps sound and both the STAY and AWAY indicators flash simultaneously to indicate that you entered programming mode. The codepad indicators 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 is displayed using the codepad indicators. (For example, if you entered [3 4 #], the system jumps to LOCATION 034, the beginning of the Subscriber ID Number for Receiver 1.)

To move to the next location, press the [#] key. This steps you to the next location. The data in the next location is displayed using the codepad indicators. (For example, if you are currently positioned at LOCATION 034, pressing the [#] key takes you to LOCATION 035.)

To step back one location, press the [*] key. (For example, if you are currently positioned at LOCATION 35, pressing the [*] key takes you back to LOCATION 34.)

To change data in the current location, enter the new value (0 to 15) followed by the [*] key. This stores the new data into the location. (For example, if you enter the value [1 4 *], both the Zone 4 indicator and the MAINS indicator display to represent the new data value.)

To move to the next location, press the [#] key. The data in the next location displays.

To exit Installer’s Programming Mode, enter [9 6 0 #]. Two beeps sound and the STAY and AWAY indicators no longer display. The system returns to the disarmed state and is ready for use.

Table 1 displays a quick guide to programming:

Task	Keys to Press
Enter Installer's Programming Mode	[1 2 3 4 #]
Exit Installer's Programming Mode	[9 6 0 #]
Step to next location	[#]
Step back one location	[*]
Program new data into location	[Data][*] (Data = 0 to 15)
Jump to another location	[Location Number][#]

2. Codepad Indicators

Table 2: 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	X								
2		X							
3			X						
4				X					
5					X				
6						X			
7							X		
8								X	
9	X							X	
10									X
11	X								X
12		X							X
13			X						X
14				X					X
15					X				X

3. Programming Option Bits

Use option bits to program any combination of the four different options in one location by adding the options together. Programming a zero disables all four options.

Example

If you only want options 1, 2, and 4, at LOCATION 177, add the numbers together. The total is the number to program: $1 + 2 + 4 = 7$.

Table 3: Programming Option Bits

Option	Description
1	Dialler reporting functions allowed.
2	Remote arming using telephone allowed.
4	Answering machine bypass only when armed.
8	Bell 103 used for FSK format (Disabled = CCITT V21).

4. Programming Commands

Installer programming commands, displayed in *Table 4*, can only be used when you enter Installer's Programming Mode. Enter the command followed by the [#] key.

Table 4: Installer's Programming Commands

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).

4.1 Arming the System (On)

4.1.1 AWAY Mode

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

Or

Enter your code followed by the [#] key (for example, [2 5 8 0 #]).

4.1.2 STAY Mode 1

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

Or

Enter your code followed by the [*] key (for example, [2 5 8 0 *]).

4.1.3 STAY Mode 2

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

4.1.4 Arm All Areas in AWAY Mode (Partitioning)

Enter your code followed by [0] and then the [#] key (for example, [2 5 8 0 *]).

Use this code to arm all areas that the code is assigned simultaneously to in AWAY Mode without arming each area individually.

4.2 Disarming the System (Off)

4.2.1 AWAY Mode

Enter your code followed by the [#] key (for example, [2 5 8 0 #]).

4.2.2 STAY Mode 1

Press and hold the [*] key until two beeps are heard (only if no alarm).

Or

Enter your code followed by the [#] key (for example, [2 5 8 0 #]).

4.2.3 STAY Mode 2

Press the [0] key until two beeps are heard (only if no alarm).

Or

Enter your code followed by the [#] key (for example, [2 5 8 0 #]).

4.2.4 Disarm All Areas (Partitioning)

Enter your code followed by [0] and then the [#] key (for example, [2 5 8 0 *]).

Use this code to disarm all areas that the code is assigned simultaneously without disarming each area individually.

4.3 Isolating Zones

4.3.1 Standard Isolating

1. Press the [*] key twice.
2. Enter the zone number you want isolated followed by the [*] key.
Repeat Step 2 if more than one zone must be isolated.
3. Press the [#] key to exit when finished.

4.3.2 Code to Isolate

1. Press the [*] key once.
2. Enter your user code.
3. Enter the zone number you want isolated followed by the [*] key.
Repeat Step 2 if more than one zone must be isolated.
4. Press the [#] key to exit when finished.

4.3.3 Set First Test Report

1. Enter the four character Installer Code followed by [2] and the [#] key (for example, [1 2 3 4 2 #]).
2. Enter the number of days (0 to 99) to wait until the first test report followed by the [#] key.

4.3.4 Event Memory Recall

Enter the four character Installer Code or Master Code followed by [3] and the [#] key (for example, [1 2 3 4 8 #]).

The last 40 events (non-partitioned) or last ten events (partitioned) are displayed in reverse order (for example, most recent to least recent).

4.3.5 Walk Test Mode

1. Enter the four character Installer Code or Master Code followed by [4] and the [#] key (for example, [1 2 3 4 4 #]).
2. Test each zone as required.
3. Press the [#] key to exit.

4.3.6 Satellite Siren Service Mode

Enter the Installer Code followed by [5] and the [#] key (for example, [1 2 3 4 5 #]).

4.3.7 Telephone Monitor Mode (Toggle On/Off)

1. Enter the four character Installer Code followed by [7] and the [#] key (for example, [1 2 3 4 7 #]).
2. Press and hold the [9] key until two beeps sound to send a Test Report.
3. When complete, repeat Step 1 to turn the Telephone Monitor Mode off.

Table 5: Telephone Monitor Mode

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

4.3.8 Add a User Code

1. Enter the four character Master Code followed by [1] and the [#] key (for example, [2 5 8 0 1 #]).
2. Enter the user number you want to add/change followed by the [#] key.
3. Enter the new code followed by the [#] key.

4.3.9 Delete a User Code (V1.10)

1. Enter the four character Master Code followed by [1] and the [#] key (for example, [2 5 8 0 1 #]).
2. Enter the user number you want to delete followed by the [#] key.
3. Press the [#] key to delete the user code.

4.3.10 Delete a User Code (V1.20+)

1. Enter the four character Master Code followed by [1] and the [#] key (for example, [2 5 8 0 1 #]).
2. Enter the user number you want to delete followed by the [#] key.
3. Press the [*] key to delete the user code.

4.3.11 Change Domestic Telephone Numbers

1. Enter the four character Master Code followed by [2] and the [#] key (for example, [2 5 8 0 2 #]).
2. Enter the digits for the telephone number.
3. If more than one telephone number, press the [*] key and repeat Step 2, or press the [#] key to exit.

4.3.12 Turn Outputs On/Off

1. Enter the four character Master Code followed by [5] and the [#] key (for example, [2 5 8 0 5 #]).
2. Enter the output number (1 to 5) 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.

4.3.13 Set Date and Time

1. Enter the four character Master Code followed by [6] and the [#] key (for example, [2 5 8 0 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.

4.3.14 Day Alarm – Toggle On/Off (V1.10)

Enter the four character Master Code followed by [7] and the [#] key (for example, [2 5 8 0 7 #]).

4.3.15 Day Alarm – Toggle On/Off (V1.20+)

Press and hold the [4] key until two beeps are heard.

4.3.16 STAY Mode 2 Zones - Program

1. Enter the four character Master Code followed by [8] and the [#] key (for example, [2 5 8 0 8 #]).
2. Enter the zone number you want the system to automatically isolate followed by the [*] key. Repeat if more than one zone must be automatically isolated when armed in STAY Mode 2.
3. Press the [#] key to exit.

4.3.17 Fault Analysis

1. Press and hold the [5] key until two beeps are heard.
2. Zone indicators display fault conditions (see *Table 6*).
3. Press [#] key to exit.

Table 6: Fault Analysis

Zone LED	FAULT Condition
1	Battery low
2	Date/time reset
3	Sensor watch fail
4	Horn speaker fail
5	Telephone line fail
6	EPROM fail
7	Fuse fail
8	Communication fail

4.3.18 Modem Call (Alarm Link)

Press and hold the [6] key until two beeps sound.

4.3.19 Latching Outputs (Reset)

Press and hold the [7] key until two beeps sound.

4.3.20 Codepad ID/Buzzer Tone

- Press and hold the [8] key until the desired buzzer tone is reached.
If the system is partitioned, the codepad displays a number to identify which area the codepad belongs to (see *Table 7*).
- Press the [#] key to exit.

Table 7: Codepad ID/Buzzer Tone

Zone LED	Codepad Assignment
1	Area 1
2	Area 2
3	Area 3
4	Area 4
7	Master Partitioned Codepad

4.3.21 Test Report

Press and hold the [9] key until two beeps sound.

4.3.22 Speaker Test

Press and hold the [1] key until two beeps sound. The speaker sounds for two seconds.

4.3.23 Bell Test

Press and hold the [2] key until two beeps sound. The piezo sounds for 2 seconds.

4.3.24 Strobe Test (Toggle On/Off)

Press and hold the [3] key until three beeps sound to turn the strobe on.

Or

Press and hold the [3] key until two beeps sound to turn the strobe off.

5. Programming Parameters



Shaded rows indicate default values.

5.1 Telephone Programming

5.1.1 Primary Telephone Number

Location	000 to 015
Default	0
	0 = 10 and telephone termination = 0 Anywhere else 0 = 0

5.1.2 Secondary Telephone Number

Location	016 to 031
Default	0
	0 = 10 and telephone termination = 0 Anywhere else 0 = 0

5.1.3 Call Back Telephone Number

Location	032 to 047
Default	0
	0 = 10 and telephone termination = 0 Anywhere else 0 = 0

5.1.4 Dialling Format

Location	048
1	Australian DTMF
2	Australian decadic
3	Alternate DTMF and decadic (Aust)
4	International DTMF
5	Reversed decadic
6	Alternate DTMF and reversed decadic

5.1.5 Handshake Tone

Location	049
1	HI-LO handshake (contact ID)
2	1400 Hz (Ademco TX @ 1900 Hz)
3	2300 Hz (Sescoa TX @ 1800 Hz)
4	No handshake
5	Pager

5.1.6 Transmission Format

Location	050
1	Contact ID
2	4 + 2 expressed
3	4 + 2 pulsed
4	4 + 2 pulsed + checksum
5	4 + 1 pulsed + universal
6	4 + 1 pulsed expanded
7	3 + 1 pulsed universal
8	3 + 1 pulsed expanded
9	Reserved
10	Reserved
11	Domestic
12	Basic pager
13	Reserved
14	PET alpha pager
15	Synthesised voice

5.1.7 Transmission Speed

Location	051
1	1 pulse/second
2	10 pulses/second
3	15 pulses/second
4	20 pulses/second
5	20 pulses/second FDL
6	40 pulses/second

5.1.8 Subscriber ID Number For Area 1

Location	052 to 055
Default	0

5.1.9 Installer Code

Location	056 to 062	
	Location	Default
	056	1
	057	2
	058	3
	059	4
	060	15
	061	15
	062	15

5.1.10 Ring Count

Location	063
Default	8
0	Panel will not answer
1 to 13	Number of rings until panel answers
14	Answering machine bypass 2 (V1.37+)
15	Answering machine bypass 1

5.2 User Code Programming

5.2.1 User Codes

Location	064 to 319	
	Location	Default
User Code 1	064	2
	065	5
	066	8
	067	0
	068 to 070	15
User Code 1	Authority Level*	071
	071	8
User Code 2	072 to 078	15
	Authority Level*	079
User Code 3	080 to 086	15
	Authority Level*	087
User Code 4	088 to 094	15
	Authority Level*	095
User Code 5	096 to 102	15
	Authority Level*	103
User Code 6	104 to 110	15
	Authority Level*	111
User Code 7	112 to 118	15
	Authority Level*	119
User Code 8	120 to 126	15
	Authority Level*	127
User Code 9	128 to 134	15
	Authority Level*	135
User Code 10	136 to 142	15
	Authority Level*	143
User Code 11	144 to 150	15
	Authority Level*	151
User Code 12	152 to 158	15
	Authority Level*	159
User Code 13	160 to 166	0
	Authority Level*	167
User Code 14	168 to 174	15
	Authority Level*	175
User Code 15	176 to 182	15
	Authority Level*	183
User Code 16	184 to 190	15
	Authority Level*	191
User Code 17	192 to 198	15
	Authority Level*	199
User Code 18	200 to 206	15
	Authority Level*	207

* See Section 5.2.2 Authority Level Descriptions for User Codes for Authority Level descriptions.

5.2.1 User Codes (continued)

Location	064 to 319	
	Location	Default
User Code 19	208 to 214	15
	Authority Level*	215
User Code 20	216 to 222	15
	Authority Level*	223
User Code 21	224 to 230	15
	Authority Level*	231
User Code 22	232 to 238	15
	Authority Level*	239
User Code 23	240 to 246	15
	Authority Level*	247
User Code 24	248 to 254	15
	Authority Level*	255
User Code 25	256 to 262	0
	Authority Level*	263
User Code 26	264 to 270	15
	Authority Level*	271
User Code 27	272 to 278	15
	Authority Level*	279
User Code 28	280 to 286	15
	Authority Level*	287
User Code 29	288 to 294	15
	Authority Level*	295
User Code 30	296 to 302	15
	Authority Level*	303
User Code 31	304 to 310	15
	Authority Level*	311
User Code 32	312	0
	313 to 318	15
	Authority Level*	319

* See Section 5.2.2 Authority Level Descriptions for User Codes for Authority Level descriptions.

5.2.2 Authority Level Descriptions for User Codes

Authority Level	Description
0	Arm/disarm
1	Arm only
2	Patrolman code
4	Arm/disarm + Code required to isolate
6	Patrolman code + Code required to isolate
8	Master code + Arm/disarm
12	Master code + Arm/disarm + Code required to isolate

5.2.3 Auxiliary Codes

Location	320 to 335	
	Location	Default
Auxiliary Code 1	320 to 326	15
	Authority Level*	327
Auxiliary Code 2	328 to 334	15
	Authority Level*	335

* See Section 5.2.4 Authority Level Descriptions for Auxiliary Codes for Authority Level descriptions.

5.2.4 Authority Level Descriptions for Auxiliary Codes

Authority Level	Description
1	Operate when the system is armed
2	Operate when the system is disarmed
3	Operate when the system is armed or disarmed
4	Operate always as long as no alarm memories are present
5	Operate if armed and no alarm memories are present
6	Operate if disarmed and no alarm memories are present
7	Operate if armed or disarmed and no alarm memories are present

5.2.5 User Code Retries

Location	338
Default	6
0	Unlimited code retries
1 to 15	Number of incorrect code retries

5.3 EOL Resistor Value

Location	339
1	1K
2	1K5
3	2K2
4	3K3
5	3K9
6	4K7
7	5K6
8	6K8
9	10K
10	12K
11	22K
12	Reserved
13	Reserved
14	Reserved
15	Split EOL (3K3/6K8)

5.4 Zones Programming

5.4.1 Day Alarm Zones

Location	336 to 337	
	Location	Default
	336	1
1	Zone 1	
2	Zone 2	
4	Zone 3	
8	Zone 4	
	337	0
1	Zone 5	
2	Zone 6	
4	Zone 7	
8	Zone 8	

5.4.2 Zones

Location	340 to 467	
	Location	Default
Zone 1 (Default = Delay - 1)		
Zone Type	340	2
Zone Options	341	0
Zone Pulse Count	342	0
Zone Pulse Count Time	343	0
Event Code Hundreds Digit	344	1
Event Code Tens Digit	345	3
Event Code Units Digit	346	0
Dialler Channel	347	1
Zone 2 (Default = Handover)		
Zone Type	348	1
Zone Options	349	0
Zone Pulse Count	350	0
Zone Pulse Count Time	351	0
Event Code Hundreds Digit	352	1
Event Code Tens Digit	353	3
Event Code Units Digit	354	0
Dialler Channel	355	1
Zone 3 (Default = Handover)		
Zone Type	356	1
Zone Options	357	0
Zone Pulse Count	358	0
Zone Pulse Count Time	359	0
Event Code Hundreds Digit	360	1
Event Code Tens Digit	361	3
Event Code Units Digit	362	0
Dialler Channel	363	1
Zone 4 (Default = Handover)		
Zone Type	364	1
Zone Options	365	0
Zone Pulse Count	366	0
Zone Pulse Count Time	367	0
Event Code Hundreds Digit	368	1
Event Code Tens Digit	369	3
Event Code Units Digit	370	0
Dialler Channel	371	1
Zone 5 (Default = Handover)		
Zone Type	372	1
Zone Options	373	0
Zone Pulse Count	374	0
Zone Pulse Count Time	375	0
Event Code Hundreds Digit	376	1
Event Code Tens Digit	377	3
Event Code Units Digit	378	0
Dialler Channel	379	1

5.4.2 Zones (continued)

Location	340 to 467	
	Location	Default
Zone 6 (Default = Instant)		
Zone Type	380	0
Zone Options	381	0
Zone Pulse Count	382	0
Zone Pulse Count Time	383	0
Event Code Hundreds Digit	384	1
Event Code Tens Digit	385	3
Event Code Units Digit	386	0
Dialler Channel	387	1
Zone 7 (Default = Instant)		
Zone Type	388	0
Zone Options	389	0
Zone Pulse Count	390	0
Zone Pulse Count Time	391	0
Event Code Hundreds Digit	392	1
Event Code Tens Digit	393	3
Event Code Units Digit	394	0
Dialler Channel	395	1
Zone 8 (Default = 24 hr. Burglary)		
Zone Type	396	12
Zone Options	397	0
Zone Pulse Count	398	0
Zone Pulse Count Time	399	0
Event Code Hundreds Digit	400	1
Event Code Tens Digit	401	3
Event Code Units Digit	402	3
Dialler Channel	403	1
Zone 9 (Default = Instant)		
Zone Type	404	0
Zone Options	405	0
Zone Pulse Count	406	0
Zone Pulse Count Time	407	0
Event Code Hundreds Digit	408	1
Event Code Tens Digit	409	3
Event Code Units Digit	410	0
Dialler Channel	411	1
Zone 10 (Default = Instant)		
Zone Type	412	0
Zone Options	413	0
Zone Pulse Count	414	0
Zone Pulse Count Time	415	0
Event Code Hundreds Digit	416	1
Event Code Tens Digit	417	3
Event Code Units Digit	418	0
Dialler Channel	419	1

5.4.2 Zones (continued)

Location	340 to 467	
	Location	Default
Zone 11 (Default = Instant)		
Zone Type	420	0
Zone Options	421	0
Zone Pulse Count	422	0
Zone Pulse Count Time	423	0
Event Code Hundreds Digit	424	1
Event Code Tens Digit	425	3
Event Code Units Digit	426	0
Dialler Channel	427	1
Zone 12 (Default = Instant)		
Zone Type	428	0
Zone Options	429	0
Zone Pulse Count	430	0
Zone Pulse Count Time	431	0
Event Code Hundreds Digit	432	1
Event Code Tens Digit	433	3
Event Code Units Digit	434	0
Dialler Channel	435	1
Zone 13 (Default = Instant)		
Zone Type	436	0
Zone Options	437	0
Zone Pulse Count	438	0
Zone Pulse Count Time	439	0
Event Code Hundreds Digit	440	1
Event Code Tens Digit	441	3
Event Code Units Digit	442	0
Dialler Channel	443	1
Zone 14 (Default = Instant)		
Zone Type	444	0
Zone Options	445	0
Zone Pulse Count	446	0
Zone Pulse Count Time	447	0
Event Code Hundreds Digit	448	1
Event Code Tens Digit	449	3
Event Code Units Digit	450	0
Dialler Channel	451	1
Zone 15 (Default = Instant)		
Zone Type	452	0
Zone Options	453	0
Zone Pulse Count	454	0
Zone Pulse Count Time	455	0
Event Code Hundreds Digit	456	1
Event Code Tens Digit	457	3
Event Code Units Digit	458	0
Dialler Channel	459	1

5.4.2 Zones (continued)

Location	340 to 467	
	Location	Default
Zone 16 (Default = Instant)		
Zone Type	460	0
Zone Options	461	0
Zone Pulse Count	462	0
Zone Pulse Count Time	463	0
Event Code Hundreds Digit	464	1
Event Code Tens Digit	465	3
Event Code Units Digit	466	0
Dialler Channel	467	1

5.4.3 Zone Types

Zone Type	Description
0	Instant
1	Handover
2	Delay-1
3	Delay-2
4	Delay-3
5	Delay-4
6	Instant (auto isolated in STAY Mode 1)
7	Handover (auto isolated in STAY Mode 1)
8	Delay-1 (auto isolated in STAY Mode 1)
9	Delay-2 (auto isolated in STAY Mode 1)
10	Delay-3 (auto isolated in STAY Mode 1)
11	Delay-4 (auto isolated in STAY Mode 1)
12	24-hour burglary
13	24-hour fire
14	Chime
15	Not used

5.4.4 Zone Options

Option	Description
1	Lockout siren
2	Lockout dialler
4	Silent alarm
8	Sensor watch

5.4.5 Dialler Channel

Option	Description
1	Group 1 (Area 1)
2	Group 2 (Area 2)
3	Group 3 (Area 3)
4	Group 4 (Area 4)

5.4.6 Zone Pulse Count

Use to program the number of pulses (0 to 15) needed to register within the pulse count time to activate an alarm.

5.4.7 Zone Pulse Count Time

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

5.4.8 Event Code

The three-digit event code describes the zone function when reporting in Contact ID format (for example, entry/exit, tamper, perimeter, and so on). Refer to the *Installation Manual* for a full list of available Contact ID codes. When the system reports in a format other than Contact ID, the event code is programmed as follows:

- Hundreds Digit = Alarm Restore Report (0 = Alarm Restore Disabled)
- Tens Digit = Alarm Report
- Units Digit = Channel Code (0 = Disabled)

5.4.9 Zone Bypass (Zone 1 to 8)

Location	468 to 469	
	Location	Default
Bypass Report	468	9
Bypass Restore Report	469	9

5.4.10 Zone Bypass (Zone 9 to 16)

Location	470 to 471	
	Location	Default
Bypass Report	470	9
Bypass Restore Report	471	9

5.4.11 Zone Trouble (Zone 1 to 8)

Location	472 to 473	
	Location	Default
Trouble Report	472	9
Trouble Restore Report	473	9

5.4.12 Zone Trouble (Zone 9 to 16)

Location	474 to 475	
	Location	Default
Trouble Report	474	9
Trouble Restore Report	475	9

5.5 Codepad Programming

5.5.1 Codepad Duress

Location 476 to 479		
	Location	Default
Contact ID Event Code		
Hundreds	476	1
Tens	477	2
Units	478	1
Dialler Channel	479	1

5.5.2 Codepad Panic

Location 480 to 483		
	Location	Default
Contact ID Event Code		
Hundreds	480	1
Tens	481	2
Units	482	0
Dialler Channel	483	1

5.5.3 Access Denied (Code Retries)

Location 484 to 487		
	Location	Default
Contact ID Event Code		
Hundreds	484	4
Tens	485	2
Units	486	1
Dialler Channel	487	1

5.5.4 Codepad Lockout Time

Location 640 to 641		
	Location	Default
Increments of 1 seconds (0 seconds to 15 seconds)	640	0
Increments of 16 seconds (0 seconds to 240 seconds)	641	0

5.6 AC Fail

Location 488 to 491		
	Location	Default
Contact ID Event Code		
Hundreds	488	3
Tens	489	0
Units	490	1
Dialler Channel	491	1

5.7 Low Battery

Location 492 to 495		
	Location	Default
Contact ID Event Code		
Hundreds	492	3
Tens	493	0
Units	494	9
Dialler Channel	495	1

5.8 Program Altered Code

Location 496 to 499		
	Location	Default
Contact ID Event Code		
Hundreds	496	3
Tens	497	0
Units	498	6
Dialler Channel	499	0

5.9 Sensor Watch (V1.10 to V1.31, V1.32)

Location 500 to 503 (V1.10 to V1.31)		
	Location	Default
Contact ID Event Code		
Hundreds	500	3
Tens	501	8
Units	502	3
Dialler Channel	503	1

Location 500 to 503 (V1.32)		
	Location	Default
Contact ID Event Code		
Hundreds	500	3
Tens	501	0
Units	502	7
Dialler Channel	503	1

5.10 Reports Programming

5.10.1 Open/Close Reports for Area 1

Location 504 to 505		
	Location	Default
Open Report	504	8
Close Report	505	9

5.10.2 Test Report Time (Automatic)

Location 506 to 513		
	Location	Default
Hour of day (tens digit)	506	0
Hour of day (units digit)	507	0
Minute of day (tens digit)	508	0
Minute of day (units digit)	509	0
Repeat interval (tens digit)	510	0
Repeat interval (units digit)	511	0
Expansion code	512	9
Test Report options	513	0
1 Test Reports Only When Armed		
2 Test Reports On All Areas		

5.11 PET Pager Programming

5.11.1 PET Pager Network Password

Location	514 to 529	
	Location	Default
	514	7
	515	0
	516	6
	517	1
	518	7
	519	3
	520	7
	521	3
	522	7
	523	7
	524	6
	525	4
	526 to 529	0

Telecom expects to see the password "passwd" sent before the message is transmitted. The password is programmed using ASCII text.

5.11.2 PET Pager ID Number

The Pager ID Number locations store the unique number that allows the network to identify individual pagers. When programming the system to report using SMS messaging to a mobile phone, enter the mobile phone number as the PET pager ID number. To program the Pager ID Number, enter the decimal characters that represent the Pager ID Number. Remember to substitute a ten for a zero and to terminate the number with a zero as you would if you were programming the telephone numbers.

Location	530 to 539
Default	0

5.12 Outputs Programming

5.12.1 Outputs

Location	540 to 623	
	Location	Default
Output 1 (Default = EDMSAT)		
Event Code	540	0
Event Code	541	0
Polarity	542	0
Time Base	543	0
Time Base Multiplier	544	0
Time Base Multiplier	545	0
Output 2 (Default = EDMSAT)		
Event Code	546	0
Event Code	547	0
Polarity	548	0
Time Base	549	0
Time Base Multiplier	550	0
Time Base Multiplier	551	0

5.12.1 Outputs (continued)

Location	540 to 623	
	Location	Default
Strobe Output (Default = Smoke Detector Reset)		
Event Code	552	0
Event Code	553	1
Polarity	554	10
Time Base	555	2
Time Base Multiplier	556	0
Time Base Multiplier	557	3
Output 4 (Default = Strobe)		
Event Code	558	2
Event Code	559	0
Polarity	560	1
Time Base	561	0
Time Base Multiplier	562	0
Time Base Multiplier	563	0
Output 5 (Default = Sirens Running)		
Event Code	564	1
Event Code	565	15
Polarity	566	1
Time Base	567	0
Time Base Multiplier	568	0
Time Base Multiplier	569	0
Output 6 (Default = Codepad – Entry/Exit + D Alarm)		
Event Code	570	0
Event Code	571	12
Polarity	572	2
Time Base	573	1
Time Base Multiplier	574	0
Time Base Multiplier	575	1
Output 7 (Default = Area 1 in Alarm – Siren)		
Event Code	576	5
Event Code	577	2
Polarity	578	6
Time Base	579	3
Time Base Multiplier	580	1
Time Base Multiplier	581	0
Output 8 (Default = Area 1 in Alarm – Strobe)		
Event Code	582	5
Event Code	583	2
Polarity	584	6
Time Base	585	3
Time Base Multiplier	586	6
Time Base Multiplier	587	0
Output 9 (Default = Area 2 in Alarm – Siren)		
Event Code	588	5
Event Code	589	3
Polarity	590	6
Time Base	591	3
Time Base Multiplier	592	1
Time Base Multiplier	593	0

5.12.1 Outputs (continued)

Location	540 to 623
	Location Default
Output 10 (Default = Area 2 in Alarm – Strobe)	
Event Code	594 5
Event Code	595 3
Polarity	596 6
Time Base	597 3
Time Base Multiplier	598 6
Time Base Multiplier	599 0
Output 11 (Default = Area 3 in Alarm – Siren)	
Event Code	600 5
Event Code	601 4
Polarity	602 6
Time Base	603 3
Time Base Multiplier	604 1
Time Base Multiplier	605 0
Output 12 (Default = Area 3 in Alarm – Strobe)	
Event Code	606 5
Event Code	607 4
Polarity	608 6
Time Base	609 3
Time Base Multiplier	610 6
Time Base Multiplier	611 0
Output 13 (Default = Area 4 in Alarm – Siren)	
Event Code	612 5
Event Code	613 5
Polarity	614 6
Time Base	615 3
Time Base Multiplier	616 1
Time Base Multiplier	617 0
Output 14 (Default = Area 4 in Alarm – Strobe)	
Event Code	618 5
Event Code	619 5
Polarity	620 6
Time Base	621 3
Time Base Multiplier	622 6
Time Base Multiplier	623 0

5.12.2 Output Event Types

Event Code	Description
0 0	EDMSAT – Satellite siren (output 1 only)
0 0	EDMSTU – Secuitel (output 2 only)
0 0	Serial printer (output 3 only)
0 1	System armed
0 2	System disarmed
0 3	Armed in STAY Mode
0 4	Pre-arming alert (V1.10)
0 4	Armed in AWAY (V1.20+)
0 5	Pre-arming alert (V1.20+)
0 6	Exit warning (all zones sealed) and entry warning
0 7	Exit warning
0 8	Exit warning finished
0 9	Kiss-off after end of exit time

5.12.2 Output Event Types (continued)

Event Code	Description
0 10	Reserved
0 11	Entry warning
0 12	Entry warning and day alarm resetting
0 13	Reserved
0 14	Day alarm (resetting)
0 15	Day alarm (latching)
1 0	Day alarm enabled (V1.20+)
1 1	Timed output
1 2	Pre-alert warning for timed output
1 3	Reserved
1 4	AC fail
1 5	Low battery
1 6	Horn speaker fail
1 7	Sensor watch alarm
1 8	Codepad medical alarm (V1.37+)
1 9	Codepad fire alarm (V1.37+)
1 10	Codepad panic alarm
1 11	Codepad duress alarm
1 12	Access denied (code retries)
1 13	Speaker beeps (V1.37+)
1 14	Reserved
1 15	Sirens running
2 0	Strobe
2 1	Silent alarm
2 2	Alarm in STAY Mode
2 3	Alarm in AWAY Mode
2 4	Reserved
2 5	Fire alarm (resetting)
2 6	Fire alarm (latching)
2 7	Fire alarm (verification)
2 8	Remote control 1
2 9	Remote control 2
2 10	Remote control 3
2 11	Remote control 4
2 12	Auxiliary code 1
2 13	Auxiliary code 2
2 14	Telephone line fail
2 15	Communications fail after three attempts
3 0	Communications fail
3 1	Dialler disabled
3 2	Dialler active (on-line)
3 3	Ring detect (V1.37+)
3 4	Reserved
3 5	Mimic zone 1
3 6	Mimic zone 2
3 7	Mimic zone 3
3 8	Mimic zone 4
3 9	Mimic zone 5
3 10	Mimic zone 6
3 11	Mimic zone 7
3 12	Mimic zone 8
3 13	Mimic zone 9

5.12.2 Output Event Types (continued)

Event Code	Description
3 14	Mimic zone 10
3 15	Mimic zone 11
4 0	Mimic zone 12
4 1	Mimic zone 13
4 2	Mimic zone 14
4 3	Mimic zone 15
4 4	Mimic zone 16
4 5	Chime
4 6	Zone not sealed
4 7	Reserved
4 8	Reserved
4 9	Reserved
4 10	Area 1 – zone unsealed
4 11	Area 2 – zone unsealed
4 12	Area 3 – zone unsealed
4 13	Area 4 – zone unsealed
4 14	Reserved
4 15	Reserved
5 0	Reserved
5 1	AC main 50 Hz/60 Hz
5 2	Area 1 in alarm
5 3	Area 2 in alarm
5 4	Area 3 in alarm
5 5	Area 4 in alarm
5 6	Area 1 armed
5 7	Area 2 armed
5 8	Area 3 armed
5 9	Area 4 armed
5 10	Area 1 disarmed
5 11	Area 2 disarmed
5 12	Area 3 disarmed
5 13	Area 4 disarmed
5 14	Any areas armed
5 15	Any areas disarmed
6 0	Area 1 codepad data terminal
6 1	Area 2 codepad data terminal
6 2	Area 3 codepad data terminal
6 3	Area 4 codepad data terminal

5.12.3 Polarity (Modes)

Option	Description
0	Disabled
1	Normally open, going low
2	Normally open, pulsing low
3	Normally open, one shot low
4	Normally open, one shot low (reset)
5	Normally open, one shot low (re-trigger)
6	Normally open, latching low
7	Reserved
8	Normally low, going open
9	Normally low, pulsing open
10	Normally low, one shot open
11	Normally low, one shot open (reset)
12	Normally low, one shot open (re-trigger)
13	Normally low, latching open

5.12.4 Time Base

Option	Description
1	200 ms
2	1 second
3	1 minute
4	1 hour

5.12.5 Time Base Multiplier

Enter a value between 01 and 99.

5.12.6 One Shot Mode

When you program the output polarity as one shot, the time base is multiplied by the time base multiplier. For example, if the time base = 2 and the multiplier = 05, the output operates for 10 seconds.

5.12.7 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. For example, if you want the output to pulse 1 second ON and 5 seconds OFF, you would program the time base as one and the multiplier as five.

5.13 Entry and Exit Time Programming

5.13.1 Entry Time 1

Location	624 to 625	
	Location	Default
Increments of 1 second (0 seconds to 15 seconds)	624	10
Increments of 16 seconds (0 seconds to 240 seconds)	625	0

5.13.2 Entry Time 2

Location	626 to 627	
	Location	Default
Increments of 1 seconds (0 seconds to 15 seconds)	626	4
Increments of 16 seconds (0 seconds to 240 seconds)	627	1

5.13.3 Entry Time 3

Location 628 to 629		
	Location	Default
Increments of 1 seconds (0 seconds to 15 seconds)	628	14
Increments of 16 seconds (0 seconds to 240 seconds)	629	1

5.13.4 Entry Time 4

Location 630 to 631		
	Location	Default
Increments of 1 seconds (0 seconds to 15 seconds)	630	8
Increments of 16 seconds (0 seconds to 240 seconds)	631	2

5.13.5 Exit Time for AWAY Mode

Location 632 to 633		
	Location	Default
Increments of 1 seconds (0 seconds to 15 seconds)	632	12
Increments of 16 seconds (0 seconds to 240 seconds)	633	3

5.13.6 Entry Time for STAY Mode 1

Location 634 to 635		
	Location	Default
Increments of 1 seconds (0 seconds to 15 seconds)	634	12
Increments of 16 seconds (0 seconds to 240 seconds)	635	3

5.13.7 Entry Time for STAY Mode 2

Location 636 to 637		
	Location	Default
Increments of 1 seconds (0 seconds to 15 seconds)	636	12
Increments of 16 seconds (0 seconds to 240 seconds)	637	3

5.13.8 Entry Guard Time for STAY Modes 1 and 2

Location 638 to 639		
	Location	Default
Increments of 1 seconds (0 seconds to 15 seconds)	638	12
Increments of 16 seconds (0 seconds to 240 seconds)	639	3

5.14 Sensor Watch Time

Location 642 to 643		
	Location	Default
Increments of 1 seconds (0 seconds to 15 seconds)	642	0
Increments of 16 seconds (0 seconds to 240 seconds)	643	0

5.15 System Date (V1.10, V1.20+)

Location 644 to 649 (V1.10)		
	Location	Default
Day of the week (Sun = 1, Sat = 2)	644	1
Month of the year (Jan = 1, Dec = 12)	645	1
Day of the month (tens digit)	646	0
Day of the month (units digit)	647	1
Current year (tens digit)	648	9
Current year (units digit)	649	5

Location 644 to 649 (V1.20+)		
	Location	Default
Day of the month (tens digit)	644	0
Day of the month (units digit)	645	1
Month of the year (tens digit)	646	0
Month of the year (units digit)	647	1
Current year (tens digit)	648	9
Current year (units digit)	649	5

5.16 Auto Arming Time Programming

5.16.1 Auto Arming Time

Location 650 to 653		
	Location	Default
Hour of the day (tens digit)	650	0
Hour of the day (units digit)	651	0
Minute of the day (tens digit)	652	0
Minute of the day (units digit)	653	0

5.16.2 Auto Arming Pre-Alert Time

Location 654		
Default	5	
0	No pre-alert time	
1 to 15	Pre-alert time in minutes	

5.16.3 Time Output Pre-Alert Time

Location 655		
Default	5	
0	No pre-alert time	
1 to 15	Pre-alert time in minutes	

5.16.4 Auto Operation of the Timed Output

Location 656 to 659		
	Location	Default
Hour of the day (tens digit)	656	0
Hour of the day (units digit)	657	0
Minute of the day (tens digit)	658	0
Minute of the day (units digit)	659	0

5.17 Siren Programming

5.17.1 Siren Run Time (V1.10 to V2.03, V2.04+)

Location	660 (V1.10 to V2.03)
Default	10
0	No siren time
1 to 15	Siren time in minutes
Location	660 (V2.04+)
Default	5
0	No siren time
1 to 15	Siren time in minutes

5.17.2 Siren Sound Rate

Location	661
Default	7
0	Slowest frequency
15	Fastest frequency

5.17.3 Swinger Shutdown Count for Siren and Dialler (V1.10 to V1.37, V1.40)

Location	662 (V1.10 to V1.37)
Default	0
0	No lockout
1 to 15	Number of times siren/dialler operate until lockout
Location	662 (V1.40)
Default	0
0	No lockout
1 to 15	Number of times siren operate until lockout

5.18 Dialler Options Programming

5.18.1 Dialler Options 1

Location	663
1	Dialler reporting functions allowed (disabled in V2.00, also disable Safecom)
2	Remote arming via telephone allowed
4	Upload/download via alarm link allowed
8	Terminate alarm link session on alarm

5.18.2 Dialler Options 2

Location	664
Default	0
1	Open/close reports only after alarm
2	First to open/last to close reporting (partitioned systems only)
4	Open/Close Reports in STAY Mode allowed
8	Answering machine bypass only when armed (V1.31+)

5.19 System Options Programming

5.19.1 System Options 1

Location	665
1	Forced arming allowed
2	Smart lockout allowed
4	Horn speaker monitor
8	Horn speaker beeps allowed

5.19.2 System Options 2

Location	666
1	Keyswitch interface, night arm station, or RE005 installed
2	Handover delay to be sequential
4	Codepad panic to be silent
8	Access denied (code retries/codepad tamper) to be silent

5.19.3 System Options 3

Location	667
Default	0
1	Area 1 codepad connected to main data terminal
2	Modem module required for alarm link operation
4	AC fail after 1 hour (Disabled = after 2 minutes)
8	Pulse count handover allowed

5.19.4 System Options 4 (V1.10 only)

Location	668
Default	0
1	Delay audible alarm until communication complete
2	Reset alarm outputs from any area (partitioned systems only)
4	Auto arm in AWAY mode
8	Auto arm in STAY mode 1

5.19.5 System Options 4 (V1.20+)

Location	668
Default	0
1	Delay audible alarm until communication complete
2	Reset alarm outputs from any area (partitioned systems only)
4	Ignore AC mains fail (V1.30+)
8	Auto arm in STAY Mode 1

5.19.6 System Options 5 (V1.37+)

Location	897
Default	0
1	Send Test Report at end of siren time
2	Power up in disarmed state (re-boot)
4	Internal crystal to keep time (V1.40+)
8	Reserved

5.19.7 System Options 6 (V1.33+)

Location	898
1	Busy tone detection for domestic dialling allowed
2	Kiss-off detection for domestic dialling allowed
4	Extend acknowledge time from 30 seconds to 60 seconds
8	If battery failed, restrict battery test only on arming (V1.35+)

5.20 Consumer Options Programming

5.20.1 Consumer Options 1 (V1.10, V1.20+)

Location	669 (V1.10 only)
1	Entry guard time in STAY Mode
2	Audible alarm in STAY Mode allowed
4	User code required to isolate zones
8	Codepad Extinguish Mode allowed
Location	669 (V1.20+)
1	STAY LED to display day alarm on/off status
2	Audible alarm in STAY Mode allowed
4	AUX LED to display dialler on-line (partitioned codepad only)
8	Codepad Extinguish Mode allowed

5.20.2 Consumer Options 2

Location	670
1	User Code + 0 + AWAY function to arm/disarm all areas allowed
2	Single button arming allowed (AWAY/STAY Modes 1 and 2)
4	Single button disarming allowed (STAY Modes 1 and 2)
8	Alarm reset memory on disarm

5.20.3 DTMF Command Module Options

Location	671
Default	0
1	Access to installer's programming mode allowed
2	Installer code functions allowed
4	Disarming and auxiliary code functions allowed
8	Master code functions allowed

5.20.4 Expansion Board Options (V1.10, V1.20)

Location	672 (V1.10)
Default	0
1	Zone expansion board installed
2	Output expansion board installed
4	Momentary keyswitch input
8	Latching keyswitch input
Location	672 (V1.20)
Default	0
1	Zone expansion board installed
2	Output expansion board installed
3	Momentary keyswitch input
4	Latching keyswitch input
5	Momentary arm in AWAY Mode
6	Momentary arm in STAY Mode 1
7	Momentary arm in STAY Mode 2
8	Momentary disarm
9	Momentary arm area 4
10	Momentary disarm area 4
11	Momentary arm/disarm area 4
12	Latching arm/disarm area 4

5.21 Telephone Line Fail Options

Location	673
Default	0
1	Display FAULT indicator if telephone line fails
2*	Sound alarm when system is armed if telephone line fails
4*	Sound alarm when system is disarmed if telephone line fails
* Options 2 and 4 must be used in conjunction with Option 1 (for example, program a 1, 3, 5, or 7).	

5.22 Open/Close Reports Programming

5.22.1 Open/Close Reports for Area 2

Location	674 to 675	
	Location	Default
Open Report	674	0
Close Report	675	0

5.22.2 Open/Close Reports for Area 3

Location	676 to 677	
	Location	Default
Open Report	676	0
Close Report	677	0

5.22.3 Open/Close Reports for Area 4

Location	678 to 679	
	Location	Default
Open Report	678	0
Close Report	679	0

5.23 Subscriber ID Programming

5.23.1 Subscriber ID Number for Area 2

Location	680 to 683
Default	0

5.23.2 Subscriber ID Number for Area 3

Location	684 to 687
Default	0

5.23.3 Subscriber ID Number for Area 4

Location	688 to 691
Default	0

5.24 Zone Allocations Programming

5.24.1 Zone Allocations for Area 1

Location	692 to 699	
	Location	Default
Zone 1 LED – Area 1 Codepad	692	0
Zone 2 LED – Area 1 Codepad	693	0
Zone 3 LED – Area 1 Codepad	694	0
Zone 4 LED – Area 1 Codepad	695	0
Zone 5 LED – Area 1 Codepad	696	0
Zone 6 LED – Area 1 Codepad	697	0
Zone 7 LED – Area 1 Codepad	698	0
Zone 8 LED – Area 1 Codepad	699	0

5.24.2 Zone Allocations for Area 2

Location 700 to 707		
	Location	Default
Zone 1 LED – Area 2 Codepad	700	0
Zone 2 LED – Area 2 Codepad	701	0
Zone 3 LED – Area 2 Codepad	702	0
Zone 4 LED – Area 2 Codepad	703	0
Zone 5 LED – Area 2 Codepad	704	0
Zone 6 LED – Area 2 Codepad	705	0
Zone 7 LED – Area 2 Codepad	706	0
Zone 8 LED – Area 2 Codepad	707	0

5.24.3 Zone Allocations for Area 3

Location 708 to 715		
	Location	Default
Zone 1 LED – Area 3 Codepad	708	0
Zone 2 LED – Area 3 Codepad	709	0
Zone 3 LED – Area 3 Codepad	710	0
Zone 4 LED – Area 3 Codepad	711	0
Zone 5 LED – Area 3 Codepad	712	0
Zone 6 LED – Area 3 Codepad	713	0
Zone 7 LED – Area 3 Codepad	714	0
Zone 8 LED – Area 3 Codepad	715	0

5.24.4 Zone Allocations for Area 4

Location 716 to 723		
	Location	Default
Zone 1 LED – Area 4 Codepad	716	0
Zone 2 LED – Area 4 Codepad	717	0
Zone 3 LED – Area 4 Codepad	718	0
Zone 4 LED – Area 4 Codepad	719	0
Zone 5 LED – Area 4 Codepad	720	0
Zone 6 LED – Area 4 Codepad	721	0
Zone 7 LED – Area 4 Codepad	722	0
Zone 8 LED – Area 4 Codepad	723	0

5.25 User Code Area Assignment

Location 724 to 755	
User Code 1 to 32	
0	User code not assigned
1	User code assigned to Area 1
2	User code assigned to Area 2
4	User code assigned to Area 3
8	User code assigned to Area 4

5.26 Serial Printer Baud Rate

Location 756	
1	300 baud
2	600 baud
3	1200 baud
4	2400 baud

5.27 Dialler Lockout Count (V1.40+)

Location 757	
Default	0
0	No lockout
1 to 15	Number of times dialler operates until lockout

5.28 Safecom Programming

5.28.1 Safecom – RF Fail (V2.00+)

Location 760 to 763		
	Location	Default
Contact ID Event Code		
Hundreds	760	3
Tens	761	5
Units	762	3
Dialler Channel (Point ID = 30 Hexadecimal/48 decimal)	763	1

5.28.2 Safecom – Telco Fail (V2.00+)

Location 764 to 767		
	Location	Default
Contact ID Event Code		
Hundreds	764	3
Tens	765	5
Units	766	1
Dialler Channel (Point ID = 31 Hex./49 decimal)	767	1

5.28.3 Safecom – RF Jamming (V2.00+)

Location 768 to 771		
	Location	Default
Contact ID Event Code		
Hundreds	768	3
Tens	769	4
Units	770	4
Dialler Channel (Point ID = 32 Hex./50 decimal)	771	1

5.28.4 Safecom – RF Jamming Delay (V2.00+)

Location 772	
Default	0
0	No RF jamming delay
1 to 15	RF jamming delay in minutes

5.28.5 Safecom RF Supervision Time (V2.02+)

Location 773	
Default	10
0	No RF supervision time
1 to 15	RF supervision time in minutes

5.28.6 Safecom Reporting Options (V2.00+)

Location 896	
1	Safecom communication reporting disabled
2	Arming from ST1000 base allowed
4	Disarming from ST100 base allowed
8	Reserved

5.28.7 Safecom Interface Serial Number

The eight-digit serial number of the Safecom interface board can be read in the locations below.

Location 920 to 927	
Default	0

5.29 Ring Burst Time (V2.04, V2.05+)

Location 846 to 847 (V2.04)		
	Location	Default
Increments of 5 ms (0 ms to 75 ms)	846	0
Increments of 80 ms (0 ms to 1200 ms)	847	0

Location 846 to 847 (V2.05+)		
	Location	Default
Increments of 5 ms (0 ms to 75 ms)	846	4
Increments of 80 ms (0 ms to 1200 ms)	847	6

5.30 Carrier Sync Options

Location 899	
Default	9
1 to 15	100 ms to 1.5 seconds (increments of 100 ms)

5.31 Default Options

Location 900	
Default	0
0	Defaulting system allowed
15	Defaulting system disabled

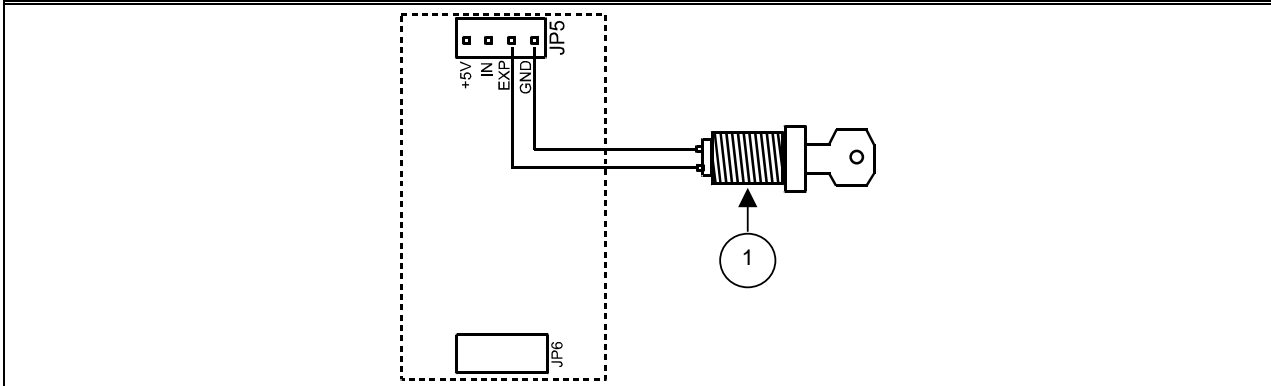
5.32 System Time

Location 901 to 904		
	Location	Default
Hour of the day (tens digit)	901	0
Hour of the day (units digit)	902	0
Minute of the day (tens digit)	903	0
Minute of the day (units digit)	904	0

6. Connections

6.1 Connection for Momentary or Latching Keyswitch

Figure 1: Connection for Momentary or Latching Keyswitch

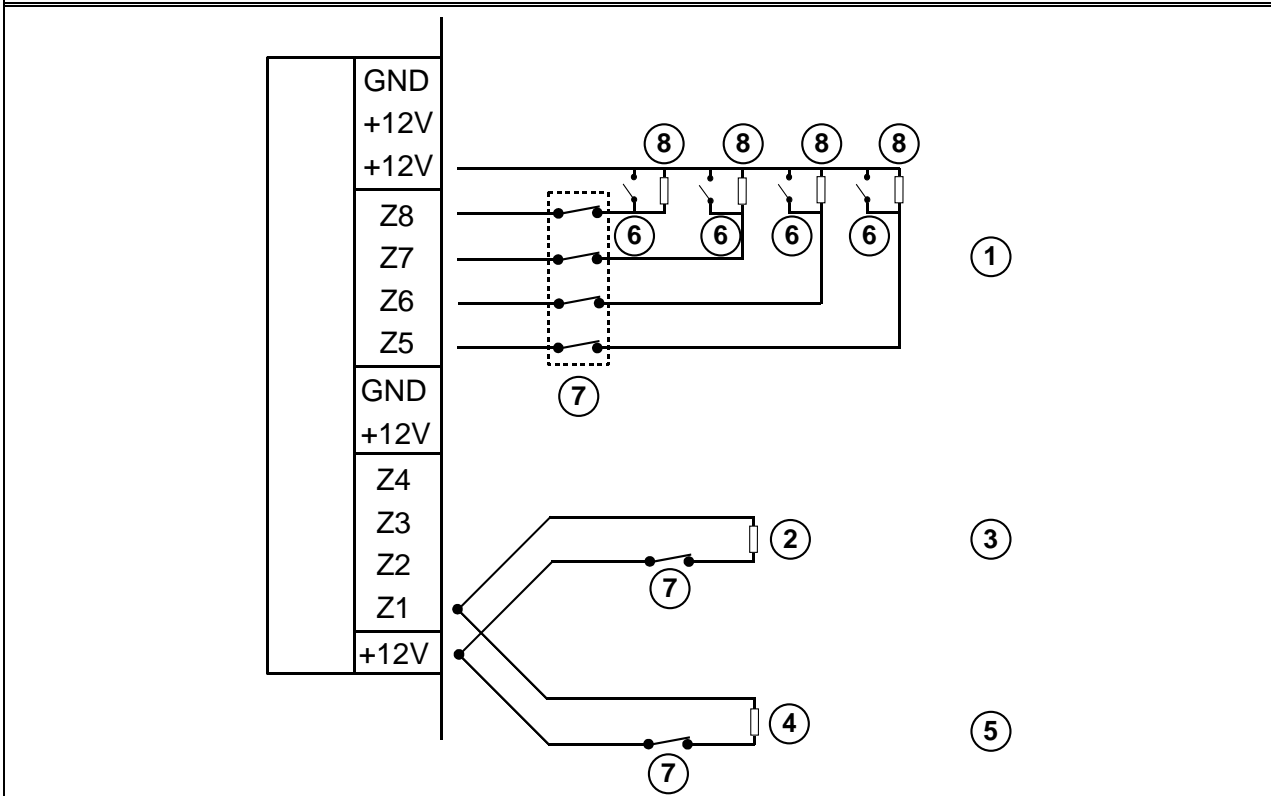


1 = Momentary or latching keyswitch

To enable the connection for a momentary or latching keyswitch on the above diagram, refer to "LOCATION 672" under Expansion Board Type to program these options.

6.2 Connections for Split EOL Resistors for 16 Zone Operation

Figure 2: Connections for Split EOL Resistors for 16 Zone Operation



1 = Standard eight zone (3K3) configuration

2 = 3K3 EOL Zone 1

3 = 16 Zone (3K3/6K8) configuration

4 = 6K8 EOL Zone 9

5 = If N/O switches are used, both zones will trip if either N/O switch is closed.

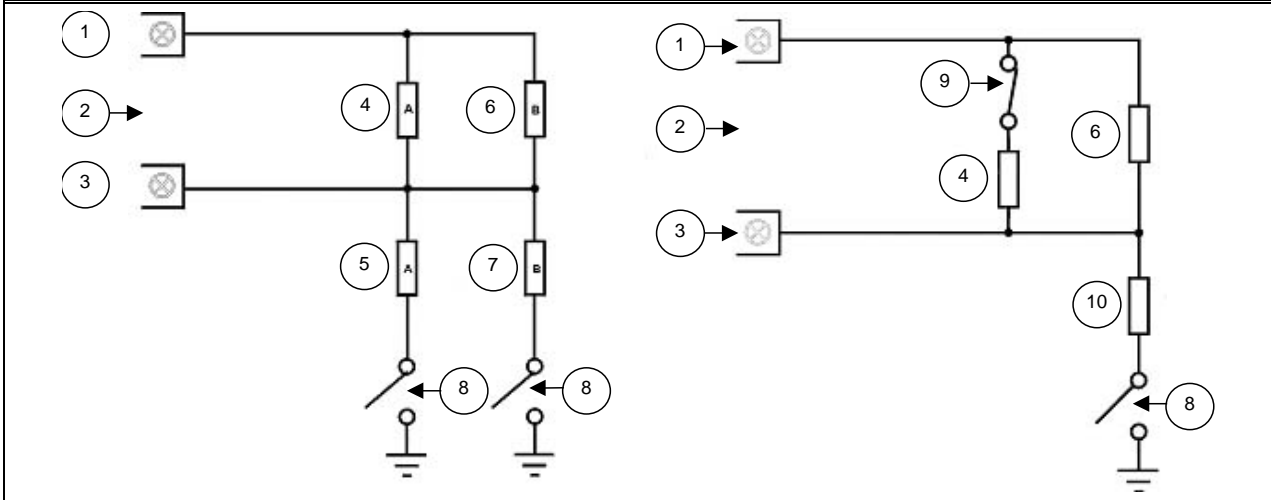
6 = N/O

7 = N/C

8 = EOL

6.3 Connections for Split EOL Resistors for 16 Zone Operation Using N/O Contacts

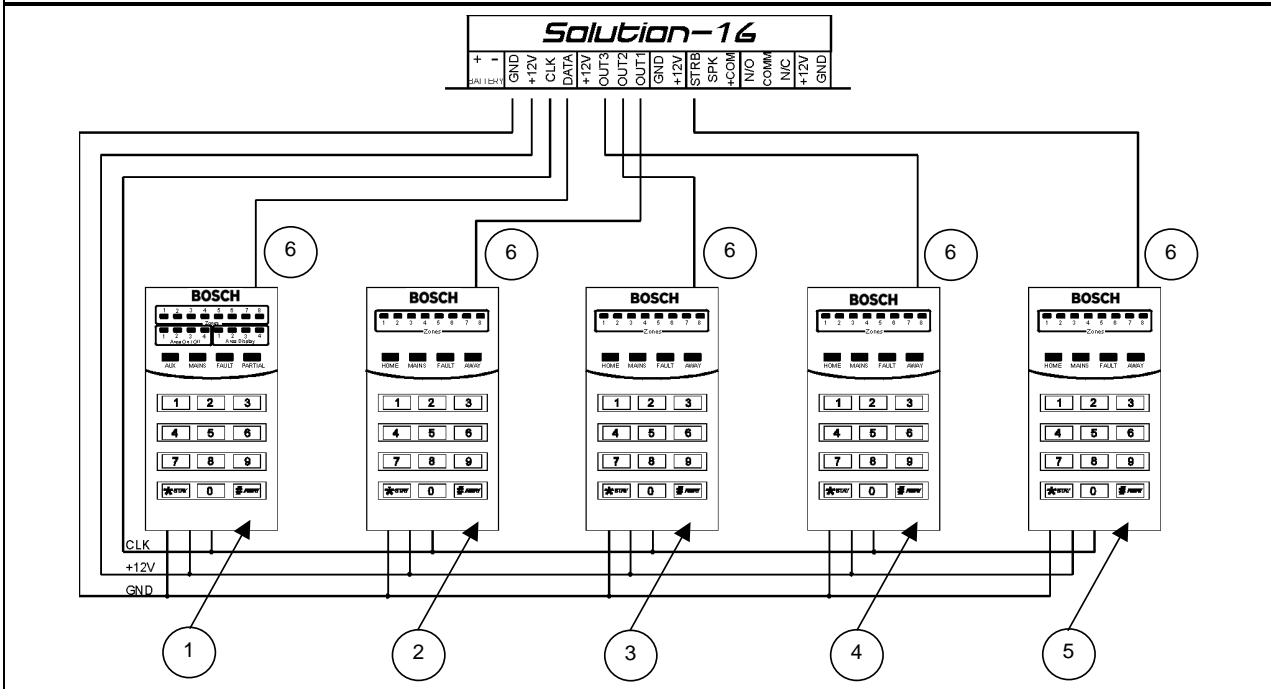
Figure 3: Connections for Split EOL Resistors for 16 Zone Operation Using N/O Contacts



- | | |
|----------------|-------------|
| 1 = +12 V | 6 = EOL 6K8 |
| 2 = Zone input | 7 = EOL 4K7 |
| 3 = Zone | 8 = N/O |
| 4 = EOL 3K3 | 9 = N/C |
| 5 = EOL 1K | 10 = 4K7 |

6.4 Codepad Connections (Partitioning)

Figure 4: Code Connections (Partitioning) – Master Plus Four Areas

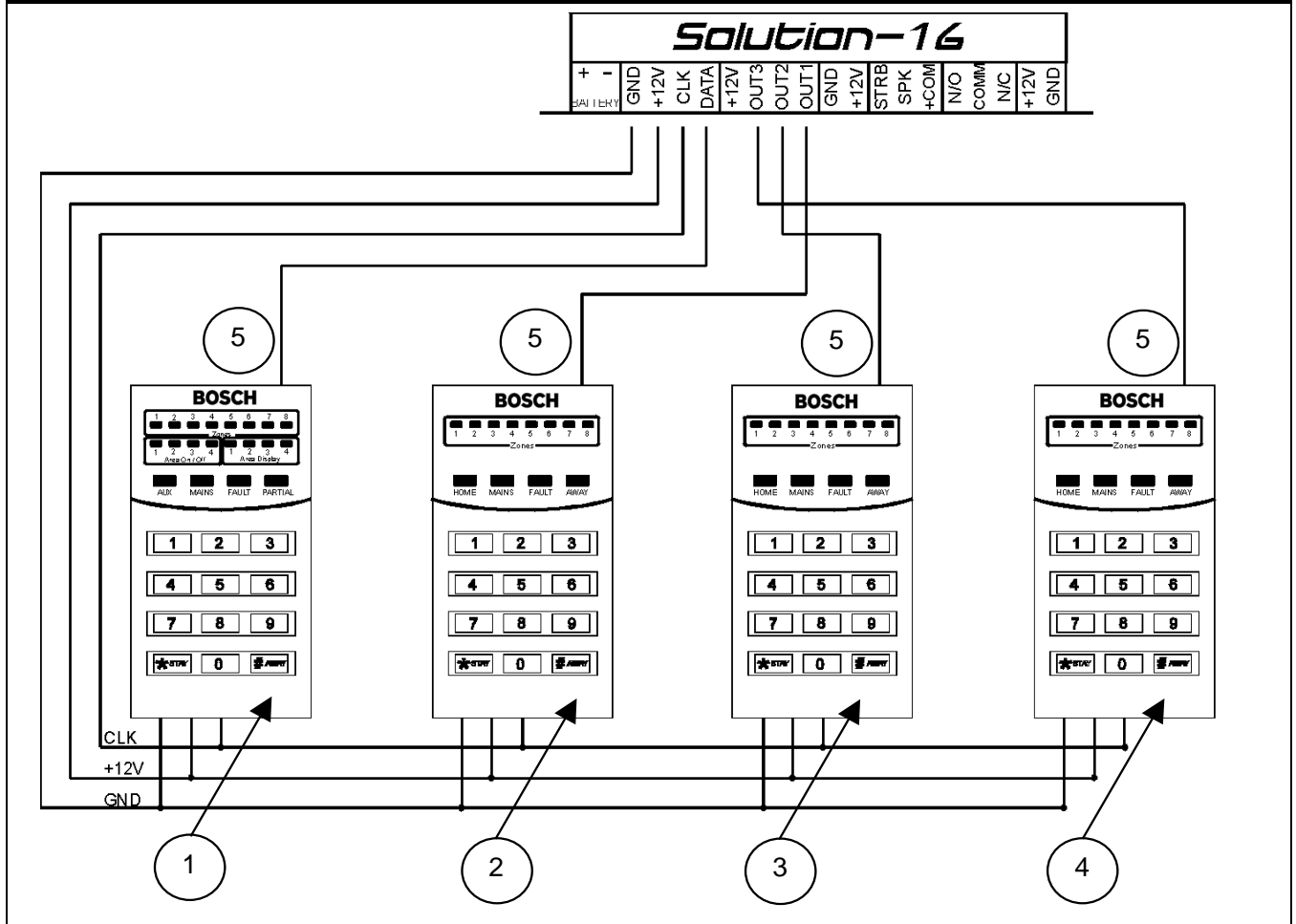


- 1 = Master codepad
- 2 = Area 1 codepad
- 3 = Area 2 codepad
- 4 = Area 3 codepad
- 5 = Area 4 codepad
- 6 = DATA

Program the following locations for the Area Addressable (CP500A) codepads to function correctly:

- OUT1 – Location 540 = 6; Location 541 = 0
- OUT2 – Location 546 = 6; Location 547 = 1
- OUT3 – Location 552 = 6; Location 553 = 2
- OUT4 – Location 558 = 6; Location 559 = 3

Figure 5: Code Connections (Partitioning) –Four Areas



- 1 = Area 1 codepad
- 2 = Area 2 codepad
- 3 = Area 3 codepad
- 4 = Area 4 codepad
- 5 = DATA

Program the following locations for the Area Addressable (CP500A) codepads to function correctly:

Location 667, enable Option 1 – Main codepad to display data for Area 1.

OUT1 – Location 540 = 6; Location 541 = 1

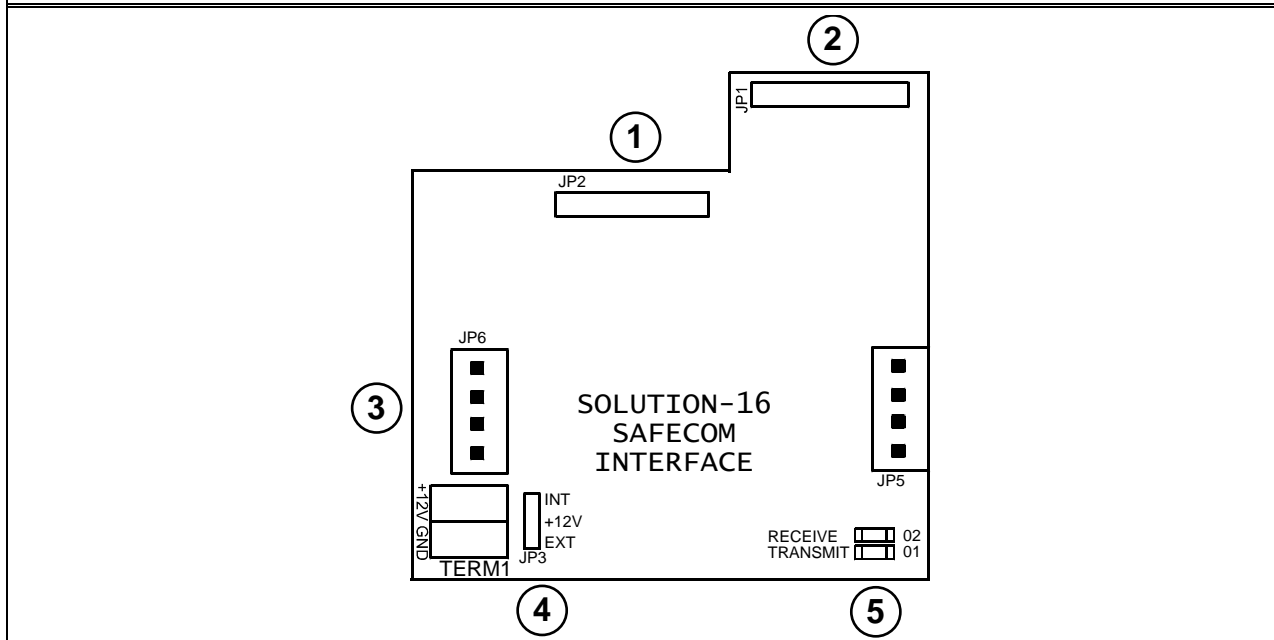
OUT2 – Location 546 = 6; Location 547 = 2

OUT3 – Location 552 = 6; Location 553 = 3

7. Wiring Diagrams

7.1 Safecom Interface

Figure 6: Safecom Interface



1 = Pins for radio connection

2 = Connect to command module's terminal

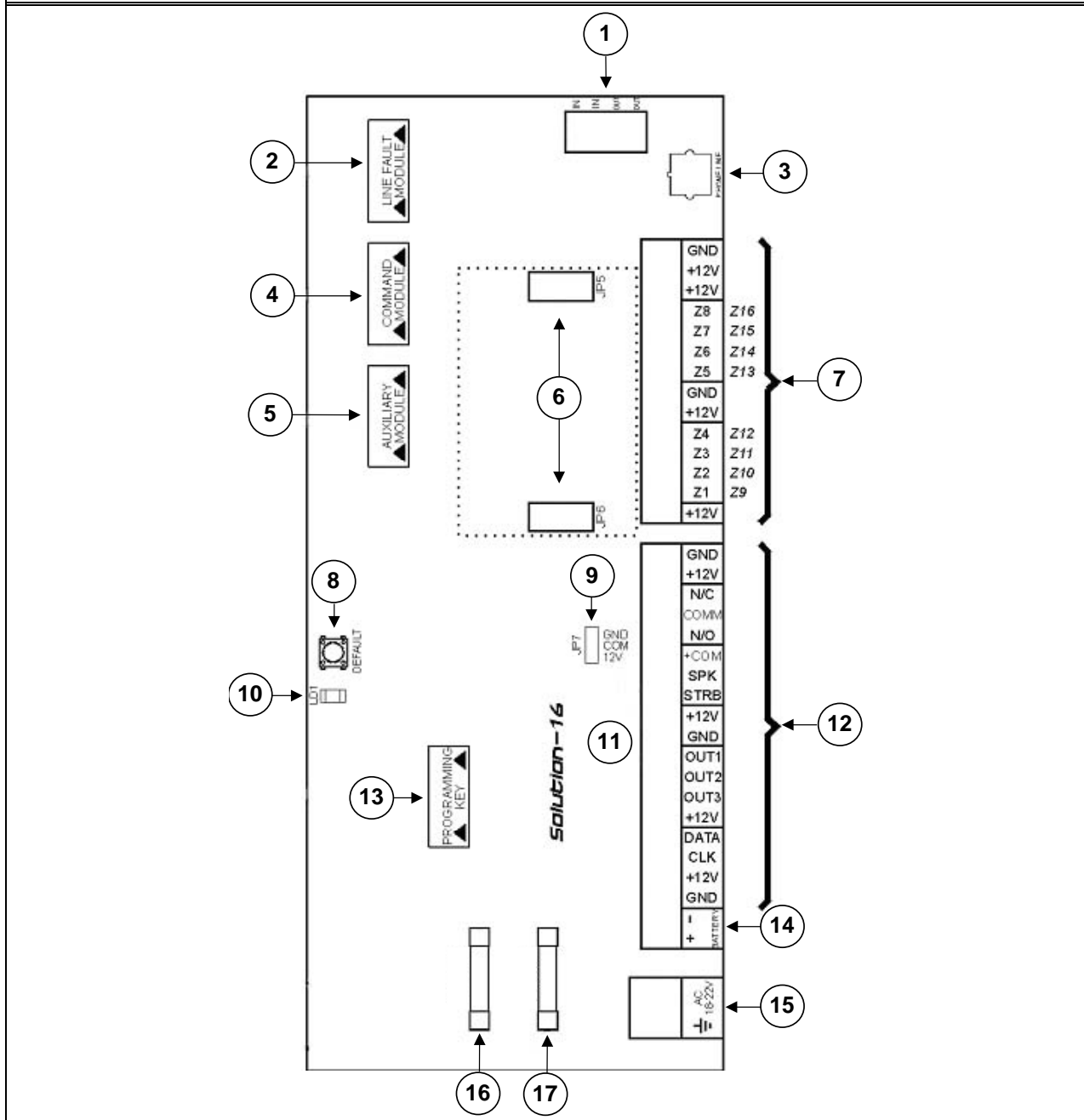
3 = Connecting pins for expander/channel output board

4 = Power supply select. Join +12 V with INT for power from PCB or EXT for external +12 V power.

5 = Data transmission LED. Indicates the data receiving and transmitting.

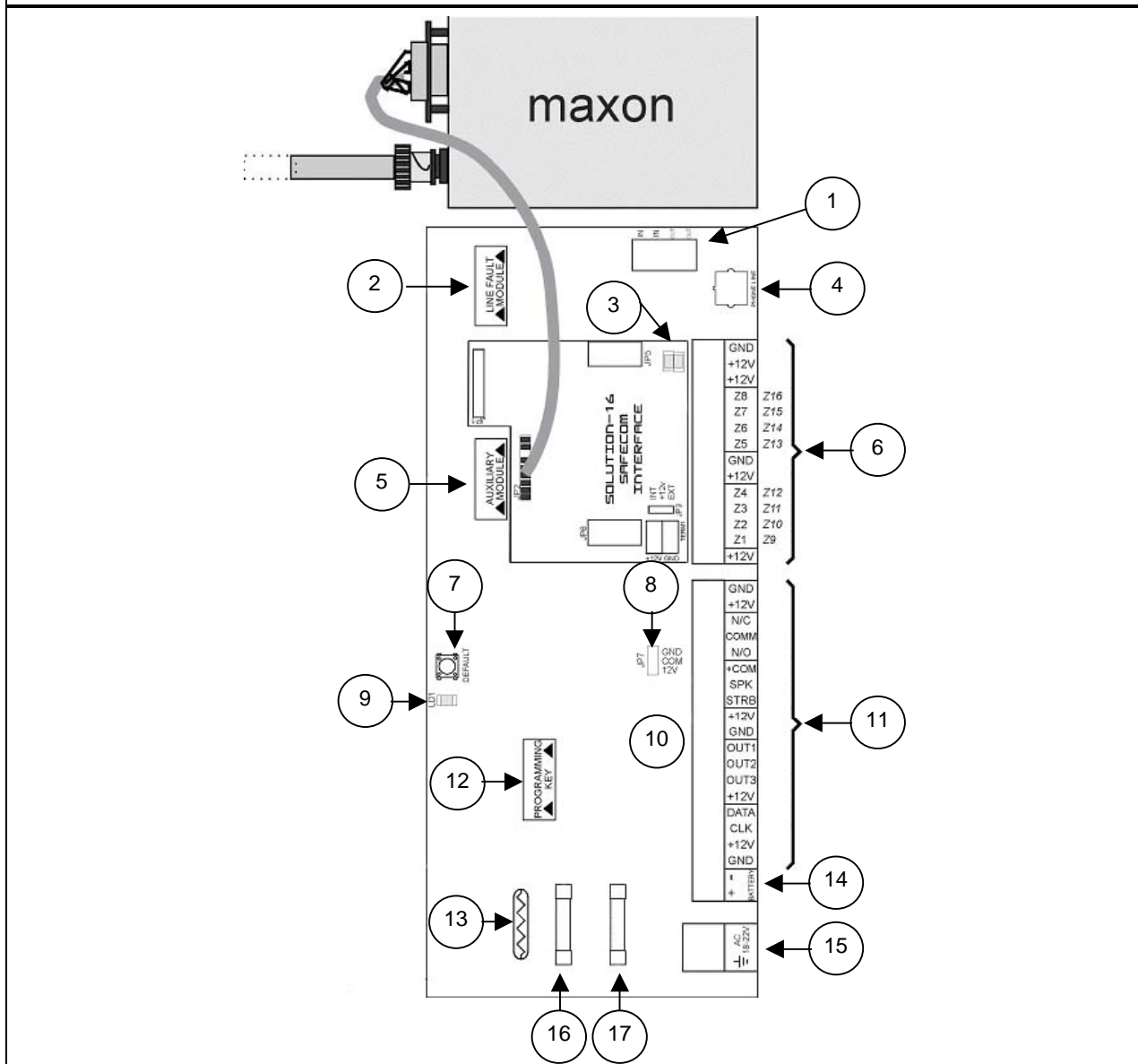
7.2 Component Overlays

Figure 7: Component Overlay 1



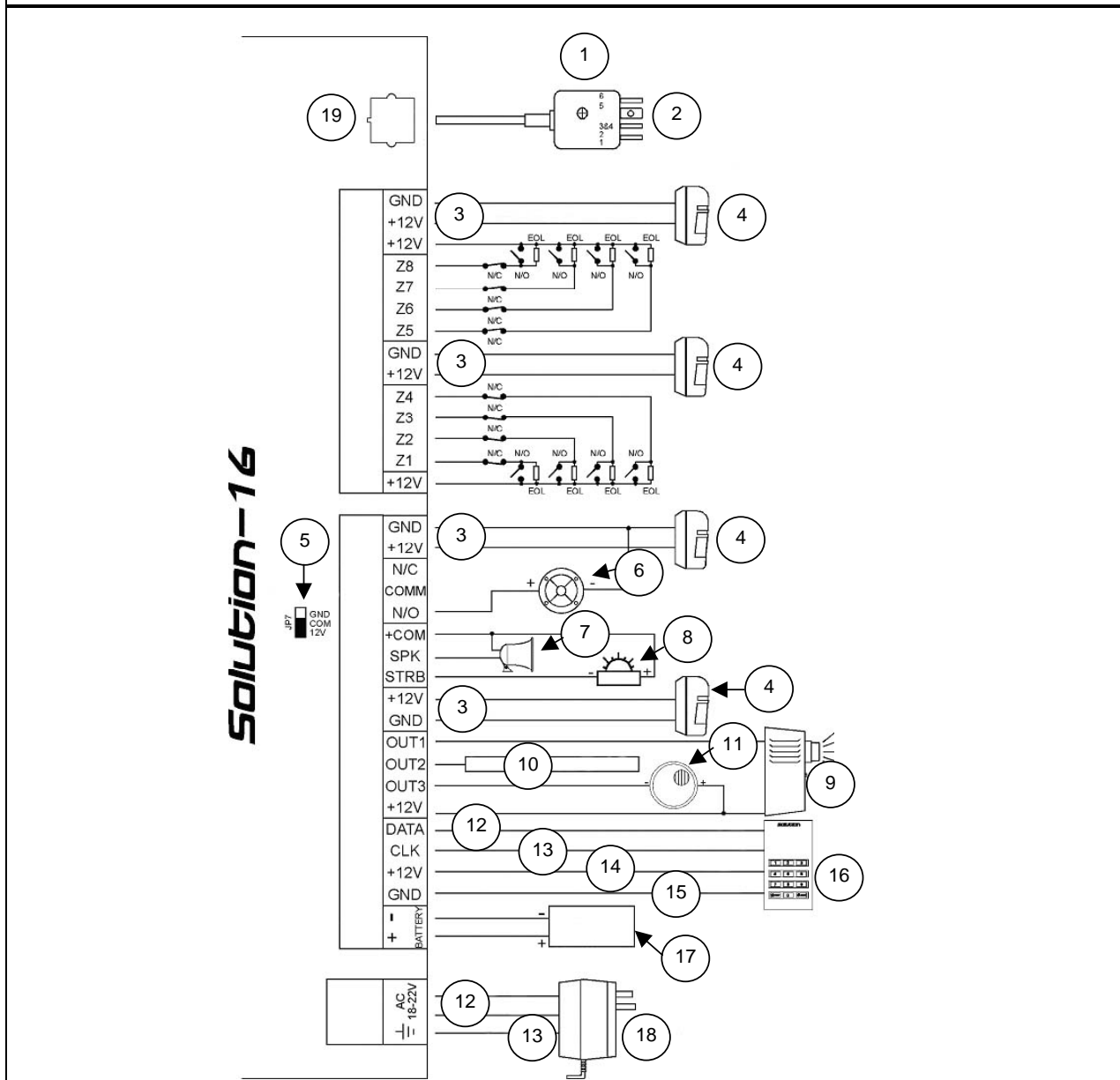
- 1 = Termination for phone line
- 2 = Line fault module (note polarity)
- 3 = Socket for telecom lead connection
- 4 = DTMF command module (note polarity)
- 5 = Voice module, modem module, or phone amplifier (not polarity)
- 6 = Optional 8 zone expander/8 channel output board plugs
- 7 = Zone termination strip
- 8 = Default switch
- 9 = Relay contact
- 10 = Battery consumption LED (When illuminated, indicates power is being drawn from the battery.)
- 11 = Remove link for dry contact
- 12 = Output termination strip
- 13 = Programming key or programmer plugs
- 14 = Battery input
- 15 = Plug pack input (Bosch Security Systems TF008)
- 16 = 3 A battery fuse
- 17 = 1 A accessory fuse (for external equipment)

Figure 8: Component Overlay 2



- 1 = Termination for phone line
- 2 = Line fault module (note polarity)
- 3 = Receive/Transmit
- 4 = Socket for telecom lead connection
- 5 = Voice module, modem module, phone amplifier, or direct link cable (note polarity)
- 6 = Zone termination strip
- 7 = Default switch
- 8 = Relay contact
- 9 = Battery consumption LED (when illuminated, indicates power is being drawn from the battery)
- 10 = Remove link for dry contact
- 11 = Output termination strip
- 12 = Programming key or programmer plugs in here
- 13 = Battery charge globe remains fully illuminated until the battery is 100% charged
- 14 = Battery input
- 15 = Plug pack input (Bosch Security Systems TF008)
- 16 = 3 A battery fuse
- 17 = 1 A accessory fuse (for external equipment)

Figure 9: Solution-16 Wiring Diagram



- 1 = 605 Plug
- 2 = 1 (Green) - Internal phone line
5 (Yellow) - Internal phone line
2 (Black) - Telecom line (street)
6 (Red) - Telecom line (street)
3 and 4 - Not used
- 3 = Power to external equipment: 12 V, 1 A
- 4 = Detector
- 5 = Link between 12 V and COM
- 6 = Siren or screamer
- 7 = 8 Ω speaker
- 8 = Strobe
- 9 = Satellite Siren
- 10 = Data output for Bosch Security Systems
- 11 = Smoke detector
- 12 = Yellow
- 13 = Green
- 14 = Red
- 15 = Black
- 16 = Codepad
- 17 = Battery 12 V 6.5 Ah
- 18 = 18 VAC 1.3 A plug pack (TF008)
- 19 = Phone line

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