

DESIGN & MANUFACTURING

Solution-8 Quick Reference Guide

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Solution-8 Quick Reference Guide

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This documentation is provided to suit Solution-8 (CC800/LP800)

Firmware Revision 1.00 - 3.00 Hardware Version A Alarm Link Form - VERSION 1 = SOL8_V1 VERSION 2 = SOL8_V2 VERSION 3 = SOL8_V3

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Introduction

Before using the control panel for the first time, we suggest that you read the section in this Quick Reference Guide called "Programming Using The Codepad" to familiarise yourself with the basic programming methodology.

This Quick Reference Guide is supplied to provide installers with enough basic information to wire, configure and operate the control panel. Due to the control panels many programmable features and options, we suggest that you obtain the complete Installation Manual which provides detailed information on all system options and functions as well as detailed information on the numerous programming methods.

Programming

The programming options of this control panel are stored in a non volatile EPROM. This memory will hold all the relevant configuration and user specific data even during a total power loss.

The data retention time is as long as ten years without power, therefore no reprogramming will be required after powering the control panel down.

The data can be altered as many times as required without the need for any additional specialised equipment. This memory is laid out in numerous locations each of which holds the data for a specific function.

In general, the entire programming sequence will consist of nominating the location number and then entering or altering the required data. You will repeat this procedure until all the data has been altered to suit your requirements. The factory default settings have been selected for the control panel to report in Ademco High Speed.

Note: '15' is the maximum value that can be programmed into any location.

There are two programming modes. The Installer's Programming Mode and the Operators Programming Mode. Both programming modes have individual access codes and these two codes must always be programmed differently. The Master Code, as well as being able to arm and disarm the system gives access to the Operators Programming Mode. The Installer's Code only gives access to the Installer's Programming Mode and does NOT arm and disarm the system.

Programming of the Solution-8 control panel can be carried out via any of the following four methods.

Remote Codepad
Hand Held Programmer (CC814)

Programming Key (CC810)

Alarm Link Upload/Download Software (CC816)

Note: For further information on the different programming options available for the *Solution-8* control panel, refer to the Installation Manual (MA800I).

Programming Using The Remote Codepad

The control panel must be in a disarmed state with no flashing zone alarm memories to access Installer's Programming Mode. This can be achieved by entering the <u>MASTER CODE</u> followed by the <u>AWAY</u> button. The factory default Master Code is 2580. If the control panel has become armed in the AWAY mode, simply enter the <u>MASTER CODE</u> followed by the <u>AWAY</u> button again to disarm the control panel.

To access the Installer's Programming Mode, enter the four digit **INSTALLER CODE** followed by the **AWAY** button. The factory default Installer Code is 1234. Three beeps will be heard and both the AWAY and the STAY indicators will flash simultaneously. The combination of the MAINS and ZONE indicators will indicate the data stored in the first location of the Primary Telephone Number (LOCATION 000).

Data Value	Zone 1 LED	Zone 2 LED	Zone 3 LED	Zone 4 LED	Zone 5 LED	Zone 6 LED	Zone 7 LED	Zone 8 LED	FAULT LED
0									
1	√								
2		✓							
3			✓						
4				√					
5					✓				
6						~			
7							~		
8								\checkmark	
9									\checkmark
10	✓								\checkmark
11		✓							\checkmark
12			✓						\checkmark
13				✓					✓
14					✓				\checkmark
15						\checkmark			\checkmark

Zone Indicators When Programming

Example

To move to a particular programming location, enter the location number required followed by the AWAY button. The data of the new location will now be displayed.

To move to the next location, press the AWAY button. This will step you to the next location and the data in that location will be displayed via the zone LED indicators.

If you press the **STAY** button without previously entering a location number, the system will step back one location. To change data in the current location, enter the new value followed by the **STAY** button. This will store the new data into the location and still leave you positioned at the same location.

To proceed to the next location, press the AWAY button. The next locations data will now be displayed.

To exit the Installer's Programming Mode, enter the command 260 followed by the AWAY button. Two beeps will be heard and the system will return to normal.

For a more detailed explanation, refer to the *Solution-8* Installation Manual (MA800I)

Note: The valid address range for a *Solution-8* control panel is 000 to 253.

Quick Start

The following steps will enable you to use the *Solution-8* control panel with the default values as set at the factory. The default settings allow the panel to communicate in Ademco High Speed Format.

1. Connect AC power to the unit.

The MAINS indicator will remain on as will the AWAY indicator. The unit is now in the armed state.

- **2.** The battery should now be connected.
- 3. Enter the default Master Code 2580 followed by the AWAY button. The AWAY indicator will extinguish. The control panel is now in the disarmed state. Installer's Programming Mode can now be accessed.
- 4. Enter the factory default Installer Code 1234 followed by the AWAY button. The STAY and AWAY indicator's will now flash simultaneously. Refer to "LOCATION 56 59" for the locations of the factory default Installer's Code.
- 5. Enter the primary, secondary telephone numbers and the Subscriber ID Number.
- 6. Set the time for the test reports if this option is required. Any other programming changes required can also be programmed, otherwise the programmed factory default settings will be used.
- 7. Enter command 260 followed by the AWAY button to exit Installer's Programming Mode. The panel will return to the disarmed state and is now ready for use. Refer to "Installer's Programming Commands" on page 6 for further commands that can be performed during access of Installer's Programming Mode.

Zone Default Settings

The default zone settings are as listed in the table below.

Zone No.	Zone Type
1	Delay
2 - 7	Instant
8	24 Hour

Note: The example given in this Quick Reference Guide is a simplified description of how to configure the panel. The system offers many other programmable features which are described in greater detail in the *Solution-8* Installation Manual (MA800I).

Installer's Programming Commands

There are several commands that can be invoked to perform the functions as listed below. These commands only operate when you have accessed the Installers Programming Mode. To invoke the command required, enter the corresponding numerical code followed by the \boxed{AWAY} button.

Command	Function
257	Random Select User Codes (Version 2 Onwards)
258	Enable and Disable Zone Status Mode
259	Test Programming Key
260	Exit Installer's Programming Mode
261	Reset Control Panel Back To Factory Default Settings
262	Copy The Panel Memory To The Programming Key
263	Copy The Programming Key Data To The Panel Memory
264	Erase Programming Key
265	Communications Monitor Mode (Version 1 Only)
265	Reserved (Version 2 Only)
265	Set Up Domestic Dialling Format (New - Version 3)
266	Enable and Disable Automatic Stepping Of Locations During Programming

Installers Programming Commands

Installer Code Functions - Version 2 Onwards

Installer Code Functions have been added to the Solution-8 control panel. These functions are designed to allow the installer to perform various system tests without the need to know a Master Code.

The **INSTALLER CODE** is entered followed by a **FUNCTION** digit then the **AWAY** button to enter you into a particular mode.

INSTALLER CODE	+	FUNCTION	+	AWAY
	-		•	/

These functions can only be carried out when the control panel is disarmed.

Function	Description					
0	Reserved					
1	Request Print Out Of System Configuration					
2	Set The First Test Report					
3	Event Memory Recall Mode					
4	Walk Test Mode					
5	Satellite Siren Service Mode					
6	Initiate A Modem Call					
7	Turning Telephone Monitor Mode On and Off					
8	Reserved					
9	Send A Test Report					

Installer Code Functions

Master Code Functions

Master Code Functions are designed to allow those users that have the appropriate access level to perform certain functions of a supervisory level. These functions can only be carried out when the system is disarmed.



Function	Description
0	Reserved
1	Changing and Deleting User Codes
2	Enable/Disable Day Alarm Operation (Version 1 Only)
2	Programming Domestic Phone Numbers (Version 2 Onwards)
3	Event Memory Recall Mode
4	Walk Test Mode
5	EDMSAT Satellite Siren Service Mode (Version 1 Only)
5	Turning Remote Output On and Off (Version 2 Onwards)
6	Initiate A Modem Call
7	Turning Remote Output On and Off (Version 1 Only)
7	Enable/Disable Day Alarm Operation (Version 2 Onwards)
8	Set The First Test Report Time (Version 1 Only)
8	Reserved
9	Initiate A Test Report

Master Code Functions

Special Code Functions - Version 2 Onwards

Special Code Functions have been incorporated to allow temporary staff or non-code users to initiate different functions as required. **SPECIAL CODE = 9999**

Function	Description
0	Reserved
1	Reserved
2	Reserved
3	Reserved
4	Reserved
5	Reserved
6	Initiate a Modem Call
7	Enable/Disable Day Alarm Operation (Version 3 Onwards)
8	Reserved
9	Initiate A Test Report

Special Code Functions

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Location 000 - 015 Primary Telephone Number					0 0 0	0 0	0 0 0	0 0	0 0 0) 0 (0 0
Location 016 - 031				·		<u>+</u>					
Secondary Telepho	one Number				0 0 0	0 0	0 0 0	0 0	0 0 0) 0 (0 0
Location 032 - 047 Callback Telephone	e Number				0 0 0	0 0	0 0 0	0 0	0 0 0) 0 (0 0
Location 048 Dialling Format	1 = A 2 = A 3 = A	ustralian D⁻ ustralian De lternate DT	TMF ecadic MF & Decadic	(AUST)		4 = 1 5 = F 6 = A	nternational DT Reversed Deca Alternate DTMF	MF dic & Rev	versed Dec	adic	2
Location 049 Handshake Tone	1 = H 2 = 1 3 = 2	II-LO Hands 400 Hz (Ad 300 Hz (Se	shake (High Sp emco TX @ 19 scoa TX @ 18	oeed DTM 900 Hz) 00 Hz)	F)	4 = N 5 = F	No Handshake Pager (New - Ve	Requir ersion	ed 2)		1
Location 050 Transmission Form	at 1 = D 2 = D 3 = 4 4 = 4 5 = 4 6 = 4 7 = 4 8 = 4	1 = DTMF Expanded High Speed9 = 3 + 1 Pulsed Universal2 = DTMF Expanded High Speed With Checksum10 = 3 + 1 Pulsed Expanded3 = 4 + 2 DTMF11 = Domestic (New - Version 2)4 = 4 + 2 DTMF With Checksum12 = Basic Pager (New - Version 2)5 = 4 + 2 Pulsed13 = Advanced Pager (New - Version 2)6 = 4 + 2 Pulsed With Checksum14 = 4 + 2 Express (New - Version 2)7 = 4 + 1 Pulsed Universal15 = Synthesised Voice (New - Version 2)8 = 4 + 1 Pulsed Expanded15 = Synthesised Voice (New - Version 2)					1 2)) on 3)	1			
Location 051 Transmission Spee	d 1 = 2 = 1 3 = 1	1 = 1 Pulse / Second 4 = 20 Puls 2 = 10 Pulses / Second 5 = 20 Puls 3 = 15 Pulses / Second 6 = 40 Pul					20 Pulses / Sec 20 Pulses / Sec 40 Pulses / Sec	ond ond FE ond	DL		2
Location 052 - 055 Client Code									0	0 0	0
Location 056 - 061 Installer Code									1 2 3	4 0	0
Location 062 - 151 User Codes								b		<u></u>	
(Master Code) User Code 1	Location 062 2 5 8 0	2 - 067 0 0 L	Jser Code 2	Loc 0 0	ation 068 - 0 0 0	073 0	User Code 3	0	Location (074 - 07 0 C	9)
User Code 4	Location 080 0 0 0 0	0 - 085 0 0 L	Jser Code 5	Loc 0 0	ation 086 - 0 0 0	091 0	User Code 6	0	Location (0000	092 - 09 0 0)
User Code 7	Location 098 0 0 0 0	<u>3 - 103</u> 0 0 L	Jser Code 8	Loc 0 0	ation 104 - 0 0 0	109 0	User Code 9	0	Location0000	110 - 11 0 0	5)
User Code 10	Location 116 0 0 0 0	6 - 121 0 0 U	ser Code 11	Loc 0 0	ation 122 - 0 0 0	127 0	User Code 12	0	Location0000	128 - 13 0 0	3)
User Code 13	Location 134 0 0 0	4 - 139 0 0 U	ser Code 14	0 0	ation 140 -	145 0	User Code 15	0	Location 7	146 - 15 0 C)

0	0	0	0
0	0	0	0
		U	0 0

Location 164 - 195

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Option	Туре	Instant	Option	Туре	Delay-2
1	0	Standard Instant	1	2	Standard Delay-2
2	0	Instant + Lockout Siren	2	2	Delay-2 + Lockout Siren
3	0	Instant + Lockout Dialler	3	2	Delay-2 + Lockout Dialler
4	0	Instant + Lockout Dialler + Lockout Siren	4	2	Delay-2 + Lockout Dialler + Lockout Siren
5	0	Instant + Silent	5	2	Delay-2 + Silent
6	0	Instant + Silent + Lockout Dialler	6	2	Delay-2 + Silent + Lockout Dialler
7	0	Instant + Isolated In HOME Mode	7	2	Delay-2 + Isolated In HOME Mode
8	0	Instant + Isolated In HOME Mode + Silent	8	2	Delay-2 + Isolated In HOME Mode + Silent
9	0	Instant + Isolated In HOME Mode + Silent + Lockout Dialler	9	2	Delay-2 + Isolated In HOME Mode + Silent + Lockout Dialler
10	0	Instant + Isolated In HOME Mode + Lockout Siren	10	2	Delay-2 + Isolated In HOME Mode + Lockout Siren
11	0	Instant + Isolated In HOME Mode + Lockout Dialler	11	2	Delay-2 + Isolated In HOME Mode + Lockout Dialler
12	0	Instant + Isolated In HOME Mode + Lockout Dialler + Lockout Siren	12	2	Delay-2 + Isolated In HOME Mode + Lockout Dialler + Lockout Siren

Option	Туре	Delay-1	Option	Туре	24 Hour
1	1	Standard Delay-1	1	3	Standard 24 Hour
2	1	Delay-1 + Lockout Siren	2	3	24 Hour + Lockout Siren
3	1	Delay-1 + Lockout Dialler	3	3	24 Hour + Lockout Dialler
4	1	Delay-1 + Lockout Dialler + Lockout Siren	4	3	24 Hour + Lockout Dialler + Lockout Siren
5	1	Delay-1 + Silent	5	3	24 Hour + Silent
6	1	Delay-1 + Silent + Lockout Dialler	6	3	24 Hour + Silent + Lockout Dialler
7	1	Delay-1 + Isolated In HOME Mode	7	3	24 Hour Fire
8	1	Delay-1 + Isolated In HOME Mode + Silent	8	3	24 Hour Fire + Lockout Siren
9	1	Delay-1 + Isolated In HOME Mode + Silent + Lockout Dialler	9	3	24 Hour Fire + Lockout Dialler
10	1	Delay-1 + Isolated In HOME Mode + Lockout Siren	10	3	24 Hour Fire + Lockout Dialler + Lockout Siren
11	1	Delay-1 + Isolated In HOME Mode + Lockout Dialler	Option	Туре	Spare Zone
12	1	Delay-1 + Isolated In HOME Mode + Lockout Dialler + Lockout Siren	9	9	Not Used

Location 196 - 197 AC Fail Code	Location 196 Location 197	Reporting Channel Expansion Code	1	9
Location 198 - 199 Low Battery Code	Location 198 Location 199	Reporting Channel Expansion Code	2	9
Location 200 - 201 Open/Close Reports	Location 200 Location 201	Reporting Channel Expansion Code	8	9

Location 202 - Software Version 1 Spare		0
Location 202 - Software Version 2 Advanced Options	1 = Answering Machine Bypass 2 = Send Test Reports Only If Armed 4 = Illuminate All Indicators During Entry Time 8 = Handover Delay To All Instant Zones	0
Location 202 - Software Version 3 Advanced Options	 1 = Open/Close Reports In HOME Mode 2 = Send Test Reports Only If Armed 4 = Illuminate All Indicators During Entry Time 8 = Handover Delay To All Instant Zones 	0
Location 203 Event Restore		9
Location 204 - 205 Trouble	Location 198 Reporting Channel Location 199 Expansion Code	9 9
Location 206 - 207 Bypass	Location 198Reporting ChannelLocation 199Expansion Code	99
Location 208 - 209 Code Tamper	Location 198Reporting ChannelLocation 199Expansion Code	99
Location 210 Code Retries		6
Location 211 Ring Count	15 = Answering Machine Bypass - Software Version 3 Only	10
Location 212 - 213 Panic	Location 198 Reporting Channel Location 199 Expansion Code	2 9
Location 214 System Options 1	1 = Enable Six Digit Codes 2 = Enable Burglary Sound Two 4 = Zero Enter Allowed 8 = Entry Guard In HOME Mode	4
Location 215 System Options 2	1 = Enable Forced Arming 2 = Enable Audible Codepad Panic 4 = Enable Audible Codepad Tamper 8 = Codepad Extinguish Mode	7
Location 216 - 217 Console Duress	Location 198 Reporting Channel Location 199 Expansion Code	1 9
Location 218 Dialler Options 1	1 = Disable Dialler 2 = Enable Smart Lockout 4 = Allow Horn Speaker Beeps 8 = 400 ms Zone Response Time	0
Location 219 Dialler Options 2	 1 = Enable Keyswitch Interface or Night Arm Station 2 = Enable Upload/Download Via Alarm Link Software 4 = Enable Telephone Remote Arming 8 = Enable Single Event HI-Speed Reporting 	2
Location 220 - 223 Test Reports	Location 220Channel NumberLocation 221Expansion CodeLocation 222Increments In 1 Hour (0 - 15 Hours)Location 223Increments In 16 Hours (0 - 240 Hours)	9 9 0 0
Location 224 - 225 Exit Time	Location 224Increments Of 1 Second (0 - 15 Sec's)Location 225Increments Of 16 Seconds (0 - 240 Sec's)	12 3

Location 226 Siren Run Time 10 Location 227 Day Alarm Mask 0 Location 228 - 229 Location 228 Increments Of 1 Second (0 - 15 Sec's) Entry Timer 1 Location 229 Increments Of 16 Seconds (0 - 240 Sec's) Location 230 - 231 Location 230 Increments Of 1 Second (0 - 15 Sec's) Entry Timer 2

Increments Of 16 Seconds (0 - 240 Sec's)

Location 231

Type

Location 232 - 251 **Output Configurations**



Polarity 200 ms 3.2 Sec's

Output Type	Function	Output Type	Function
0	EDMSAT - OUTPUT 1	6	All Signals Transmitted OK (New - Version 2)
0	EDMSTU - OUTPUT 2 (New - Version 3)	7	Silent Alarm
0	Day Alarm - OUTPUT 3 (New - Version 3)	8	Auxiliary Output - Auxiliary Code 1
0	Entry Warning - OUTPUT 4 (New - Version 3)	9	Auxiliary Output - Auxiliary Code 2
0	Entry Warning - Codepad Buzzer (New - Version 3)	10	AC Fail
1	System Armed	11	Low Battery
2	System Armed In Home Mode	12	Zone Unsealed
3	Exit With All Zones Sealed Or Entry Warning	13	Codepad Panic (Version 1 Only)
4	Exit Warning	13	Fire Alarm (Version 2 Onwards)
5	Entry Warning (Version 1 Only)	14	Codepad Duress (Version 1 Only)
5	Entry Warning Or Day Alarm (Version 2 Onwards)	14	Codepad Panic/Duress (Version 2 Onwards)
6	Day Alarm (Version 1 Only)	15	Remote Control

Polarity	Description	Polarity	Description
0	Not Used	4	Normally Low - Pulsing Open
1	Normally Open Circuit - Going Low	5	Normally Open Circuit - One Show Low
2	Normally Low Circuit - Going Open	6	Normally Low Circuit - One Shot Open
3	Normally Open Circuit - Pulsing Low		

Location 252 - 253 Next Test Report Time

Location 252 Location 253 Increments Of 1 Hours (0 - 15 Hours) Increments Of 16 Hours (0 - 240 Hours)



How To Set The First Test Report For Software Version 1

- 1. Enter the Master Code followed by 8 and the AWAY button.
- 2. Enter the number of hours (1-255) to wait until the first test report is required.
- Press the AWAY button to exit. 3.

Solution-8 Component Overlay



Software Version Identification

The chip marked "Software Version" in the diagram above will indicate the control panel's software version.

EDM008	= Software Version 1
EDM008A	= Software Version 2
EDM008A I3	= Software Version 3
EDM008 ISSUE 3	= Software Version 3

Solution-8 Wiring Diagram





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