



# Digiplex EVO High Security and Access System

EVO48 V2.1

EVO192 V2.1

## Programming Guide



## **Warranty**

For complete warranty information on this product please refer to the Limited Warranty Statement found on our Web site: [www.paradox.com](http://www.paradox.com). Your use of this Paradox product signifies your acceptance of all warranty terms and conditions.

© 2002-2010 Paradox Security Systems Ltd. All rights reserved. Specifications may change without prior notice. One or more of the following US patents may apply: 7046142, 6215399, 6111256, 6104319, 5920259, 5886632, 5721542, 5287111, 5119069, 5077549 and RE39406 and other pending patents may apply. Canadian and international patents may also apply.

Digiplex, Digiplex EVO, Magellan, PosiPIN and WinLoad are trademarks or registered trademarks of Paradox Security Systems Ltd. or its affiliates in Canada, the United States and/or other countries. For the latest information on products approvals, such as UL and CE, please visit [www.paradox.com](http://www.paradox.com).

### **Limitations of Alarm Systems**

It must be understood that while your Paradox alarm system is highly advanced and secure, it does not offer any guaranteed protection against burglary, fire or other emergency (fire and emergency options are only available on certain Paradox models). This is due to a number of reasons, including but not limited to inadequate or improper installation/positioning, sensor limitations, battery performance, wireless signal interruption, inadequate maintenance or the potential for the system or telephone lines to be compromised or circumvented. As a result, Paradox does not represent that the alarm system will prevent personal injury or property damage, or in all cases provide adequate warning or protection.

Your security system should therefore be considered as one of many tools available to reduce risk and/or damage of burglary, fire or other emergencies, such other tools include but are not limited to insurance coverage, fire prevention and extinguish devices, and sprinkler systems.

We also strongly recommend that you regularly maintain your security systems and stay aware of new and improved Paradox products and developments.

### **Warning for Connections to Non-Traditional Telephony (e.g., VoIP)**

Paradox alarm equipment was designed to work effectively around traditional telephone systems. For those customers who are using a Paradox alarm panel connected to a non-traditional telephone system, such as Voice Over Internet Protocol (VoIP) that converts the voice signal from your telephone to a digital signal traveling over the Internet, you should be aware that your alarm system may not function as effectively as with traditional telephone systems.

For example, if your VoIP equipment has no battery back-up, during a power failure your system's ability to transmit signals to the central station may be compromised. Or, if your VoIP connection becomes disabled, your telephone line monitoring feature may also be compromised. Other concerns would include, without limitation, Internet connection failures which may be more frequent than regular telephone line outages.

We therefore strongly recommend that you discuss these and other limitations involved with operating an alarm system on a VoIP or other non-traditional telephone system with your installation company. They should be able to offer or recommend measures to reduce the risks involved and give you a better understanding.

## Things You Need to Know

### About this Programming Guide

Use this programming guide to record programmed settings for your Digiplex EVO control panel. This guide should be used along with the *Digiplex EVO Reference and Installation Manual* (available online only) whenever installing or programming your Digiplex EVO system.

### Conventions

The following typographical conventions are used throughout this guide:

Section numbers appear in bold typeface, enclosed by brackets: e.g., <i>Enter a section number between [0501]...</i>	<b>WARNING: Important information</b>
Keypad keys and control panel labels appear in small caps, bold typeface: e.g., <i>Press <b>0</b>, and then <b>ENTER</b> to clear a zone's serial number...</i>	<b>NOTE: Suggestion or reminder</b>
Default Settings: Values which appear in bold typeface and/or are preceded by the symbol ▲, signify the default value: e.g., User code length: <input type="checkbox"/> 6 digits <input checked="" type="checkbox"/> 4 digits ( <i>4 digits</i> is the default value)	

### Installer Code

The default installer code is **000000**. This code allows you to enter programming mode, where you can program all features, options, and commands of your EVO control panel. To change the installer code, see *Installer Code Programming* on page 28.

### System Master Code

The default system master code is **1234** or **123456**. This code allows you to utilize any arming method, as well as program user codes. This code can be either four or six digits long.

### Panel Reset

Performing a panel reset will reset all panel settings to their preset, default values, or custom settings (if already programmed). To perform a panel reset, press and hold the panel's **RESET** and **AUX** buttons for four seconds, or refer to *Software Reset* on page 54.

### Entering Programming Mode

To enter programming mode, proceed as follows:

1. Press and hold the **0** key.
2. Enter your installer code (default is **000000**). See *Installer Code* for details.
3. Enter the four-digit section you wish to program.
4. Enter the required data and record your settings using the worksheets included in this guide.

### Decimal and Hexadecimal Programming Table

Certain sections may require the entry of one or more hexadecimal values from 0 to F.


#### K641/K641R Keypads

Table 1: Decimal and hexadecimal values using the K641 or K641R keypads

Key	Value or Action
<b>0 to 9</b>	0 to 9 (hex and decimal)
<b>STAY</b>	A (hex only)
<b>FORCE</b>	B (hex only)
<b>ARM</b>	C (hex only)
<b>DISARM</b>	D (hex only)
<b>BYP</b>	E (hex only)
<b>MEM</b>	F (hex only)
<b>CLEAR</b>	Exit section without saving (hex and decimal)
<b>ENTER</b>	Save current data and advance to next section (hex only)

## K656 Keypad

**Table 2: Decimal and hexadecimal values using the k656 keypad**

<i>Key</i>	<i>Value or Action</i>
<b>0 to 9</b>	0 to 9 (hex and decimal)
<b>ARM</b>	A (hex only)
<b>SLEEP</b>	B (hex only)
<b>STAY</b>	C (hex only)
<b>OFF</b>	D (hex only)
<b>MENU</b>	E (hex only)
	F (hex only)
<b>CLEAR</b>	Exit section without saving (hex and decimal)
<b>ENTER</b>	Save current data and advance to next section (hex only)

## Grafica Keypads

**Table 3: Decimal and hexadecimal values using Grafica keypads**

<i>Key</i>	<i>Value or Action</i>
<b>0 to 9</b>	values 0 to 9 respectively
<b>#</b>	A to F (press the # key until the desired letter appears)
Right action key (Exit)	Exit section without saving
Central action key (Save)	Save current data and advance to next section

## Contents

<b>Serial Number List .....</b>	<b>7</b>
<b>Zone Programming .....</b>	<b>10</b>
<b>Keyswitch Programming .....</b>	<b>17</b>
Keyswitch Numbering .....	17
Keyswitch Parameters .....	17
Keyswitch Arming/Disarming Report Codes .....	17
<b>Programmable Outputs .....</b>	<b>19</b>
PGM Test Mode .....	19
PGM Delays .....	19
PGM Options .....	19
PGM Programming .....	19
Event and Feature Groups .....	20
Utility Keys .....	27
Input Speeds .....	28
Installer Code Programming .....	28
<b>User Code Options .....</b>	<b>28</b>
<b>Arming and Disarming Report Codes .....</b>	<b>29</b>
<b>Access Control Sections .....</b>	<b>30</b>
Assigning Doors to the System .....	30
Schedule Programming .....	31
Backup Schedules .....	32
Access Levels .....	33
Holidays .....	33
<b>Keypad Numbering .....</b>	<b>33</b>
<b>Remote Control Programming .....</b>	<b>34</b>
Remote Control Templates .....	34
<b>Control Panel Settings .....</b>	<b>36</b>
<b>System Options .....</b>	<b>36</b>
<b>Dialer Options .....</b>	<b>38</b>
<b>Additional Options .....</b>	<b>39</b>
Schedule Tolerance Window .....	39
AutoTest Report Settings .....	39
Timings .....	39
<b>Communication Settings .....</b>	<b>39</b>
Account Numbers .....	39
Reporting Formats .....	40
<b>System Event Call Direction .....</b>	<b>41</b>
<b>VDMP3 Voice Module .....</b>	<b>41</b>
<b>PCS GSM/GPRS Communicator Module .....</b>	<b>42</b>
WinLoad/PCS Module Connection .....	42
PCS Module Programming .....	42
PCS Module (GSM) Programming .....	42
SMS Site Name .....	43
IP100/PCS Module (GPRS) Options .....	43
IP/GPRS Reporting Account Programming .....	43
IP100/PCS Module Report Code Programming .....	44

<b>Partition Settings .....</b>	<b>45</b>
Auto-arm Times .....	45
Arming/Disarming Report Schedules .....	45
Partition Timers .....	46
Partition Options 1 .....	47
Partition Arming/Disarming Options .....	48
Partition Panic Alarm Options .....	48
Partition Bell Squawk Options .....	48
Partition One-touch Options .....	49
Partition Special Options .....	49
Partition Arming/Disarming Event Call Direction .....	49
Partition Alarm/Alarm Restore Event Call Direction .....	50
Partition Tamper/Tamper Restore Event Call Direction .....	50
Special Arming Exit Delay .....	50
No Movement Schedule .....	51
<b>Special and Trouble Report Codes .....</b>	<b>51</b>
Special Report Codes .....	51
Trouble Report Codes .....	52
<b>Additional Settings and Modes .....</b>	<b>52</b>
Paradox PMCS Memory Key .....	53
Automatic Report Code Programming .....	53
Software Reset .....	54
Installer Function Keys .....	54
Automatic Report Codes .....	55
Contact ID Report Codes .....	58
<b>Keypad Programming .....</b>	<b>60</b>
K641/K641R and K656 .....	60
Label Programming .....	61
Using the Memory Key .....	62
Combus Voltmeter .....	63
Updating Firmware Using WinLoad .....	63
<b>Hardware Connections for the Control Panel .....</b>	<b>63</b>
Milliamp Consumption .....	63
Connecting the Combus in Noisy Environments .....	64
Built-in RTC .....	64
<b>Trouble Display .....</b>	<b>65</b>
K641/K641R and K648 .....	65
K656 .....	65
Grafica .....	65
Trouble Groups .....	65

## Notes

## List of Worksheets

Worksheet 1: System Planning .....	7
Worksheet 2: Zone Information .....	11
Worksheet 3: Zone Report Codes .....	15
Worksheet 4: Zone Labels .....	16
Worksheet 5: Keyswitch Numbering and Parameters .....	18
Worksheet 6: Arming and Disarming with Keyswitch Report Codes .....	18
Worksheet 7: PGM Delays .....	19
Worksheet 8: PGM Programming .....	19
Worksheet 9: Input Speeds .....	28
Worksheet 10: Installer Code Programming .....	28
Worksheet 11: Arming and Disarming Report Codes .....	29
Worksheet 12: Assigning Doors .....	30
Worksheet 13: Programming Primary Schedules .....	31
Worksheet 14: Programming Secondary Schedules .....	32
Worksheet 15: Programming Backup Schedules .....	32
Worksheet 16: Programming Access Levels .....	33
Worksheet 17: Programming Holidays .....	33
Worksheet 18: Numbering Keypads .....	34
Worksheet 19: Programming Remote Controls .....	35
Worksheet 20: Control Panel Settings .....	36
Worksheet 21: Schedule Tolerance Window .....	39
Worksheet 22: AutoTest Report Settings .....	39
Worksheet 23: Timings Settings .....	39
Worksheet 24: Account Number Settings .....	40
Worksheet 25: Reporting Formats for Section [3070] .....	40
Worksheet 26: Reporting Formats for Sections [3071] to [3074] .....	40
Worksheet 27: VDMP3 Settings .....	41
Worksheet 28: VDMP3 functions for Sections [3091] to [3098] .....	41
Worksheet 29: WinLoad/PCS Module Connection Settings .....	42
Worksheet 30: PCS Module (GSM) Settings .....	42
Worksheet 31: SMS Site Name Settings .....	43
Worksheet 32: IP Account Number Settings .....	43
Worksheet 33: IP Receiver 1 Configuration .....	43
Worksheet 34: IP Receiver 2 Configuration .....	44
Worksheet 35: IP Receiver 3 Configuration .....	44
Worksheet 36: IP Receiver 4 Configuration .....	44
Worksheet 37: PCS Module Report Codes .....	44
Worksheet 38: IP100 Report Codes .....	44
Worksheet 39: Partition Label Settings for Sections [3100] to [3800] .....	45
Worksheet 40: Auto-arm Time Settings .....	45
Worksheet 41: Arming Report Schedule Settings .....	45
Worksheet 42: Disarming Report Schedule Settings .....	46
Worksheet 43: Partition Timer Settings .....	46
Worksheet 44: Special Arming Exit Delay Settings .....	50
Worksheet 45: No Movement Schedule Settings .....	51
Worksheet 46: Special Report Code Settings .....	51
Worksheet 47: Trouble Report Code Settings .....	52
Worksheet 48: Keypad Settings for Sections [007] to [013] .....	61
Worksheet 49: Door Unlocked Schedule (K641R only) .....	61
Worksheet 50: PGM Activation and Deactivation .....	61
Worksheet 51: Milliamp Consumption of Various Devices .....	63

## Serial Number List

### Worksheet 1: System Planning

Serial # Sticker	Serial # Sticker	Serial # Sticker	Serial # Sticker	Serial # Sticker	Serial # Sticker
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50	51	52	53	54
55	56	57	58	59	60
61	62	63	64	65	66
67	68	69	70	71	72
73	74	75	76	77	78
79	80	81	82	83	84
85	86	87	88	89	90

Worksheet 1: System Planning (Continued)

<i>Serial # Sticker</i>	<i>Serial # Sticker</i>	<i>Serial # Sticker</i>	<i>Serial # Sticker</i>	<i>Serial # Sticker</i>	<i>Serial # Sticker</i>
91	92	93	94	95	96
97	98	99	100	101	102
103	104	105	106	107	108
109	110	111	112	113	114
115	116	117	118	119	120
121	122	123	124	125	126
127	128	129	130	131	132
133	134	135	136	137	138
139	140	141	142	143	144
145	146	147	148	149	150
151	152	153	154	155	156
157	158	159	160	161	162
163	164	165	166	167	168
169	170	171	172	173	174
175	176	177	178	179	180
181	182	183	184	185	186



**Worksheet 1: System Planning (Continued)**

<i>Serial # Sticker</i>	<i>Serial # Sticker</i>	<i>Serial # Sticker</i>	<i>Serial # Sticker</i>	<i>Serial # Sticker</i>	<i>Serial # Sticker</i>
187	188	189	190	191	192
193	194	195	196	197	198
199	200	201	202	203	204
205	206	207	208	209	210
211	212	213	214	215	216
217	218	219	220	221	222
223	224	225	226	227	228
229	230	231	232	233	234
235	236	237	238	239	240
241	242	243	244	245	246
247	248	249	250	251	252
253	254				

## Zone Programming

Use the following section to program all zones on your EVO48 or EVO192 control panel.

To program zones:

1. Enter section **[0400]**.
2. Enter the zone number you wish to program.

**NOTE:** In any zone programming option, pressing **ACC** on the K641/K641R, or **▲** on the K656, will save the data and access the next zone on the same option screen. Pressing **TRBL** on the K641/K641R, or **△** on the K656, will save the data and return to the previous zone on the same option screen. In addition, if you're using a keypad other than a K641, K656, K07C, or K07 (version 2.2 and higher), use the section numbers outlined in table 8 to program zones. Without a K641, K656, or Grafica keypad, you can only program zones 1 to 96.

3. Enter the zone's eight-digit serial number, then it's three-digit input number (the input number is not needed for modules with only one input). Press **0**, and then **ENTER** to clear a zone's serial number. Use worksheet 2 on page 11, to record the information.
4. Enter the following zone parameters; default setting is (01) (\*2\*4\*\*\*):
  - a. A zone definition, by referring to table 4
  - b. A partition, by referring to table 5
  - c. A zone option, by referring to table 6
5. Enter the zone's report codes, by referring to table 7; default: (00) (00) (00) (00). Use worksheet 3 on page 15, to record the information.
6. Enter the zone's label. Use worksheet 4 on page 16, to record the information.
7. Press **ENTER** to save and proceed to the next zone.

**NOTE:** Pressing **CLEAR** twice will exit the zone programming menus. To save your modifications, make sure to press **ENTER** before pressing **CLEAR**.

**Table 4: Zone definitions for EVO48/EVO192**

Input Value	Description
0	Disabled (default)
1	Entry delay 1
2	Entry delay 2
3	Follow
4	Instant
5	24 hr. buzzer
6	24 hr. burglary
7	24 hr. hold-up
8	24 hr. gas
9	24 hr. heat
A	24 hr. water
B	24 hr. freeze
C	Delayed 24 hr. fire
D	Standard 24 hr. fire
E	Stay delay 1
F	Stay delay 2

**Table 5: Partition assignment for EVO48/EVO192**

Input Value	Description
1	Assign to partition 1
2	Assign to partition 2
3	Assign to partition 3
4	Assign to partition 4
5	Assign to partition 5
6	Assign to partition 6
7	Assign to partition 7
8	Assign to partition 8

**Table 6: Zone options for EVO48/EVO192**

Input Value	Description	
1	Auto zone shutdown enabled	
2	Bypass enabled (default: ON)	
3	Stay zone	
4	Force zone (default: ON)	
7	Intellizone	
8	Delay before transmission	
Zone Alarm Type		
Input Value	Zone Alarm Type	
5	6	
OFF	OFF	Steady alarm
OFF	ON	Pulsed alarm
ON	OFF	Silent alarm
ON	ON	Report only

**Table 7: Zone report codes for EVO48/EVO192**

Alarm Report Code	Alarm Restore Report Code	Tamper Report Code	Tamper Restore Report Code
__ / __	__ / __	__ / __	__ / __

For Ademco Slow, Silent Knight Fast, Sescoa, Ademco Express, or pager formats, key-in desired two-digit hex values from 00 to FF.

**Ademco Format**

Use section **[4032]** to program a set of default Ademco report codes from the *Automatic Report Code Programming* on page 57. Then to program the remaining report codes or to change some of the defaults, enter the individual sections and key-in the desired two-digit hex value found in the *Contact ID Report Code List* on page 60.

**SIA Format**

Use section **[4032]** to program a set of SIA report codes from the *Automatic Report Code Programming* on page 57. Codes that have not been set to default can be set to default manually by entering FF in the appropriate section. To disable the reporting of an event, enter **00** in the appropriate section.

**Table 8: Section numbers used for zone programming**

Zone Number	Zone Serial & Input Numbers	Zone Parameters	Zone Report Codes	Zone Label
1	<b>[0001]</b>	<b>[0101]</b>	<b>[0201]</b>	<b>[0301]</b>
2	<b>[0002]</b>	<b>[0102]</b>	<b>[0202]</b>	<b>[0302]</b>
	+ 1 per zone	+ 1 per zone	+ 1 per zone	+ 1 per zone
96	<b>[0096]</b>	<b>[0196]</b>	<b>[0296]</b>	<b>[0396]</b>

Worksheet 2: Zone Information

Zone	Description	Module	Eight-digit Serial Number	Input Number	Zone Definition	Partition Assignment	Zone Options
1			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
2			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
3			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
4			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
5			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
6			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
7			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
8			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
9			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
10			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
11			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
12			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
13			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
14			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
15			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
16			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
17			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
18			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
19			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
20			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
21			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
22			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
23			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
24			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
25			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
26			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
27			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
28			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
29			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
30			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
31			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
32			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
33			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
34			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
35			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
36			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
37			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
38			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
39			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
40			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
41			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
42			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
43			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
44			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
45			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
46			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
47			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8
48			/ / / / / / / /	/ /			1 2 3 4 5 6 7 8

Worksheet 2: Zone Information (Continued)

Zone	Description	Module	Eight-digit Serial Number	Input Number	Zone Definition	Partition Assignment	Zone Options
49			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
50			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
51			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
52			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
53			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
54			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
55			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
56			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
57			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
58			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
59			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
60			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
61			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
62			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
63			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
64			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
65			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
66			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
67			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
68			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
69			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
70			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
71			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
72			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
73			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
74			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
75			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
76			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
77			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
78			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
79			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
80			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
81			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
82			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
83			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
84			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
85			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
86			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
87			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
88			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
89			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
90			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
91			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
92			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
93			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
94			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
95			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
96			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8



## Worksheet 2: Zone Information (Continued)

Zone	Description	Module	Eight-digit Serial Number	Input Number	Zone Definition	Partition Assignment	Zone Options
145			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
146			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
147			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
148			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
149			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
150			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
151			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
152			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
153			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
154			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
155			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
156			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
157			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
158			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
159			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
160			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
161			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
162			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
163			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
164			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
165			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
166			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
167			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
168			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
169			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
170			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
171			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
172			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
173			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
174			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
175			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
176			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
177			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
178			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
179			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
180			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
181			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
182			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
183			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
184			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
185			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
186			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
187			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
188			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
189			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
190			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
191			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8
192			/ / / / / / / /	/ / /			1 2 3 4 5 6 7 8

**Worksheet 3: Zone Report Codes**

Zone #	Alarm Report Codes	Alarm Restore Report Codes	Tamper Report Codes	Tamper Restore Report Codes	Zone #	Alarm Report Codes	Alarm Restore Report Codes	Tamper Report Codes	Tamper Restore Report Codes	Zone #	Alarm Report Codes	Alarm Restore Report Codes	Tamper Report Codes	Tamper Restore Report Codes	Zone #	Alarm Report Codes	Alarm Restore Report Codes	Tamper Report Codes	Tamper Restore Report Codes
1	___	___	___	___	49	___	___	___	___	97	___	___	___	___	145	___	___	___	___
2	___	___	___	___	50	___	___	___	___	98	___	___	___	___	146	___	___	___	___
3	___	___	___	___	51	___	___	___	___	99	___	___	___	___	147	___	___	___	___
4	___	___	___	___	52	___	___	___	___	100	___	___	___	___	148	___	___	___	___
5	___	___	___	___	53	___	___	___	___	101	___	___	___	___	149	___	___	___	___
6	___	___	___	___	54	___	___	___	___	102	___	___	___	___	150	___	___	___	___
7	___	___	___	___	55	___	___	___	___	103	___	___	___	___	151	___	___	___	___
8	___	___	___	___	56	___	___	___	___	104	___	___	___	___	152	___	___	___	___
9	___	___	___	___	57	___	___	___	___	105	___	___	___	___	153	___	___	___	___
10	___	___	___	___	58	___	___	___	___	106	___	___	___	___	154	___	___	___	___
11	___	___	___	___	59	___	___	___	___	107	___	___	___	___	155	___	___	___	___
12	___	___	___	___	60	___	___	___	___	108	___	___	___	___	156	___	___	___	___
13	___	___	___	___	61	___	___	___	___	109	___	___	___	___	157	___	___	___	___
14	___	___	___	___	62	___	___	___	___	110	___	___	___	___	158	___	___	___	___
15	___	___	___	___	63	___	___	___	___	111	___	___	___	___	159	___	___	___	___
16	___	___	___	___	64	___	___	___	___	112	___	___	___	___	160	___	___	___	___
17	___	___	___	___	65	___	___	___	___	113	___	___	___	___	161	___	___	___	___
18	___	___	___	___	66	___	___	___	___	114	___	___	___	___	162	___	___	___	___
19	___	___	___	___	67	___	___	___	___	115	___	___	___	___	163	___	___	___	___
20	___	___	___	___	68	___	___	___	___	116	___	___	___	___	164	___	___	___	___
21	___	___	___	___	69	___	___	___	___	117	___	___	___	___	165	___	___	___	___
22	___	___	___	___	70	___	___	___	___	118	___	___	___	___	166	___	___	___	___
23	___	___	___	___	71	___	___	___	___	119	___	___	___	___	167	___	___	___	___
24	___	___	___	___	72	___	___	___	___	120	___	___	___	___	168	___	___	___	___
25	___	___	___	___	73	___	___	___	___	121	___	___	___	___	169	___	___	___	___
26	___	___	___	___	74	___	___	___	___	122	___	___	___	___	170	___	___	___	___
27	___	___	___	___	75	___	___	___	___	123	___	___	___	___	171	___	___	___	___
28	___	___	___	___	76	___	___	___	___	124	___	___	___	___	172	___	___	___	___
29	___	___	___	___	77	___	___	___	___	125	___	___	___	___	173	___	___	___	___
30	___	___	___	___	78	___	___	___	___	126	___	___	___	___	174	___	___	___	___
31	___	___	___	___	79	___	___	___	___	127	___	___	___	___	175	___	___	___	___
32	___	___	___	___	80	___	___	___	___	128	___	___	___	___	176	___	___	___	___
33	___	___	___	___	81	___	___	___	___	129	___	___	___	___	177	___	___	___	___
34	___	___	___	___	82	___	___	___	___	130	___	___	___	___	178	___	___	___	___
35	___	___	___	___	83	___	___	___	___	131	___	___	___	___	179	___	___	___	___
36	___	___	___	___	84	___	___	___	___	132	___	___	___	___	180	___	___	___	___
37	___	___	___	___	85	___	___	___	___	133	___	___	___	___	181	___	___	___	___
38	___	___	___	___	86	___	___	___	___	134	___	___	___	___	182	___	___	___	___
39	___	___	___	___	87	___	___	___	___	135	___	___	___	___	183	___	___	___	___
40	___	___	___	___	88	___	___	___	___	136	___	___	___	___	184	___	___	___	___
41	___	___	___	___	89	___	___	___	___	137	___	___	___	___	185	___	___	___	___
42	___	___	___	___	90	___	___	___	___	138	___	___	___	___	186	___	___	___	___
43	___	___	___	___	91	___	___	___	___	139	___	___	___	___	187	___	___	___	___
44	___	___	___	___	92	___	___	___	___	140	___	___	___	___	188	___	___	___	___
45	___	___	___	___	93	___	___	___	___	141	___	___	___	___	189	___	___	___	___
46	___	___	___	___	94	___	___	___	___	142	___	___	___	___	190	___	___	___	___
47	___	___	___	___	95	___	___	___	___	143	___	___	___	___	191	___	___	___	___
48	___	___	___	___	96	___	___	___	___	144	___	___	___	___	192	___	___	___	___





## Keyswitch Programming

Use the following section to program keyswitches on your EVO48 or EVO192 control panel. Keyswitch programming information is entered in worksheets 5 and 6 on page 18.

### Keyswitch Numbering

This feature allows the installer to assign a keyswitch to an addressable or hardwired detection device. To assign keyswitch numbering, proceed as follows:

1. Enter a section number between **[0501]** and **[0532]**. These sections represent keyswitches 1 to 32, respectively.
2. In column *A*, of worksheet 5 on page 18, enter the eight-digit serial number of the module, to which the keyswitch is connected.
3. In column *B*, of worksheet 5 on page 18, enter the three-digit input number of the module, to which the keyswitch is connected.

### Keyswitch Parameters

This feature defines the keyswitch's partition assignment and arming method. To assign keyswitch parameters, proceed as follows:

1. Enter a section number between **[0601]** and **[0632]**. These sections represent keyswitches 1 to 32, respectively.
2. In column *C*, of worksheet 5 on page 18, enter the keyswitch definition (refer to table 9 for details). The default setting is set to *disabled*.
3. In column *D*, of worksheet 5 on page 18, enter the desired partition to which the keyswitch is assigned (refer to table 10 for details). By default, keyswitches are not assigned to a partition.
4. In column *E*, of worksheet 5 on page 18, enter the keyswitch option (refer to table 11 for details). By default, all settings are set to *OFF*.

Table 9: Keyswitch definitions

Input Value	Description
0	Disabled (default)
1	Momentary keyswitch
2	Maintained keyswitch
3	Generates a utility key event on <i>open</i> *
4	Generates a utility key event on <i>open and close</i> *
5	Panic input option**

\* To use this keyswitch definition, one or more PGMs must be programmed with the *Utility Key* event (see *Event Group 048* in table 14 on page 20).

\*\* To use this keyswitch definition, refer to *Panic Input Option*.

Table 10: Keyswitch partition/panic type assignment

Input Value	Description
0	<ul style="list-style-type: none"> <li>• Not assigned to a partition (default)</li> <li>• Panic type 1: police*</li> </ul>
1	<ul style="list-style-type: none"> <li>• Assign keyswitch to partition 1</li> <li>• Panic type 2: medical*</li> </ul>
2	<ul style="list-style-type: none"> <li>• Assign keyswitch to partition 2</li> <li>• Panic type 3: fire*</li> </ul>
3	Assign keyswitch to partition 3
4	Assign keyswitch to partition 4
5	Assign keyswitch to partition 5
6	Assign keyswitch to partition 6
7	Assign keyswitch to partition 7
8	Assign keyswitch to partition 8

\* Only applicable for keyswitch definition 5 (*panic input option* in table 9). Refer to *Panic Input Option* for details.

Table 11: Keyswitch options/partition assignment

Input Value	Description
1	Assign keyswitch to partition 1*
2	Assign keyswitch to partition 2*
3	<ul style="list-style-type: none"> <li>• Disarm only</li> <li>• Assign keyswitch to partition 3*</li> </ul>
4	<ul style="list-style-type: none"> <li>• OFF: disarm; ON: disarm only if Stay/Instant armed</li> <li>• Assign keyswitch to partition 4*</li> </ul>
5	<ul style="list-style-type: none"> <li>• Arm only</li> <li>• Assign keyswitch to partition 5*</li> </ul>
6	<ul style="list-style-type: none"> <li>• Stay arming**</li> <li>• Assign keyswitch to partition 6*</li> </ul>
7	<ul style="list-style-type: none"> <li>• Force arming**</li> <li>• Assign keyswitch to partition 7*</li> </ul>
8	<ul style="list-style-type: none"> <li>• Instant arming**</li> <li>• Assign keyswitch to partition 8*</li> </ul>

\* Only applicable for keyswitch definition 5 (*panic input option* in table 9). Refer to *Panic Input Option* for details.

\*\* Select only one of these arming types. If all are OFF, keyswitch will use regular arming by default.

### Keyswitch Arming/Disarming Report Codes

For Ademco Slow, Silent Knight Fast, SESCOA, Ademco Express, or pager formats, key-in desired two-digit hex values from 00 to FF. Use worksheet 6 on page 18 to record settings.

#### Ademco Contact ID

- Use section **[4033]** to program a set of default Ademco report codes, using table 44 (*Description of the automatic report codes*), on page 53.
- To program the remaining report codes or change certain defaults, access the individual sections and key-in the desired two-digit hex value, found in table 48 (*List of Ademco contact ID report codes*), on page 58.

#### SIA Format

- Use section **[4033]** to program a set of SIA report codes, using table 44 (*Description of the automatic report codes*), on page 53.
- Codes that have not been set to *default* can be set as such manually, by entering FF in the appropriate section.
- To disable the reporting of an event, enter **00** in the appropriate section.

### Panic Input Option

To use the panic input option when programming keyswitch parameters in sections **[0601]** to **[0632]**, proceed as follows:

1. Enable partition panic alarm options, by referring to table 35 on page 48.
2. Enter **5** to access the panic input option (see table 9).
3. Enter **0**, **1**, or **2** to assign the type of panic. As shown in table 10, 0 = police; 1 = medical; 2 = fire.
4. Enter **1** to **8** to assign the keyswitch to partitions 1 through 8, respectively (see table 11).

## Worksheet 5: Keyswitch Numbering and Parameters

Keyswitch #	Description	Module	Section	A	B	Section	C	D	E
				Eight-digit Serial Number	Input Number		Keyswitch Definition	Keyswitch Partition	Keyswitch Options
1			[0501]	/ / / / / / / /	/ / / /	[0601]			1 2 3 4 5 6 7 8
2			[0502]	/ / / / / / / /	/ / / /	[0602]			1 2 3 4 5 6 7 8
3			[0503]	/ / / / / / / /	/ / / /	[0603]			1 2 3 4 5 6 7 8
4			[0504]	/ / / / / / / /	/ / / /	[0604]			1 2 3 4 5 6 7 8
5			[0505]	/ / / / / / / /	/ / / /	[0605]			1 2 3 4 5 6 7 8
6			[0506]	/ / / / / / / /	/ / / /	[0606]			1 2 3 4 5 6 7 8
7			[0507]	/ / / / / / / /	/ / / /	[0607]			1 2 3 4 5 6 7 8
8			[0508]	/ / / / / / / /	/ / / /	[0608]			1 2 3 4 5 6 7 8
9			[0509]	/ / / / / / / /	/ / / /	[0609]			1 2 3 4 5 6 7 8
10			[0510]	/ / / / / / / /	/ / / /	[0610]			1 2 3 4 5 6 7 8
11			[0511]	/ / / / / / / /	/ / / /	[0611]			1 2 3 4 5 6 7 8
12			[0512]	/ / / / / / / /	/ / / /	[0612]			1 2 3 4 5 6 7 8
13			[0513]	/ / / / / / / /	/ / / /	[0613]			1 2 3 4 5 6 7 8
14			[0514]	/ / / / / / / /	/ / / /	[0614]			1 2 3 4 5 6 7 8
15			[0515]	/ / / / / / / /	/ / / /	[0615]			1 2 3 4 5 6 7 8
16			[0516]	/ / / / / / / /	/ / / /	[0616]			1 2 3 4 5 6 7 8
17			[0517]	/ / / / / / / /	/ / / /	[0617]			1 2 3 4 5 6 7 8
18			[0518]	/ / / / / / / /	/ / / /	[0618]			1 2 3 4 5 6 7 8
19			[0519]	/ / / / / / / /	/ / / /	[0619]			1 2 3 4 5 6 7 8
20			[0520]	/ / / / / / / /	/ / / /	[0620]			1 2 3 4 5 6 7 8
21			[0521]	/ / / / / / / /	/ / / /	[0621]			1 2 3 4 5 6 7 8
22			[0522]	/ / / / / / / /	/ / / /	[0622]			1 2 3 4 5 6 7 8
23			[0523]	/ / / / / / / /	/ / / /	[0623]			1 2 3 4 5 6 7 8
24			[0524]	/ / / / / / / /	/ / / /	[0624]			1 2 3 4 5 6 7 8
25			[0525]	/ / / / / / / /	/ / / /	[0625]			1 2 3 4 5 6 7 8
26			[0526]	/ / / / / / / /	/ / / /	[0626]			1 2 3 4 5 6 7 8
27			[0527]	/ / / / / / / /	/ / / /	[0627]			1 2 3 4 5 6 7 8
28			[0528]	/ / / / / / / /	/ / / /	[0628]			1 2 3 4 5 6 7 8
29			[0529]	/ / / / / / / /	/ / / /	[0629]			1 2 3 4 5 6 7 8
30			[0530]	/ / / / / / / /	/ / / /	[0630]			1 2 3 4 5 6 7 8
31			[0531]	/ / / / / / / /	/ / / /	[0631]			1 2 3 4 5 6 7 8
32			[0532]	/ / / / / / / /	/ / / /	[0632]			1 2 3 4 5 6 7 8

## Worksheet 6: Arming and Disarming with Keyswitch Report Codes

Section	Keyswitch #	Arming	Section	Keyswitch #	Arming	Section	Keyswitch #	Arming	Section	Keyswitch #	Disarming	Section	Keyswitch #	Disarming	Section	Keyswitch #	Disarming
[0701]	1	/ /	[0715]	15	/ /	[0729]	29	/ /	[0801]	1	/ /	[0815]	15	/ /	[0829]	29	/ /
[0702]	2	/ /	[0716]	16	/ /	[0730]	30	/ /	[0802]	2	/ /	[0816]	16	/ /	[0830]	30	/ /
[0703]	3	/ /	[0717]	17	/ /	[0731]	31	/ /	[0803]	3	/ /	[0817]	17	/ /	[0831]	31	/ /
[0704]	4	/ /	[0718]	18	/ /	[0732]	32	/ /	[0804]	4	/ /	[0818]	18	/ /	[0832]	32	/ /
[0705]	5	/ /	[0719]	19	/ /				[0805]	5	/ /	[0819]	19	/ /			
[0706]	6	/ /	[0720]	20	/ /				[0806]	6	/ /	[0820]	20	/ /			
[0707]	7	/ /	[0721]	21	/ /				[0807]	7	/ /	[0821]	21	/ /			
[0708]	8	/ /	[0722]	22	/ /				[0808]	8	/ /	[0822]	22	/ /			
[0709]	9	/ /	[0723]	23	/ /				[0809]	9	/ /	[0823]	23	/ /			
[0710]	10	/ /	[0724]	24	/ /				[0810]	10	/ /	[0824]	24	/ /			
[0711]	11	/ /	[0725]	25	/ /				[0811]	11	/ /	[0825]	25	/ /			
[0712]	12	/ /	[0726]	26	/ /				[0812]	12	/ /	[0826]	26	/ /			
[0713]	13	/ /	[0727]	27	/ /				[0813]	13	/ /	[0827]	27	/ /			
[0714]	14	/ /	[0728]	28	/ /				[0814]	14	/ /	[0828]	28	/ /			

## Programmable Outputs

Use the following section to program various programmable outputs (PGMs) on your EVO48 or EVO192 control panel.

### PGM Test Mode

Table 12: Test PGMs and their section numbers

Section	Action	Description
[0901]	Test PGM 1	Activates PGM 1 for eight seconds to verify if the PGM is functioning properly
[0902]	Test PGM 2	Activates PGM 2 for eight seconds to verify if the PGM is functioning properly
[0903]	Test PGM 3	Activates PGM 3 for eight seconds to verify if the PGM is functioning properly
[0904]	Test PGM 4	Activates PGM 4 for eight seconds to verify if the PGM is functioning properly
[0905]	Test PGM 5	Activates PGM 5 for eight seconds to verify if the PGM is functioning properly

### PGM Delays

To record values in worksheet 7, use the PGM Delay descriptions, as well as the information appearing in table 13 (Description of PGM options).

**WARNING: Considering that section numbers follow a numerical sequence, PGM activation and deactivation events for a respective PGM are skipped when using the keypad's programming sequence. For instance, sections [0918] and [0919] correspond to PGM 1 and one follows the other in the programming sequence; however, the following section in the sequence ([0920], corresponds to PGM 2. Make sure to enter sections [0910] through [0917] (see table 14) to complete activation/deactivation programming for PGM 1.**

#### Worksheet 7: PGM Delays

Section	PGM Delay Value	Range	Description	Default Setting
[0918]	__/__/__	(001 to 255 x 1 sec./min.)	PGM 1 delay (refer to section [0919], option 2, to see whether the delay is in sec. or min.)	5 sec./min.
[0928]	__/__/__	(001 to 255 x 1 sec./min.)	PGM 2 delay (refer to section [0929], option 2, to see whether the delay is in sec. or min.)	5 sec./min.
[0938]	__/__/__	(001 to 255 x 1 sec./min.)	PGM 3 delay (refer to section [0939], option 2, to see whether the delay is in sec. or min.)	5 sec./min.
[0948]	__/__/__	(001 to 255 x 1 sec./min.)	PGM 4 delay (refer to section [0949], option 2, to see whether the delay is in sec. or min.)	5 sec./min.
[0958]	__/__/__	(001 to 255 x 1 sec./min.)	PGM 5 delay (refer to section [0959], option 2, to see whether the delay is in sec. or min.)	5 sec./min.

### PGM Options

Table 13: Description of PGM options

Option	Description	PGM 1 [0919]		PGM 2 [0929]		PGM 3 [0939]		PGM 4 [0949]		PGM 5 [0959]	
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON
1	PGM deactivation after (OFF = deactivation event; ON = PGM timer)	▲	□	▲	□	▲	□	▲	□	▲	□
2	PGM base time (OFF = seconds; ON = minutes)	▲	□	▲	□	▲	□	▲	□	▲	□
3	Flexible PGM deactivation option (OFF = PGM timer only; ON = PGM timer and/or deactivation event)	▲	□	▲	□	▲	□	▲	□	▲	□
4	PGM initial state (OFF = normally open; ON = normally closed)	▲	□	▲	□	▲	□	▲	□	▲	□
5 to 8	Future use	-	-	-	-	-	-	-	-	-	-

OFF = Disabled; ON = Enabled; ▲ = Default Setting

**WARNING: To use the flexible PGM Deactivation option (option 3), the PGM deactivation after option (option 1) must be ON (see table 13).**

### PGM Programming

Use table 14 (List of event and feature groups), on page 20 to enter data in worksheet 8. Columns A through D in worksheet 8, correspond to their respective columns in table 14.

#### Worksheet 8: PGM Programming

	A			B			C			D		
	Section	PGM	Event Group	Section	PGM	Feature Group	Section	PGM	Start #	Section	PGM	End #
PGM Activation	[0910]	PGM 1	__/__/__	[0911]	PGM 1	__/__/__	[0912]	PGM 1	__/__/__	[0913]	PGM 1	__/__/__
	[0920]	PGM 2	__/__/__	[0921]	PGM 2	__/__/__	[0922]	PGM 2	__/__/__	[0923]	PGM 2	__/__/__
	[0930]	PGM 3	__/__/__	[0931]	PGM 3	__/__/__	[0932]	PGM 3	__/__/__	[0933]	PGM 3	__/__/__
	[0940]	PGM 4	__/__/__	[0941]	PGM 4	__/__/__	[0942]	PGM 4	__/__/__	[0943]	PGM 4	__/__/__
	[0950]	PGM 5	__/__/__	[0951]	PGM 5	__/__/__	[0952]	PGM 5	__/__/__	[0953]	PGM 5	__/__/__
PGM Deactivation	[0914]	PGM 1	__/__/__	[0915]	PGM 1	__/__/__	[0916]	PGM 1	__/__/__	[0917]	PGM 1	__/__/__
	[0924]	PGM 2	__/__/__	[0925]	PGM 2	__/__/__	[0926]	PGM 2	__/__/__	[0927]	PGM 2	__/__/__
	[0934]	PGM 3	__/__/__	[0935]	PGM 3	__/__/__	[0936]	PGM 3	__/__/__	[0937]	PGM 3	__/__/__
	[0944]	PGM 4	__/__/__	[0945]	PGM 4	__/__/__	[0946]	PGM 4	__/__/__	[0947]	PGM 4	__/__/__
	[0954]	PGM 5	__/__/__	[0955]	PGM 5	__/__/__	[0956]	PGM 5	__/__/__	[0957]	PGM 5	__/__/__

## Event and Feature Groups

### Notes for Table 14

000 = Occurs in all partitions enabled in the system (see section [3031], in table 18 on page 36)	001 = Partition 1	002 = Partition 2	003 = Partition 3	004 = Partition 4
255 = Occurs in at least one partition enabled in the system	005 = Partition 5	006 = Partition 6	007 = Partition 7	008 = Partition 8

Table 14: List of event and feature groups

A Event Group	Event	B Feature Group	Feature	C Start #	D End #
000	Zone is OK	000 255 = any zone #	Zone numbers	001 to 192	001 to 192
001	Zone is open			001 to 192	001 to 192
002	Zone is tampered			001 to 192	001 to 192
003	Zone is in fire loop trouble			001 to 192	001 to 192
004	Non-reportable event	000	TLM trouble	000	000
004	Non-reportable event	000	Smoke detector reset	001	001
			Arm with no entry delay	002	002
			Arm in Stay mode	003	003
			Arm in Away mode	004	004
			Full arm when in Stay mode	005	005
			Voice module access	006	006
			Remote control access	007	007
			Pc fail to communicate	008	008
			Midnight	009	009
			Neware user login	010	010
			Neware user logout	011	011
			User initiated call-up	012	012
			Force answer	013	013
			Force hangup	014	014
			Future use	015	015
			Auxiliary output manually activated	016	016
			Auxiliary output manually deactivated	017	017
			Voice reporting failed	018	018
			FTC restore	019	019
			Software access (VDMP3, Ip100, Neware, WinLoad)	020	020
IPR512 1 Registration Status	021	021			
IPR512 2 registration status	022	022			
IPR512 3 registration status	023	023			
IPR512 4 registration status	024	024			
		255	Any non-reportable event	Not Used	Not Used
005	User code entered on keypad	000	User codes 000 to 255	000 to 255	000 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
006	User/card access on door	000	Door numbers	001 to 032	001 to 032
		255	Any door number	Not Used	Not Used
007	Bypass programming access	000	One-touch bypass programming	000	000
		000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used

Table 14: List of event and feature groups (Continued)

A Event Group	Event	B Feature Group	Feature	C Start #	D End #
008	TX delay zone alarm	000	Zone numbers	001 to 192	001 to 192
		255	Any zone number	Not Used	Not Used
009	Arming with master	000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
010	Arming with user code	000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
011	Arming with keyswitch	000	Keyswitch numbers	001 to 032	001 to 032
		255	Any keyswitch	Not Used	Not Used
012	Special arming	000	Auto arming	000	000
			Arming with WinLoad	001	001
			Late to close	002	002
			No movement arming	003	003
			Partial arming	004	004
			One-touch arming	005	005
			Future use	006	006
			Future use	007	007
			(InTouch) voice module arming	008	008
			Delinquency closing	009	009
		255	Any special arming event	Not Used	Not Used
013	Disarm with master	000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
014	Disarm with user code	000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
015	Disarm with keyswitch	000	Keyswitch numbers	001 to 032	001 to 032
		255	Any keyswitch	Not Used	Not Used
016	Disarm after alarm with master	000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
017	Disarm after alarm with user code	000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
018	Disarm after alarm with keyswitch	000	Keyswitch numbers	001 to 032	001 to 032
		255	Any keyswitch	Not Used	Not Used

Table 14: List of event and feature groups (Continued)

A Event Group	Event	B Feature Group	Feature	C Start #	D End #
019	Alarm cancelled with master	000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
020	Alarm cancelled with user code	000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
021	Alarm cancelled with keyswitch	000	Keyswitch numbers	001 to 032	001 to 032
		255	Any keyswitch	Not Used	Not Used
022	Special disarming	000	Auto arm cancelled	000	000
			One-touch Stay/Instant disarm	001	001
			Disarming with winLoad	002	002
			Disarming with winload after alarm	003	003
			WinLoad cancelled alarm	004	004
			Future use	005	005
			Future use	006	006
			Future use	007	007
		(InTouch) voice module disarming	008	008	
255	Any special disarming event	Not Used	Not Used		
023	Zone bypassed	000 255 = any zone #	Zone numbers	001 to 192	001 to 192
024	Zone in alarm			001 to 192	001 to 192
025	Fire alarm			001 to 192	001 to 192
026	Zone alarm restore			001 to 192	001 to 192
027	Fire alarm restore			001 to 192	001 to 192
028	Early to disarm by user	000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
029	Late to disarm by user	000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
030	Special alarm	000	Emergency panic (Keys <b>1 &amp; 3</b> )	000	000
			Medical panic (Keys <b>4 &amp; 6</b> )	001	001
			Fire panic (Keys <b>7 &amp; 9</b> )	002	002
			Recent closing	003	003
			Police code	004	004
			Zone shutdown	005	005
			Future use	006	006
			Future use	007	007
			TLM alarm	008	008
			Central communication failure alarm	009	009
			Module tamper alarm	010	010
Missing GSM module alarm	011	011			

Table 14: List of event and feature groups (Continued)

A Event Group	Event	B Feature Group	Feature	C Start #	D End #
030 (cont.)	Special alarm (cont.)	000 (cont.)	GSM no service alarm	012	012
			Missing IP module alarm	013	013
			IP no service alarm	014	014
			Missing voice module alarm	015	015
		255	Any special alarm event	Not Used	Not Used
031	Duress alarm by user	000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
032	Zone shutdown	000 255 = any zone #	Zone numbers	001 to 192	001 to 192
033	Zone tamper			001 to 192	001 to 192
034	Zone tamper restore			001 to 192	001 to 192
035	Special tamper	000	Keypad lockout	000	000
			Voice lockout	001	001
036	Trouble event	000	Future use	000	000
			AC failure	001	001
			Battery failure	002	002
			Auxiliary current limit	003	003
			Bell current limit	004	004
			Bell absent	005	005
			Clock trouble	006	006
			Global fire loop	007	007
		255	Any trouble event	Not Used	Not Used
037	Trouble restore	000	TLM trouble	000	000
			AC failure	001	001
			Battery failure	002	002
			Auxiliary current limit	003	003
			Bell current limit	004	004
			Bell absent	005	005
			Clock trouble	006	006
			Global fire loop	007	007
		255	Any trouble restore event	Not Used	Not Used
038	Module trouble	000	Combus fault	000	000
			Module tamper	001	001
			ROM/RAM error	002	002
			TLM trouble	003	003
			Fail to communicate	004	004
			Printer fault	005	005
			AC failure	006	006
			Battery failure	007	007
			Auxiliary failure	008	008
		001	Missing PCS module	000	000
			GSM RF jam	002	002
			GSM no service	003	003
			Fail to communicate IPR512 1	004	004
			Fail to communicate IPR512 2	005	005
			Fail to communicate IPR512 3	006	006
Fail to communicate IPR512 4	007	007			

Table 14: List of event and feature groups (Continued)

A Event Group	Event	B Feature Group	Feature	C Start #	D End #		
038 (cont.)	Module trouble (cont.)	001 (cont.)	Missing voice module	032	032		
		002	Missing IP module	000	000		
			IP no service	001	001		
			Fail to communicate IPR512 1	002	002		
			Fail to communicate IPR512 2	003	003		
			Fail to communicate IPR512 3	004	004		
			Fail to communicate IPR512 4	005	005		
		255	Any module trouble event	Not Used	Not Used		
039	Module trouble restore	000	Combus fault	000	000		
			Module tamper	001	001		
			ROM/RAM error	002	002		
			TLM trouble	003	003		
			Fail to communicate	004	004		
			Printer fault	005	005		
			AC failure	006	006		
			Battery failure	007	007		
			Auxiliary failure	008	008		
		001	Missing PCS module	000	000		
			GSM RF jam supervision	002	002		
			GSM no service	003	003		
			Fail to communicate IPR512 1	004	004		
			Fail to communicate IPR512 2	005	005		
			Fail to communicate IPR512 3	006	006		
			Fail to communicate IPR512 4	007	007		
			Missing voice module	032	032		
		002	Missing IP module	000	000		
			IP no service	001	001		
			Fail to communicate IPR512 1	002	002		
			Fail to communicate IPR512 2	003	003		
			Fail to communicate IPR512 3	004	004		
			Fail to communicate IPR512 4	005	005		
		255	Any module trouble restore event	Not Used	Not Used		
		040	Fail to communicate on telephone number	000	Telephone number	001 to 004	001 to 004
				255	Any telephone number	Not Used	Not Used
041	Low battery on zone	000 255 = any zone #	Zone numbers	001 to 192	001 to 192		
042	Zone supervision trouble			001 to 192	001 to 192		
043	Low battery on zone restored			001 to 192	001 to 192		
044	Zone supervision trouble restored			001 to 192	001 to 192		
045	Special events	000	Power-up after total power down	000	000		
			Software reset (watchdog)	001	001		
			Test report	002	002		
			Listen-in request	003	003		
			WinLoad In (connected)	004	004		
			WinLoad Out (disconnected)	005	005		
			Installer In programming	006	006		
		Installer Out of programming	007	007			
255	Any special event	Not Used	Not Used				
046	Early to arm by user	000	User codes 001 to 255	001 to 255	001 to 255		
		001	User codes 256 to 511	000 to 255	000 to 255		



Table 14: List of event and feature groups (Continued)

A Event Group	Event	B Feature Group	Feature	C Start #	D End #
046 (cont.)	Early to arm by user (cont.)	002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
047	Late to arm by user	000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
048	Utility key	000	Utility key 001 to 064*†	001 to 064	001 to 064
		255	Any utility key*†	Not Used	Not Used
049	Request for exit	000 255 = any door number	Door numbers	001 to 032	001 to 032
050	Access denied			001 to 032	001 to 032
051	Door left open alarm			001 to 032	001 to 032
052	Door forced alarm			001 to 032	001 to 032
053	Door left open restore			001 to 032	001 to 032
054	Door forced open restore			001 to 032	001 to 032
055	Intellizone triggered			000	Zone numbers
		255	Any zone number	Not Used	Not Used
056	Zone excluded on Force arming	000 255 = any zone	Zone numbers	001 to 192	001 to 192
057	Zone went back to arm status		Zone numbers	001 to 192	001 to 192
058	New module assigned on combus	000 255 = any module	Module address	001 to 254	001 to 254
059	Module manually removed from combus		Module address	001 to 254	001 to 254
060	Non-saved event	000	Remote control rejected	000	000
061	Future use	Future use	Future use	Future Use	Future Use
062	Access granted to user	000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
063	Access denied to user	000	Unregistered access code	000	000
		000	User codes 001 to 255	001 to 255	001 to 255
		001	User codes 256 to 511	000 to 255	000 to 255
		002	User codes 512 to 767	000 to 255	000 to 255
		003	User codes 768 to 999	000 to 231	000 to 231
		255	Any user code	Not Used	Not Used
064	Status 1	See Notes for Table 14 on page 20	Armed	000	000
			Force armed	001	001
			Stay armed	002	002
			Instant armed	003	003
			Strobe alarm	004	004
			Silent alarm	005	005
			Audible alarm	006	006
			Fire alarm	007	007
065	Status 2	See Notes for Table 14 on page 20	Ready	000	000
			Exit delay	001	001
			Entry delay	002	002
			System in trouble	003	003
			Alarm in memory	004	004
			Zones bypassed	005	005

Table 14: List of event and feature groups (Continued)

A Event Group	Event	B Feature Group	Feature	C Start #	D End #
065 (cont.)	Status 2 (cont.)	See Notes for Table 14 on page 20	Bypass, master, installer programming	006	006
			Keypad lockout	007	007
066	Status 3	See Notes for Table 14 on page 20	Intellizone delay engaged**	000	000
			Fire delay engaged	001	001
			Auto arm	002	002
			Arming with voice module (set until exit delay finishes)	003	003
			Tamper	004	004
			Zone low battery	005	005
			Fire loop trouble	006	006
			Zone supervision trouble	007	007
067**	Special status	-	Chime in partition 1 to 4 (000 to 003 = system 1 to 4)	000 to 003	000 to 003
			Smoke detector power reset	004	004
			Ground start	005	005
			Kiss off	006	006
			Telephone ring	007	007
			Bell on partition 1 to 8 (008 to 015 = partitions 1 to 8)	008 to 015	008 to 015
			Pulsed alarm in partition 1 to 8 (016 to 023 = partitions 1 to 8)	016 to 023	016 to 023
			Open/close Kiss off in partition 1 to 8 (024 to 031 = partitions 1 to 8)	024 to 031	024 to 031
			Keyswitch/PGM inputs # 01 to 32 (032 to 063 = Keyswitch/PGM inputs # 01 to 32)	032 to 063	032 to 063
			Status of access door 01 to 32 (064 to 095 = access doors 01 to 32)	064 to 095	064 to 095
			Trouble in system	096	096
			Trouble in dialer	097	097
			Trouble in module	098	098
			Trouble in combus	099	099
			Future use	100 to 102	100 to 102
			Time and date trouble	103	103
			AC failure	104	104
			Battery failure	105	105
			Auxiliary current limit	106	106
			Bell current limit	107	107
			Bell absent	108	108
			ROM error	109	109
			RAM error	110	110
			Future use	111	111
			TLM 1 trouble	112	112
			Fail to communicate 1	113	113
			Fail to communicate 2	114	114
			Fail to communicate 3	115	115
			Fail to communicate 4	116	116
			Fail to communicate with PC	117	117
			Future use	118	118
			Future use	119	119
Module tamper trouble	120	120			
Module ROM error	121	121			
Module TLM error	122	122			
Module Failure to communicate	123	123			

Table 14: List of event and feature groups (Continued)

A Event Group	Event	B Feature Group	Feature	C Start #	D End #
067** (cont.)	Special status (cont.)	-	Module printer trouble	124	124
			Module AC failure	125	125
			Module battery trouble	126	126
			Module auxiliary failure	127	127
			Missing keypad	128	128
			Missing module	129	129
			Future use	130 to 132	130 to 132
			Global combus failure	133	133
			Combus overload	134	134
			Future use	135	135
			Dialer relay	136	136
070	Clock	-	-	Hour	Minutes

\* If a keyswitch input is used, the input must be defined as *Generates a Utility Key Event on Open* or *Generates a Utility Key Event on Open and Close*. If a remote control is used, the remote control button must be defined as a utility key button.

\*\* These events or event groups cannot be used for a module's PGM programming.

† Actions that activate a utility key event.

## Utility Keys

Table 15: Description of utility keys

Utility Key Event	Keypad Utility Keys	Keyswitch Inputs (definition = [3])	Keyswitch Inputs (definition = [4])	Remote Control
1	<b>1 &amp; 2</b>	Keyswitch input 1 opens	Keyswitch input 1 opens	Utility key 1 remote control button
2	<b>4 &amp; 5</b>	Keyswitch input 2 opens	Keyswitch input 1 closes	Utility key 2 remote control button
3	<b>7 &amp; 8</b>	Keyswitch input 3 opens	Keyswitch input 2 opens	Utility key 3 remote control button
4	<b>CLEAR &amp; 0</b> or <b>* &amp; 0</b>	Keyswitch input 4 opens	Keyswitch input 2 closes	Utility key 4 remote control button
5	<b>2 &amp; 3</b>	Keyswitch input 5 opens	Keyswitch input 3 opens	Utility key 5 remote control button
6	<b>5 &amp; 6</b>	Keyswitch input 6 opens	Keyswitch input 3 closes	-
7	<b>8 &amp; 9</b>	Keyswitch input 7 opens	Keyswitch input 4 opens	-
8	<b>0 &amp; ENTER</b> or <b>0 &amp; #</b>	Keyswitch input 8 opens	Keyswitch input 4 closes	-
9	-	Keyswitch input 9 opens	Keyswitch input 5 opens	-
10	-	Keyswitch input 10 opens	Keyswitch input 5 closes	-
11	-	Keyswitch input 11 opens	Keyswitch input 6 opens	-
12	-	Keyswitch input 12 opens	Keyswitch input 6 closes	-
13	-	Keyswitch input 13 opens	Keyswitch input 7 opens	-
14	-	Keyswitch input 14 opens	Keyswitch input 7 closes	-
15	-	Keyswitch input 15 opens	Keyswitch input 8 opens	-
16	-	Keyswitch input 16 opens	Keyswitch input 8 closes	-
17	-	Keyswitch input 17 opens	Keyswitch input 9 opens	-
18	-	Keyswitch input 18 opens	Keyswitch input 9 closes	-
↓	-	↓	↓	-
31	-	Keyswitch input 31 opens	Keyswitch input 16 opens	-
32	-	Keyswitch input 32 opens	Keyswitch input 16 closes	-
33	-	-	Keyswitch input 17 opens	-
34	-	-	Keyswitch input 17 closes	-
↓	-	-	↓	-
63	-	-	Keyswitch input 32 opens	-
64	-	-	Keyswitch input 32 closes	-

**NOTE:** Refer to the *RTX3 Reference and Installation Manual* for instructions on how to program remote control buttons.

## Input Speeds

### Worksheet 9: Input Speeds

Section	Data: Decimal Value (001 to 255 x 30 msec.)	Description (Default Setting: 600 msec.)	Section	Data: Decimal Value (001 to 255 x 30 msec.)	Description (Default Setting: 600 msec.)
[0961]	___/___/___	Input speed of input 01	[0969]	___/___/___	Input speed of input 09 (ATZ of input 01)
[0962]	___/___/___	Input speed of input 02	[0970]	___/___/___	Input speed of input 10 (ATZ of input 02)
[0963]	___/___/___	Input speed of input 03	[0971]	___/___/___	Input speed of input 11 (ATZ of input 03)
[0964]	___/___/___	Input speed of input 04	[0972]	___/___/___	Input speed of input 12 (ATZ of input 04)
[0965]	___/___/___	Input speed of input 05	[0973]	___/___/___	Input speed of input 13 (ATZ of input 05)
[0966]	___/___/___	Input speed of input 06	[0974]	___/___/___	Input speed of input 14 (ATZ of input 06)
[0967]	___/___/___	Input speed of input 07	[0975]	___/___/___	Input speed of input 15 (ATZ of input 07)
[0968]	___/___/___	Input speed of input 08	[0976]	___/___/___	Input speed of input 16 (ATZ of input 08)

## Installer Code Programming

### Worksheet 10: Installer Code Programming

Section	Data	Description (Default Setting: 000000)
[1000]	___/___/___/___/___/___	Installer code (refer to section [3001], in worksheet 20 on page 36)

## User Code Options

Use the following section to program access codes when using the K641/K641R or K656 keypads. With this section you can program user codes options, partition assignment, and access control features for users 001 to 999. Always refer to the keypad's respective user manual for additional, pertinent information on how to program users, as well as user labels. Complete user manuals are available on our Web site at [paradox.com](http://paradox.com).

To program user code options:

1. Press and hold **0**.
2. Enter the installer code.
3. Enter the section you wish to program. Sections [1001] to [1999] represent user numbers 001 to 999.
4. In *User Code Options*, set the desired options, by referring to table 16. Press **ENTER** or **▲** to save your settings and advance to the next section.
5. In *User Area Assignment*, set the desired options, by referring to table 17. Press **ENTER** or **▲** to save your settings and advance to the next section.
6. In *Access Level and Schedule Assignment*, enter the desired settings, by referring to figure 1.
7. In *Access Control User Options*, set the desired options, by referring to table 18. Press **ENTER** or **▲** to save your settings and advance to the next section.
8. In *Access Card*, enter the access card's serial number manually, or present the card to the reader which is connected to the keypad.
9. In *Remote Control Assignment*, enter the remote's serial number manually, or press a remote button twice. Remotes can also be assigned using a master code.

Table 16: User options for EVO48/EVO192

Input Value	2	Description (Master Feature)
1	2	
OFF	ON	Disabled
ON	OFF	Master: user can only program user access codes
ON	ON	Full Master: user can program user access codes, options, and assignments
Input Value	Description	
3	Duress	
4	<b>Bypass</b>	
5	Arm only	
6	Stay & Instant	
7	<b>Force</b>	
8	OFF: access keypad's partition only ON: access any partition assigned to user	

Table 17: User area assignment for EVO48/EVO192

Input Value	Description
1	User has access to area 1
2	User has access to area 2
3	User has access to area 3
4	User has access to area 4
5	User has access to area 5
6	User has access to area 6
7	User has access to area 7
8	User has access to area 8

The default setting depends on the programming user's assigned partitions. For example, when a Master user – who is already assigned to partitions 1 and 2 – programs a user code, partitions 1 and 2 will be the default setting for the new user.

Figure 1: Description of the Access Level and Schedule Assignment setting.

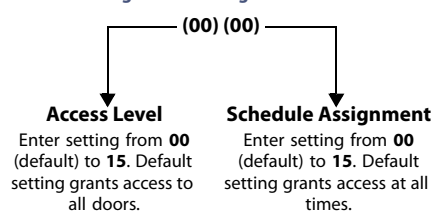


Table 18: Access control user options for EVO48/EVO192

Input Value	Description	
1	Access control	
2	Disarm on access granted	
3	Extended unlock delay on access	
6	Add tolerance window to schedule	
7	Access code follows schedule	
8	OFF: unlock and disarm area(s) on access granted ON: code must be entered at security keypad, to disarm	
Input Value	Description (Arming upon Access Granted)	
4	5	
OFF	OFF	Disabled
ON	OFF	Regular arm
OFF	ON	Stay arm
ON	ON	Force arm

## Arming and Disarming Report Codes

Use the following section to program arming and disarming report codes on your EVO48 or EVO192 control panel. Use worksheet 11 to record your settings. For Ademco Slow, Silent Knight Fast, Sescoa, Ademco Express, or pager formats, key-in desired two-digit hex values from 00 to FF.

### Ademco Format

- Use section [4033] to program a set of default Ademco report codes, using table 44 (*Description of the automatic report codes*), on page 53.
- To program the remaining report codes or change certain defaults, access the individual sections and key-in the desired two-digit hex value, found in table 48 (*List of Ademco contact ID report codes*), on page 58.

### SIA Format

- Use section [4033] to program a set of SIA report codes, using table 44 (*Description of the automatic report codes*), on page 53.
- Codes that have not been set to default can be set as such manually, by entering FF in the appropriate section.
- To disable the reporting of an event, enter 00 in the appropriate section.

### Worksheet 11: Arming and Disarming Report Codes

Section	Access Code	Arming	Section	Access Code	Arming	Section	Access Code	Arming	Section	Access Code	Disarming	Section	Access Code	Disarming	Section	Access Code	Disarming
[2001]	1	___	[2048]	48	___	[2095]	95	___	[2101]	1	___	[2148]	48	___	[2195]	95	___
[2002]	2	___	[2049]	49	___	[2096]	96	___	[2102]	2	___	[2149]	49	___	[2196]	96	___
[2003]	3	___	[2050]	50	___	[2097]	97	___	[2103]	3	___	[2150]	50	___	[2197]	97	___
[2004]	4	___	[2051]	51	___	[2098]	98	___	[2104]	4	___	[2151]	51	___	[2198]	98	___
[2005]	5	___	[2052]	52	___	[2099]	99-999	___	[2105]	5	___	[2152]	52	___	[2199]	99-999	___
[2006]	6	___	[2053]	53	___				[2106]	6	___	[2153]	53	___			
[2007]	7	___	[2054]	54	___				[2107]	7	___	[2154]	54	___			
[2008]	8	___	[2055]	55	___				[2108]	8	___	[2155]	55	___			
[2009]	9	___	[2056]	56	___				[2109]	9	___	[2156]	56	___			
[2010]	10	___	[2057]	57	___				[2110]	10	___	[2157]	57	___			
[2011]	11	___	[2058]	58	___				[2111]	11	___	[2158]	58	___			
[2012]	12	___	[2059]	59	___				[2112]	12	___	[2159]	59	___			
[2013]	13	___	[2060]	60	___				[2113]	13	___	[2160]	60	___			
[2014]	14	___	[2061]	61	___				[2114]	14	___	[2161]	61	___			
[2015]	15	___	[2062]	62	___				[2115]	15	___	[2162]	62	___			
[2016]	16	___	[2063]	63	___				[2116]	16	___	[2163]	63	___			
[2017]	17	___	[2064]	64	___				[2117]	17	___	[2164]	64	___			
[2018]	18	___	[2065]	65	___				[2118]	18	___	[2165]	65	___			
[2019]	19	___	[2066]	66	___				[2119]	19	___	[2166]	66	___			
[2020]	20	___	[2067]	67	___				[2120]	20	___	[2167]	67	___			
[2021]	21	___	[2068]	68	___				[2121]	21	___	[2168]	68	___			
[2022]	22	___	[2069]	69	___				[2122]	22	___	[2169]	69	___			
[2023]	23	___	[2070]	70	___				[2123]	23	___	[2170]	70	___			
[2024]	24	___	[2071]	71	___				[2124]	24	___	[2171]	71	___			
[2025]	25	___	[2072]	72	___				[2125]	25	___	[2172]	72	___			
[2026]	26	___	[2073]	73	___				[2126]	26	___	[2173]	73	___			
[2027]	27	___	[2074]	74	___				[2127]	27	___	[2174]	74	___			
[2028]	28	___	[2075]	75	___				[2128]	28	___	[2175]	75	___			
[2029]	29	___	[2076]	76	___				[2129]	29	___	[2176]	76	___			
[2030]	30	___	[2077]	77	___				[2130]	30	___	[2177]	77	___			
[2031]	31	___	[2078]	78	___				[2131]	31	___	[2178]	78	___			
[2032]	32	___	[2079]	79	___				[2132]	32	___	[2179]	79	___			
[2033]	33	___	[2080]	80	___				[2133]	33	___	[2180]	80	___			
[2034]	34	___	[2081]	81	___				[2134]	34	___	[2181]	81	___			
[2035]	35	___	[2082]	82	___				[2135]	35	___	[2182]	82	___			
[2036]	36	___	[2083]	83	___				[2136]	36	___	[2183]	83	___			
[2037]	37	___	[2084]	84	___				[2137]	37	___	[2184]	84	___			
[2038]	38	___	[2085]	85	___				[2138]	38	___	[2185]	85	___			
[2039]	39	___	[2086]	86	___				[2139]	39	___	[2186]	86	___			
[2040]	40	___	[2087]	87	___				[2140]	40	___	[2187]	87	___			
[2041]	41	___	[2088]	88	___				[2141]	41	___	[2188]	88	___			
[2042]	42	___	[2089]	89	___				[2142]	42	___	[2189]	89	___			
[2043]	43	___	[2090]	90	___				[2143]	43	___	[2190]	90	___			
[2044]	44	___	[2091]	91	___				[2144]	44	___	[2191]	91	___			
[2045]	45	___	[2092]	92	___				[2145]	45	___	[2192]	92	___			
[2046]	46	___	[2093]	93	___				[2146]	46	___	[2193]	93	___			
[2047]	47	___	[2094]	94	___				[2147]	47	___	[2194]	94	___			

## Access Control Sections

Use the following section to program access control features, such as assigning doors, as well as schedule and holiday programming.

### Assigning Doors to the System

These doors are used to program the access levels in sections [2601] to [2615]. If a door must be linked to the alarm system, install a door contact and assign it to a zone (see *Zone Programming* on page 10). Use worksheet 12 to record your settings.

**NOTE:** Under the *Door Numbering* column of worksheet 12, enter the eight-digit serial number of the access control module or keypad.

Table 16: Description of the different door options

Door Option	Name	Description
1	OR/AND door access	Each door can be programmed to grant access only to cards assigned to at least one of the door's partitions ( <i>OR Door Access</i> ), or to cards assigned to all the door's assigned partitions ( <i>AND Door Access</i> ). Enabling option 1 will set the door in <i>OR</i> mode; disabling it will set the door in <i>AND</i> mode.
2	User code access	When option 2 is disabled, the access control door is accessed by presenting the access card to the reader. When option 2 is enabled, a reader is not needed to access the controlled door. To access the controlled door, the user must enter an access code and then press <b>ACC</b> on the K641/K641R keypads, or <b>MENU &gt; 8</b> , and then enter access code, when using the K656 keypad.
3	Card and code access	When option 3 is enabled, both a valid access control card and user access code must be used. The access control card and user access code must belong to the same user. When option 3 is disabled, either a valid access control card or user access code must be used to access the controlled door (keypad with reader, and PosiPIN™ reader only).
4	Restrict arming on door	When option 4 is enabled, that door's reader cannot be used to arm the system, even if the access control card has the arming option enabled.
5	Restrict disarming on door	When option 5 is enabled, that door's reader cannot be used to disarm the system, even if the access control card has the disarming option enabled.

### Worksheet 12: Assigning Doors

Section	Door #	Door Numbering	Door Options					Door Labels				
		Eight-digit Serial Number	Section	Option	Section	Label						
[2201]	1	____/____/____/____/____/____/____/____	[2251]	1	2 3 4 5 * * *	[2301]	____/____/____/____/____/____/____/____					
[2202]	2	____/____/____/____/____/____/____/____	[2252]	1	2 3 4 5 * * *	[2302]	____/____/____/____/____/____/____/____					
[2203]	3	____/____/____/____/____/____/____/____	[2253]	1	2 3 4 5 * * *	[2303]	____/____/____/____/____/____/____/____					
[2204]	4	____/____/____/____/____/____/____/____	[2254]	1	2 3 4 5 * * *	[2304]	____/____/____/____/____/____/____/____					
[2205]	5	____/____/____/____/____/____/____/____	[2255]	1	2 3 4 5 * * *	[2305]	____/____/____/____/____/____/____/____					
[2206]	6	____/____/____/____/____/____/____/____	[2256]	1	2 3 4 5 * * *	[2306]	____/____/____/____/____/____/____/____					
[2207]	7	____/____/____/____/____/____/____/____	[2257]	1	2 3 4 5 * * *	[2307]	____/____/____/____/____/____/____/____					
[2208]	8	____/____/____/____/____/____/____/____	[2258]	1	2 3 4 5 * * *	[2308]	____/____/____/____/____/____/____/____					
[2209]	9	____/____/____/____/____/____/____/____	[2259]	1	2 3 4 5 * * *	[2309]	____/____/____/____/____/____/____/____					
[2210]	10	____/____/____/____/____/____/____/____	[2260]	1	2 3 4 5 * * *	[2310]	____/____/____/____/____/____/____/____					
[2211]	11	____/____/____/____/____/____/____/____	[2261]	1	2 3 4 5 * * *	[2311]	____/____/____/____/____/____/____/____					
[2212]	12	____/____/____/____/____/____/____/____	[2262]	1	2 3 4 5 * * *	[2312]	____/____/____/____/____/____/____/____					
[2213]	13	____/____/____/____/____/____/____/____	[2263]	1	2 3 4 5 * * *	[2313]	____/____/____/____/____/____/____/____					
[2214]	14	____/____/____/____/____/____/____/____	[2264]	1	2 3 4 5 * * *	[2314]	____/____/____/____/____/____/____/____					
[2215]	15	____/____/____/____/____/____/____/____	[2265]	1	2 3 4 5 * * *	[2315]	____/____/____/____/____/____/____/____					
[2216]	16	____/____/____/____/____/____/____/____	[2266]	1	2 3 4 5 * * *	[2316]	____/____/____/____/____/____/____/____					
[2217]	17	____/____/____/____/____/____/____/____	[2267]	1	2 3 4 5 * * *	[2317]	____/____/____/____/____/____/____/____					
[2218]	18	____/____/____/____/____/____/____/____	[2268]	1	2 3 4 5 * * *	[2318]	____/____/____/____/____/____/____/____					
[2219]	19	____/____/____/____/____/____/____/____	[2269]	1	2 3 4 5 * * *	[2319]	____/____/____/____/____/____/____/____					
[2220]	20	____/____/____/____/____/____/____/____	[2270]	1	2 3 4 5 * * *	[2320]	____/____/____/____/____/____/____/____					
[2221]	21	____/____/____/____/____/____/____/____	[2271]	1	2 3 4 5 * * *	[2321]	____/____/____/____/____/____/____/____					
[2222]	22	____/____/____/____/____/____/____/____	[2272]	1	2 3 4 5 * * *	[2322]	____/____/____/____/____/____/____/____					
[2223]	23	____/____/____/____/____/____/____/____	[2273]	1	2 3 4 5 * * *	[2323]	____/____/____/____/____/____/____/____					
[2224]	24	____/____/____/____/____/____/____/____	[2274]	1	2 3 4 5 * * *	[2324]	____/____/____/____/____/____/____/____					
[2225]	25	____/____/____/____/____/____/____/____	[2275]	1	2 3 4 5 * * *	[2325]	____/____/____/____/____/____/____/____					
[2226]	26	____/____/____/____/____/____/____/____	[2276]	1	2 3 4 5 * * *	[2326]	____/____/____/____/____/____/____/____					
[2227]	27	____/____/____/____/____/____/____/____	[2277]	1	2 3 4 5 * * *	[2327]	____/____/____/____/____/____/____/____					
[2228]	28	____/____/____/____/____/____/____/____	[2278]	1	2 3 4 5 * * *	[2328]	____/____/____/____/____/____/____/____					
[2229]	29	____/____/____/____/____/____/____/____	[2279]	1	2 3 4 5 * * *	[2329]	____/____/____/____/____/____/____/____					
[2230]	30	____/____/____/____/____/____/____/____	[2280]	1	2 3 4 5 * * *	[2330]	____/____/____/____/____/____/____/____					
[2231]	31	____/____/____/____/____/____/____/____	[2281]	1	2 3 4 5 * * *	[2331]	____/____/____/____/____/____/____/____					
[2232]	32	____/____/____/____/____/____/____/____	[2282]	1	2 3 4 5 * * *	[2332]	____/____/____/____/____/____/____/____					

## Schedule Programming

Each schedule determines when users are permitted access. Schedules 001 to 015 (sections [2401] to [2415]) are primary schedules. Primary schedules are the only schedules that can be assigned to a user access code. Schedules 016 to 032 (sections [2416] to [2432]) are secondary schedules. Secondary schedules cannot be assigned to a user access code and can only be used as backup schedules. Use worksheet 13 to record your settings for primary schedules and worksheet 14 on page 32, for secondary schedules.

**WARNING: The Start and End Time of a schedule cannot cross over into another day. For example, to program a shift from 10 PM to 6 AM the next morning, you must program the schedule as follows: Schedule A – start time: 22:00 and end time: 23:59; then program Schedule B – start time: 00:00 and end time: 06:00. The schedule will not be interrupted between 23:59 and 00:00.**

### Primary Schedules

#### Worksheet 13: Programming Primary Schedules

Section	Schedule	Interval	Start Time (From)	End Time (To)	Days of the Week (Turn ON or OFF)							
					S	M	T	W	T	F	S	H
[2401]	001	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2402]	002	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2403]	003	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2404]	004	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2405]	005	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2406]	006	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2407]	007	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2408]	008	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2409]	009	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2410]	010	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2411]	011	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2412]	012	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2413]	013	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2414]	014	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[2415]	015	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
		Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8

## Secondary Schedules

### Worksheet 14: Programming Secondary Schedules

Section	Schedule	Interval	Start Time (From)	End Time (To)	Days of the Week (Turn ON or OFF)							
					S	M	T	W	T	F	S	H
[2401]	016	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2402]	017	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2403]	018	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2404]	019	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2405]	020	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2406]	021	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2407]	022	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2408]	023	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2409]	024	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2410]	025	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2411]	026	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2412]	027	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2413]	028	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2414]	029	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2415]	030	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2415]	031	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8
[2415]	032	Schedule A	___ : __	___ : __	1	2	3	4	5	6	7	8
		Schedule B	___ : __	___ : __	1	2	3	4	5	6	7	8

## Backup Schedules

Each programmed schedule (see *Schedule Programming* on page 31) can be backed-up or linked to another schedule. The backup will be used in the event that the first schedule is invalid. In worksheet 15, enter the three-digit number of the schedule you wish to use as the backup. For instance, if you wish to back-up Schedule 001 to Schedule 011, enter **011** in section **[2501]**.

The control panel will verify up to eight linked schedules, one after another, until it determines whether the card or code is valid. For example, if Schedule 001 is linked to Schedule 005, and Schedule 005 is linked to Schedule 030, then the control panel will verify Schedules 001, 005 and 030.

### Worksheet 15: Programming Backup Schedules

Section	Schedule	Backup Schedule	Section	Schedule	Backup Schedule
[2501]	001	___/___/___	[2517]	017	___/___/___
[2502]	002	___/___/___	[2518]	018	___/___/___
[2503]	003	___/___/___	[2519]	019	___/___/___
[2504]	004	___/___/___	[2520]	020	___/___/___
[2505]	005	___/___/___	[2521]	021	___/___/___
[2506]	006	___/___/___	[2522]	022	___/___/___
[2507]	007	___/___/___	[2523]	023	___/___/___
[2508]	008	___/___/___	[2524]	024	___/___/___
[2509]	009	___/___/___	[2525]	025	___/___/___
[2510]	010	___/___/___	[2526]	026	___/___/___
[2511]	011	___/___/___	[2527]	027	___/___/___
[2512]	012	___/___/___	[2528]	028	___/___/___
[2513]	013	___/___/___	[2529]	029	___/___/___
[2514]	014	___/___/___	[2530]	030	___/___/___
[2515]	015	___/___/___	[2531]	031	___/___/___
[2516]	016	___/___/___	[2532]	032	___/___/___



### Access Levels

Each access level is a combination of access control doors. For example, if option 1 in the first screen is enabled in section [2601], Level 01 will allow access only to Door 01. Use worksheet 16 to record your settings.

#### Worksheet 16: Programming Access Levels

Section	Level	Access to Doors (Turn ON or OFF access)																															
		First Screen (Doors 01 to 08)								Second Screen (Doors 09 to 16)								Third Screen (Doors 17 to 24)								Fourth Screen (Doors 25 to 32)							
[2601]	01	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2602]	02	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2603]	03	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2604]	04	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2605]	05	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2606]	06	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2607]	07	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2608]	08	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2609]	09	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2610]	10	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2611]	11	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2612]	12	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2613]	13	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2614]	14	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
[2615]	15	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8

### Holidays

When H is enabled in a schedule, access is permitted to users during the days programmed in the sections below. Use worksheet 17 to record your settings.

#### Worksheet 17: Programming Holidays

Section	Month	Days																															
		First Screen (Days 01 to 08)								Second Screen (Days 09 to 16)								Third Screen (Days 17 to 24)								Fourth Screen (Days 25 to 31)							
[2701]	January	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	*
[2702]	February	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	*
[2703]	March	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	*
[2704]	April	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	*
[2705]	May	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	*
[2706]	June	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	*
[2707]	July	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	*
[2708]	August	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	*
[2709]	September	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	*
[2710]	October	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	*
[2711]	November	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	*
[2712]	December	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	*

### Keypad Numbering

Use the following section to number the different keypads configured to your system.

Sections [2801] to [2832] are used solely for the purpose of identifying a keypad in the event buffer. Enter the eight-digit serial number of the keypad you wish to label as Keypad x, where x represents numbers 1 to 32 (e.g., Keypad 12). The event buffer will then display any events pertaining to this keypad, as Keypad 12. Use worksheet 18 on page 34 to record your settings.

**Worksheet 18: Numbering Keypads**

Section	Keypad #	Eight-digit Serial Number	Section	Keypad #	Eight-digit Serial Number
[2801]	1	____/____/____/____/____/____/____/____	[2817]	17	____/____/____/____/____/____/____/____
[2802]	2	____/____/____/____/____/____/____/____	[2818]	18	____/____/____/____/____/____/____/____
[2803]	3	____/____/____/____/____/____/____/____	[2819]	19	____/____/____/____/____/____/____/____
[2804]	4	____/____/____/____/____/____/____/____	[2820]	20	____/____/____/____/____/____/____/____
[2805]	5	____/____/____/____/____/____/____/____	[2821]	21	____/____/____/____/____/____/____/____
[2806]	6	____/____/____/____/____/____/____/____	[2822]	22	____/____/____/____/____/____/____/____
[2807]	7	____/____/____/____/____/____/____/____	[2823]	23	____/____/____/____/____/____/____/____
[2808]	8	____/____/____/____/____/____/____/____	[2824]	24	____/____/____/____/____/____/____/____
[2809]	9	____/____/____/____/____/____/____/____	[2825]	25	____/____/____/____/____/____/____/____
[2810]	10	____/____/____/____/____/____/____/____	[2826]	26	____/____/____/____/____/____/____/____
[2811]	11	____/____/____/____/____/____/____/____	[2827]	27	____/____/____/____/____/____/____/____
[2812]	12	____/____/____/____/____/____/____/____	[2828]	28	____/____/____/____/____/____/____/____
[2813]	13	____/____/____/____/____/____/____/____	[2829]	29	____/____/____/____/____/____/____/____
[2814]	14	____/____/____/____/____/____/____/____	[2830]	30	____/____/____/____/____/____/____/____
[2815]	15	____/____/____/____/____/____/____/____	[2831]	31	____/____/____/____/____/____/____/____
[2816]	16	____/____/____/____/____/____/____/____	[2832]	32	____/____/____/____/____/____/____/____

**Remote Control Programming**

Use the following section to program the various remote controls in your EVO system.

It is possible to configure up to 16 different button templates, which are then assigned to individual users. Each user is pre-programmed with a default button pattern for their remote control: (1 B) (C 0) (template 0).

**NOTE:** Button definitions and partition/one-touch definitions are linked together to create a button template. For example, Template 0 is comprised of button definition [2900] together with partition/one-touch definition [2916].

**Remote Control Templates**

To use REM3 templates:

1. Define the 16-button definitions in sections [2900] to [2915].
2. Define the 16-partition/one-touch definitions in sections [2916] to [2931].
3. Define which button template is used as the default for remotes in section [2940].
4. Assign button templates to users in section [2941].

Use the information in tables 17 and 18, as well as figure 2, to enter data in worksheet 19 on page 35.

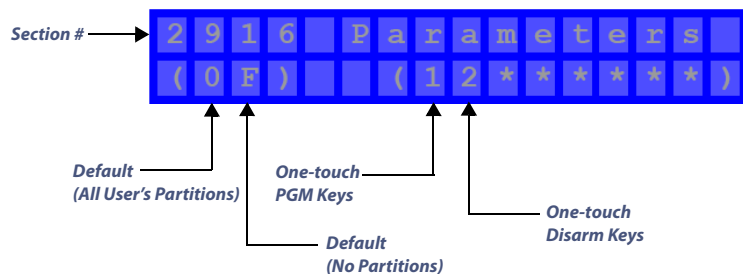
**Table 17: Template data for remote control programming**

Entry		Function
K641/K641R	K656	
0	0	Button disabled
1	1	Regular arm
2	2	Stay arm
3	3	Instant arm
4	4	Force arm
5	5	Utility key 5
6	6	Utility key 6
7	7	-
8	8	Panic 1
9	9	Panic 2
A = STAY	A = ARM	Panic 3
B = FORCE	B = SLEEP	Utility key 1
C = ARM	C = STAY	Utility key 2
D = DISARM	D = OFF	Utility key 3
E = BYP	E = MENU	Utility key 4
F = MEM	F = ☐	-





**Table 18: Test PGMs and their section numbers**



Section	Name	Description
[2940]	Default button template	To select a button template as the default template, enter <b>00</b> to <b>15</b> , representing button templates in sections [2900] to [2915].
[2941]	Assign button template	To assign a button template to a user, select the user when prompted, then enter <b>00</b> to <b>15</b> , representing button templates in sections [2900] to [2915]. If user <i>000</i> is selected, all users are modified.

**Figure 2: Entering data for section [2916] on a LCD keypad (use for worksheet 19 on page 35).**



**Worksheet 19: Programming Remote Controls**

		REM3 Remote Control								REM1/REM2/RAC1/RAC2				
		PGM 1 [9]	PGM 2 [0]	PGM 3 [x]	PGM 4 [✓]	PGM 5 [●]	PGM 6 [●]	PGM 3 & 4 [x] + [✓]	PGM 5 & 6 [●] + [●]					
Default Data		1*	B*	C*	0*	5	6	0	0	1	B	C	Disabled	
Template	Section									Section				
0	[2900]	---	---	---	---	---	---	---	---	[2900]	---	---	---	---
1	[2901]	---	---	---	---	---	---	---	---	[2901]	---	---	---	---
2	[2902]	---	---	---	---	---	---	---	---	[2902]	---	---	---	---
3	[2903]	---	---	---	---	---	---	---	---	[2903]	---	---	---	---
4	[2904]	---	---	---	---	---	---	---	---	[2904]	---	---	---	---
5	[2905]	---	---	---	---	---	---	---	---	[2905]	---	---	---	---
6	[2906]	---	---	---	---	---	---	---	---	[2906]	---	---	---	---
7	[2907]	---	---	---	---	---	---	---	---	[2907]	---	---	---	---
8	[2908]	---	---	---	---	---	---	---	---	[2908]	---	---	---	---
9	[2909]	---	---	---	---	---	---	---	---	[2909]	---	---	---	---
10	[2910]	---	---	---	---	---	---	---	---	[2910]	---	---	---	---
11	[2911]	---	---	---	---	---	---	---	---	[2911]	---	---	---	---
12	[2912]	---	---	---	---	---	---	---	---	[2912]	---	---	---	---
13	[2913]	---	---	---	---	---	---	---	---	[2913]	---	---	---	---
14	[2914]	---	---	---	---	---	---	---	---	[2914]	---	---	---	---
15	[2915]	---	---	---	---	---	---	---	---	[2915]	---	---	---	---

		Partitions **		One-touch Keys	
				One-touch PGM Keys	One-touch Disarm Keys
Default Data		Default = 0 (All user's partitions)	Default = F (No partitions)	▲ = Disabled (default) □ = Enabled	
Template	Section				
0	[2916]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
1	[2917]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
2	[2918]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
3	[2919]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
4	[2920]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
5	[2921]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
6	[2922]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
7	[2923]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
8	[2924]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
9	[2925]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
10	[2926]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
11	[2927]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
12	[2928]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
13	[2929]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
14	[2930]	---	---	<input type="checkbox"/>	<input type="checkbox"/>
15	[2931]	---	---	<input type="checkbox"/>	<input type="checkbox"/>

\* REM1/RAC1 and REM2/RAC2 remotes only use the data in these columns.

\*\* If 0 is entered, the associated buttons will control all partitions to which the user is assigned. If F is entered, the associated buttons will be disabled.



Table 18: Description of sections [3029] to [3035] (Continued)

Section	Option	Description	OFF	ON
Section [3033] System Options 3	1	Multiple actions in user menu	▲ Disabled	□ Enabled
	2	User code length	▲ Fixed	□ Flexible
	3	User code length (if option 2 is OFF)	▲ 4 digits	□ 6 digits
	4	Power save mode	□ Disabled	▲ Enabled
	5	Bypass not displayed while system is armed	□ Disabled	▲ Enabled
	6	Trouble latch	▲ Disabled	□ Enabled
	7	EOL resistor on hardwire zones	▲ Disabled	□ Manually
	8	Zone doubling (ATZ)	▲ Disabled	□ Enabled
Section [3035] System Options 5	1	Restrict arming on AC failure	▲ Disabled	□ Enabled
	2	Restrict arming on battery failure	▲ Disabled	□ Enabled
	3	Restrict arming on bell or auxiliary failure	▲ Disabled	□ Enabled
	4	Restrict arming on TLM failure	▲ Disabled	□ Enabled
	5	Restrict arming on module troubles	▲ Disabled	□ Enabled
	6	Account number transmission	▲ Partition #	□ Tel #
	7	Transmit zone status on serial port**	▲ Disabled	□ Enabled
	8	Serial port baud rate	□ 38,400	▲ 57,600
Section [3034] System Options 4	1 & 2	Wireless Transmitter Supervision Options (see table 19)	□ See table 19	□ See table 19
	3	Generate supervision failure if detected on a bypassed wireless zone	▲ Yes	□ No
	4	Restrict arming on a wireless transmitter supervision failure	▲ Disabled	□ Enabled
	5 & 6	Zone & Module Tamper Recognition Options (see table 20)	□ See table 20	□ See table 20
	7	Generate tamper if detected on bypass zone	□ Yes	▲ No
	8	Restrict arming on tamper trouble	▲ Disabled	□ Enabled

▲ = Default

\* When the combus speed is changed, all operations on the system will be suspended for approximately one minute, while the system adjusts itself.

\*\* This option is used by certain event monitoring softwares, such as Hyperterminal. With WinLoad and printers, it is always being transmitted.

**WARNING:** In option 4 of section [3030], a 40 VA transformer is required when selecting the 850 mA battery charge current. Using a 20 VA transformer with a battery charge current of 850 mA may damage the system.

Table 19: Wireless transmitter supervision options; options 1 and 2 for section [3034]

Option		Description
1	2	
OFF	OFF	Disabled (default)
OFF	ON	Generates trouble only (when armed or disarmed)
ON	OFF	When armed: follows zone types (see <i>Zone Programming</i> on page 10) When disarmed: generates trouble only
ON	ON	When armed: follows zone types (see <i>Zone Programming</i> on page 10) When disarmed: generates audible alarm

Table 20: Zone and module tamper recognition options; options 5 and 6 for section [3034]

Option		Description
5	6	
OFF	OFF	Disabled (default)
OFF	ON	Generates trouble only (when armed or disarmed)
ON	OFF	When armed: follows zone types (see <i>Zone Programming</i> on page 10) for zone tamper; generates trouble for module tamper When disarmed: generates trouble only
ON	ON	When armed: follows zone types (see <i>Zone Programming</i> on page 10) When disarmed: generates audible alarm

**NOTE:** For instructions on wiring a panel for tamper recognition, refer to the *Digiplex EVO Reference and Installation Manual* (available online only).

## Dialer Options

Use the following section to program dialer options on your EVO system. Table 21 provides information on sections [3036] and [3037].

**Table 21: Description of sections 3036 to 3037**

Section	Option	Description	OFF	ON	Section	Option	Description	OFF	ON		
Section [3036] Dialer Options 1	1 & 2	Telephone line monitoring (TLM; see table 22)	<input type="checkbox"/>	See table 22	<input type="checkbox"/>	Section [3037] Dialer Options 2	1	Call back	▲ Disabled	<input type="checkbox"/> Enabled	
	3	Dialer (reporting to monitoring station)	▲ Disabled	<input type="checkbox"/> Enabled	2		Automatic event buffer transmission	▲ Disabled	<input type="checkbox"/> Enabled		
	4	Dialing method	<input type="checkbox"/> Pulse	▲ Tone (DTMF)	3 & 4		AutoTest report transmission options (see <i>AutoTest Report Settings</i> on page 39)	<input type="checkbox"/>	See table 23	<input type="checkbox"/>	See table 23
	5	Pulse ratio (E.U. = Europe; N.A. = North America)	<input type="checkbox"/> 1:2 (E.U.)	▲ 1:1.5 (N.A.)	5		Keypad beep on successful arming/disarming report	▲ Disabled	<input type="checkbox"/> Enabled		
	6	Busy tone detection	<input type="checkbox"/> Disabled	▲ Enabled	6		Alternate dialing	▲ Disabled	<input type="checkbox"/> Enabled		
	7	Switch to pulse dialing on fifth attempt	▲ Disabled	<input type="checkbox"/> Enabled	7		Dial tone delay (if no dial tone)	▲ Force dial	<input type="checkbox"/> Hang up		
	8	Bell/siren upon communication failure, if system is armed	▲ Disabled	<input type="checkbox"/> Enabled	8		Report zone restore ON = Upon zone closure OFF = Upon bell cut-off	▲ Disabled	<input type="checkbox"/> Enabled		

▲ = Default

**Table 22: Telephone line monitoring (TLM) options; options 1 and 2 for section [3036]**

Option		Description
1	2	
OFF	OFF	Disabled (default)
OFF	ON	When armed: generates an audible alarm
ON	OFF	When armed: generates a trouble
ON	ON	TLM silent alarm: becomes an audible alarm

**Table 23: AutoTest report transmission options; options 3 and 4 for section [3037]**

Option		Description
3	4	
OFF	OFF	Transmit the test report code every time the days programmed in section [3040] have elapsed, at the time programmed in section [3041]; (default)
OFF	ON	When armed: transmit test report code every time the time programmed in section [3042] has elapsed When disarmed: transmit test report code every time the time programmed in section [3043] has elapsed
ON	OFF	The control panel will transmit the test report code every hour, on the minute value programmed in section [3041] (the last two digits); the first two digits of section [3041] will be ignored; for example, if 10:25 was programmed in section [3041], the test report code would be transmitted at the 25th minute of every hour; i.e., 11:25, 12:25, etc.
ON	ON	The test report code will be transmitted when one or more of the conditions of the second and third options, listed above, are met; i.e., option 3 = OFF and option 4 = ON, or option 3 = ON and option 4 = OFF

## Additional Options

Use the following section to program additional options on your EVO system. Table 24 provides information on sections [3038]. Use worksheets 21, 22, and 23 to record your settings.

Table 24: Description of section [3038]

Section	Option	Description	OFF		ON	
Section [3038] Access Control Options	1	Access control feature	▲	Disabled	<input type="checkbox"/>	Enabled
	2	Log <i>Request for Exit</i> in event buffer*	▲	Disabled	<input type="checkbox"/>	Enabled
	3	Log <i>Door Left Open Restore</i> in event buffer	▲	Disabled	<input type="checkbox"/>	Enabled
	4	Log <i>Door Forced Restore</i> in event buffer	▲	Disabled	<input type="checkbox"/>	Enabled
	5	Burglar alarm on forced door	▲	Disabled	<input type="checkbox"/>	Enabled
	6	Skip exit delay when arming with access card	▲	Disabled	<input type="checkbox"/>	Enabled
	7	Burglar alarm on door left open	▲	Disabled	<input type="checkbox"/>	Enabled
	8	Who has access during clock loss	▲	All users	<input type="checkbox"/>	Masters*

▲ = Default  
\* Also includes users with 00 for schedule access.

**WARNING:** Since *Request for Exit* events can occur often, the event buffer may fill up quickly.

### Schedule Tolerance Window

#### Worksheet 21: Schedule Tolerance Window

Section	Data	Description	Default Setting
[3039]	___/___/___ (x 1 min.)	Schedule tolerance window	000

### AutoTest Report Settings

#### Worksheet 22: AutoTest Report Settings

Section	Data	Description	Default Setting
[3040]	___/___/___ (x 1 day; 000 = disabled)	Schedule tolerance window	000
[3041]	___/___ : ___/___ (hr. 00-23 & min. 00-59)	AutoTest report time of day	00:00
[3042]	___/___/___ (000-255 x 1 min.)	Armed report delay	5 minutes
[3043]	___/___/___ (000-255 x 1 min.)	Disarmed report delay	60 minutes

**NOTE:** Refer to table 23 on page 38 for details

### Timings

#### Worksheet 23: Timings Settings

Section	Data	Description	Default Setting
[3051]	___/___/___ (000-255)	Ring counter	008
[3052]	___/___/___ (000-255 x 4 sec.)	Answering machine delay override delay	32 seconds
[3053]	___/___/___ (000-255 x 2sec.)	TLM fail timer	32 seconds
[3054]	___/___/___ (000-127 x 1sec.)	Delay between dialing attempts	20 seconds
[3055]	___/___/___ (000-255 x 1 sec.; 000 = instant report)	Delay alarm transmission timer	000
[3056]	___/___/___ (000-255 x 1 attempt)	Maximum dialing attempts	8 attempts
[3057]	___/___/___ (000-127 x 1 second)	Pager delay before data transmission	20 seconds
[3058]	___/___/___ (000-255 x 1 min.; 000 = instant report)	Delay power failure report	30 minutes
[3059]	___/___/___ (000-255 x 1 repeat; 000 = no repeat)	Repeat pager report code transmission	000
[3060]	___/___/___ (000-255 x 1 min.)	Power failure restore delay report	030 minutes

## Communication Settings

Use the following section to program communication settings on your EVO system.

### Account Numbers

Use worksheet 24 on page 40 to record your settings.

**WARNING:** Only the SIA format supports the 0 = 0 digit in its account numbers. Account numbers that use other reporting formats do not support the 0 = 0 digit. In its place, enter A by pressing STAY (for the K641/K641R keypads), or by pressing ARM (for the K656 keypad). When using the SIA format, and the *account number transmission* (see option 6, in section [3035] on page 37) corresponds to the partition, the control panel only uses the *partition 1 account number* programmed in section [3061], but the report code includes the partition number.







**Table 29: Description of sections [3133] to [3833]**

Option	Description	Partition 1 [3133]		Partition 2 [3233]		Partition 3 [3333]		Partition 4 [3433]		Partition 5 [3533]		Partition 6 [3633]		Partition 7 [3733]		Partition 8 [3833]	
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON
1	Telephone number 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Telephone number 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Telephone number 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Telephone number 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Telephone number 5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Telephone number 6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Telephone number 7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Telephone number 8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

▲= Default

### PCS GSM/GPRS Communicator Module

Use the following section to program the PCS GSM/GPRS Communicator Module on your EVO system. Use worksheets 29 to 38 to record your settings.

#### WinLoad/PCS Module Connection

##### Worksheet 29: WinLoad/PCS Module Connection Settings

Section	Data	Description
[2960]	____/____	Access point name (APN) part 1 (e.g., internet.com)
[2961]	____/____	Access point name (APN) part 2 (e.g., wap.provider.com)
[2962]	____/____	User name part 1
[2963]	____/____	User name part 2
[2964]	____/____	Password part 1
[2965]	____/____	Password part 2
[2966]	____/____/____/____	Port (default = 10000)
[3013]	____/____	Installer software password (WinLoad) (default = admin)

#### PCS Module Programming

**Table 30: Section [2950] GSM Options**

Option		Description (GSM Reporting)		Option		Description
1	2	Primary	Backup	3 & 4		Future use
<b>OFF</b>	<b>OFF</b>	Landline	Landline	7		Future use
OFF	ON	Landline	GSM	8		GSM RF jamming supervision
ON	OFF	GSM	Landline	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled	
ON	ON	GSM	GSM	▲= Default		
5	6	Description (GSM/GPRS No Service Trouble Feedback)				
OFF	OFF	Disabled				
<b>ON</b>	<b>OFF</b>	When disarmed: trouble only; when armed: trouble only				
OFF	ON	When disarmed: trouble only; when armed: audible only				
ON	ON	Silent alarm becomes audible alarm				

#### PCS Module (GSM) Programming

##### Worksheet 30: PCS Module (GSM) Settings

Section	Data	Description
[2951]	____/____	Default: 00 Panel supervision lost (reporting code)
[2952]	____/____/____ (000 to 255) x 2 seconds	GSM no service timer (default: 016)
[2953]	____/____/____ (000 to 255)	SMS language (default: 000)

Table 31: SMS Language ID

ID	Language	ID	Language	ID	Language	ID	Language
000	English	006	Portuguese	012	Croatian	018	Slovak
001	French	007	German	013	Greek	019	Chinese
002	Spanish	008	Turkish	014	Hebrew	020	Serbian
003	Italian	009	Hungarian	015	Russian	021 to 255	Future use
004	Swedish	010	Czech	016	Bulgarian		
005	Polish	011	Dutch	017	Romanian		

## SMS Site Name

### Worksheet 31: SMS Site Name Settings

Section	Label
[2954]	____/____/____/____/____/____/____/____/____/____

## IP100/PCS Module (GPRS) Options

Table 32: Section [2975] IP/GPRS Options

Option		Description
5	6	(IP No Service Trouble Feedback)
OFF	OFF	Disabled
<b>ON</b>	<b>OFF</b>	When disarmed: trouble only; when armed: trouble only
OFF	ON	When disarmed: trouble only; when armed: audible alarm
ON	ON	Silent alarm becomes audible alarm
Option		Description
7		Use dialer reporting
OFF	ON	
▲ As IP/GPRS reporting backup	<input type="checkbox"/> In addition to IP/GPRS reporting	
8		Enable IP/GPRS reporting
OFF	ON	
▲ Disabled	<input type="checkbox"/> Enabled	

## IP/GPRS Reporting Account Programming

### Worksheet 32: IP Account Number Settings

Section	Data	Description
[2976]	____/____/____	IP account partition 1/account 1 number
[2977]	____/____/____	IP account partition 2/account 2 number
[2978]	____/____/____	IP account partition 3/account 3 number
[2979]	____/____/____	IP account partition 4/account 4 number
[2980]	____/____/____	IP account partition 5/account 5 number
[2981]	____/____/____	IP account partition 6/account 6 number
[2982]	____/____/____	IP account partition 7/account 7 number
[2983]	____/____/____	IP account partition 8/account 8 number

### Worksheet 33: IP Receiver 1 Configuration

Section	Data	Description
	____/____/____.____/____/____.____/____/____.____/____/____	WAN1 IP address (e.g., 100.100.100.100); for one or two-digit numbers, add 0s before the first digit
	____/____/____	WAN1 IP port (default: 10000)
[2984]	____/____/____.____/____/____.____/____/____.____/____/____	WAN2 IP address
	____/____/____	WAN2 IP port
	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____	IP password (e.g., 123456)
	____/____	IP profile (e.g., 01)
[2985]	To register IP/GPRS module, press <b>ARM</b>	

**Worksheet 34: IP Receiver 2 Configuration**

Section	Data	Description
	___/___ . ___/___ . ___/___ . ___/___	WAN1 IP address (e.g., 100.100.100.100); for one or two-digit numbers, add 0s before the first digit
	___/___	WAN1 IP port (default: 10000)
[2986]	___/___ . ___/___ . ___/___ . ___/___	WAN2 IP address
	___/___	WAN2 IP port
	___/___/___/___/___/___/___/___/___/___/___/___/___/___	IP password (e.g., 123456)
	___/___	IP profile (e.g., 01)
[2987]	To register IP/GPRS module, press <b>ARM</b>	

**Worksheet 35: IP Receiver 3 Configuration**

Section	Data	Description
	___/___ . ___/___ . ___/___ . ___/___	WAN1 IP address (e.g., 100.100.100.100); for one or two-digit numbers, add 0s before the first digit
	___/___	WAN1 IP port (default: 10000)
[2988]	___/___ . ___/___ . ___/___ . ___/___	WAN2 IP address
	___/___	WAN2 IP port
	___/___/___/___/___/___/___/___/___/___/___/___/___/___	IP password (e.g., 123456)
	___/___	IP profile (e.g., 01)
[2989]	To register IP/GPRS module, press <b>ARM</b>	

**Worksheet 36: IP Receiver 4 Configuration**

Section	Data	Description
	___/___ . ___/___ . ___/___ . ___/___	WAN1 IP address (e.g., 100.100.100.100); for one or two-digit numbers, add 0s before the first digit
	___/___	WAN1 IP port (default: 10000)
[2990]	___/___ . ___/___ . ___/___ . ___/___	WAN2 IP address
	___/___	WAN2 IP port
	___/___/___/___/___/___/___/___/___/___/___/___/___/___	IP password (e.g., 123456)
	___/___	IP profile (e.g., 01)
[2991]	To register IP/GPRS module, press <b>ARM</b>	

**IP100/PCS Module Report Code Programming**

**Worksheet 37: PCS Module Report Codes**

Section	Data	Description
	___/___	Missing GSM module
[2967]	___/___	Missing GSM module restore
	___/___	Future use
	___/___	Future use
[2968]	___/___	GSM RF jam
	___/___	GSM RF jam restore
	___/___	GSM no service
	___/___	GSM no service restore
[2969]	___/___	Fail to communicate IPR512 1
	___/___	Fail to communicate IPR512 1 restore
	___/___	Fail to communicate IPR512 2
	___/___	Fail to communicate IPR512 2 restore
[2970]	___/___	Fail to communicate IPR512 3
	___/___	Fail to communicate IPR512 3 restore
	___/___	Fail to communicate IPR512 4
	___/___	Fail to communicate IPR512 4 restore

**Worksheet 38: IP100 Report Codes**

Section	Data	Description
	___/___	Missing IP module
[2992]	___/___	Missing IP Restore
	___/___	IP no service
	___/___	IP no service restore
[2993]	___/___	Fail to communicate IPR512 1
	___/___	Fail to communicate IPR512 1 restore
	___/___	Fail to communicate IPR512 2
	___/___	Fail to communicate IPR512 2 restore
	___/___	Fail to communicate IPR512 3
[2994]	___/___	Fail to communicate IPR512 3 restore
	___/___	Fail to communicate IPR512 4
	___/___	Fail to communicate IPR512 4 restore

## Partition Settings

Use the following section to program the various partitions on your EVO system. Use worksheet 39 to 45 to record your settings.

### Worksheet 39: Partition Label Settings for Sections [3100] to [3800]

Section	Partition Label	Partition #
[3100]	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____/____	1
[3200]	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____/____	2
[3300]	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____/____	3
[3400]	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____/____	4
[3500]	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____/____	5
[3600]	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____/____	6
[3700]	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____/____	7
[3800]	____/____/____/____/____/____/____/____/____/____/____/____/____/____/____/____	8

## Auto-arm Times

### Worksheet 40: Auto-arm Time Settings

Section	Data (Hours 00-23; Minutes (00-59))	Partition #	Section	Data (Hours 00-23; Minutes (00-59))	Partition #
[3101]	__/__: __/___	1	[3501]	__/__: __/___	5
[3201]	__/__: __/___	2	[3601]	__/__: __/___	6
[3301]	__/__: __/___	3	[3701]	__/__: __/___	7
[3401]	__/__: __/___	4	[3801]	__/__: __/___	8

## Arming/Disarming Report Schedules

### Worksheet 41: Arming Report Schedule Settings

Section	Partition #	Schedule	Interval	Start Time (From)	End Time (To)	Days of the Week (Turn ON or OFF)							
						S	M	T	W	T	F	S	H
[3102]	1	001	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
			Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[3202]	2	002	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
			Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[3302]	3	003	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
			Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[3402]	4	004	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
			Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[3502]	5	005	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
			Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[3602]	6	006	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
			Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[3702]	7	007	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
			Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8
[3802]	8	008	Schedule A	____ : ____	____ : ____	1	2	3	4	5	6	7	8
			Schedule B	____ : ____	____ : ____	1	2	3	4	5	6	7	8

**NOTE:** If a partition is armed outside a schedule, the panel will send an *Early to Close* [3916] and/or *Late to Close* [3917] report code (see worksheet 46 on page 51).

## Worksheet 42: Disarming Report Schedule Settings

Section	Partition #	Schedule	Interval	Start Time (From)	End Time (To)	Days of the Week (Turn ON or OFF)							
						S	M	T	W	T	F	S	H
[3103]	1	001	Schedule A	___:___	___:___	1	2	3	4	5	6	7	8
			Schedule B	___:___	___:___	1	2	3	4	5	6	7	8
[3203]	2	002	Schedule A	___:___	___:___	1	2	3	4	5	6	7	8
			Schedule B	___:___	___:___	1	2	3	4	5	6	7	8
[3303]	3	003	Schedule A	___:___	___:___	1	2	3	4	5	6	7	8
			Schedule B	___:___	___:___	1	2	3	4	5	6	7	8
[3403]	4	004	Schedule A	___:___	___:___	1	2	3	4	5	6	7	8
			Schedule B	___:___	___:___	1	2	3	4	5	6	7	8
[3503]	5	005	Schedule A	___:___	___:___	1	2	3	4	5	6	7	8
			Schedule B	___:___	___:___	1	2	3	4	5	6	7	8
[3603]	6	006	Schedule A	___:___	___:___	1	2	3	4	5	6	7	8
			Schedule B	___:___	___:___	1	2	3	4	5	6	7	8
[3703]	7	007	Schedule A	___:___	___:___	1	2	3	4	5	6	7	8
			Schedule B	___:___	___:___	1	2	3	4	5	6	7	8
[3803]	8	008	Schedule A	___:___	___:___	1	2	3	4	5	6	7	8
			Schedule B	___:___	___:___	1	2	3	4	5	6	7	8

**NOTE:** If partition is disarmed outside schedule, panel will send an *Early to Open* [3926] and/or *Late to Open* [3927] report code (see worksheet 46 on page 51).

## Partition Timers

## Worksheet 43: Partition Timer Settings

Description (Decimal Values from 000 to 255)	Partition 1		Partition 2		Partition 3		Partition 4		Partition 5		Partition 6		Partition 7		Partition 8	
	Section	Data	Section	Data	Section	Data	Section	Data	Section	Data	Section	Data	Section	Data	Section	Data
<b>Arming/disarming schedule tolerance window</b> (Data x 1 min.; default: 000)	[3104]	__/_/	[3204]	__/_/	[3304]	__/_/	[3404]	__/_/	[3504]	__/_/	[3604]	__/_/	[3704]	__/_/	[3804]	__/_/
<b>Number of invalid codes before lockout</b> (Data x 1 attempt; default: 005)	[3105]	__/_/	[3205]	__/_/	[3305]	__/_/	[3405]	__/_/	[3505]	__/_/	[3605]	__/_/	[3705]	__/_/	[3805]	__/_/
<b>Keypad lockout duration</b> (Data x 1 min.; Report only: 000; Default: 015)	[3106]	__/_/	[3206]	__/_/	[3306]	__/_/	[3406]	__/_/	[3506]	__/_/	[3606]	__/_/	[3706]	__/_/	[3806]	__/_/
<b>No movement timer</b> (Data x 5 min.; Default: disabled)	[3107]	__/_/	[3207]	__/_/	[3307]	__/_/	[3407]	__/_/	[3507]	__/_/	[3607]	__/_/	[3707]	__/_/	[3807]	__/_/
<b>Exit delay timer</b> (Data x 1 sec.; Default: 060 sec.)	[3108]	__/_/	[3208]	__/_/	[3308]	__/_/	[3408]	__/_/	[3508]	__/_/	[3608]	__/_/	[3708]	__/_/	[3808]	__/_/
<b>Recent closing delay</b> (Data x 1 sec.; Default: disabled)	[3109]	__/_/	[3209]	__/_/	[3309]	__/_/	[3409]	__/_/	[3509]	__/_/	[3609]	__/_/	[3709]	__/_/	[3809]	__/_/
<b>Intellizone delay</b> (Data x 1 sec.; default: 032 sec.)	[3110]	__/_/	[3210]	__/_/	[3310]	__/_/	[3410]	__/_/	[3510]	__/_/	[3610]	__/_/	[3710]	__/_/	[3810]	__/_/
<b>Entry delay 1</b> (Data x 1 sec.; default: 030 sec.)	[3111]	__/_/	[3211]	__/_/	[3311]	__/_/	[3411]	__/_/	[3511]	__/_/	[3611]	__/_/	[3711]	__/_/	[3811]	__/_/
<b>Entry delay 2</b> (Data x 1 sec.; Default: 060 sec.)	[3112]	__/_/	[3212]	__/_/	[3312]	__/_/	[3412]	__/_/	[3512]	__/_/	[3612]	__/_/	[3712]	__/_/	[3812]	__/_/
<b>Bell cut-off timer</b> (Data x 1 min.; Default: 4 min.)	[3113]	__/_/	[3213]	__/_/	[3313]	__/_/	[3413]	__/_/	[3513]	__/_/	[3613]	__/_/	[3713]	__/_/	[3813]	__/_/
<b>Auto zone shutdown</b> (000 to 015 alarms; default: disabled)	[3114]	__/_/	[3214]	__/_/	[3314]	__/_/	[3414]	__/_/	[3514]	__/_/	[3614]	__/_/	[3714]	__/_/	[3814]	__/_/
<b>Maximum number of zones that can be bypassed</b> (Data x 1 zone; Default: unlimited)	[3115]	__/_/	[3215]	__/_/	[3315]	__/_/	[3415]	__/_/	[3515]	__/_/	[3615]	__/_/	[3715]	__/_/	[3815]	__/_/
<b>Recycle delay</b> (Data x 1 min.; Default: disabled)	[3116]	__/_/	[3216]	__/_/	[3316]	__/_/	[3416]	__/_/	[3516]	__/_/	[3616]	__/_/	[3716]	__/_/	[3816]	__/_/
<b>Number of recycles</b> (Data x 1 attempt; Default: unlimited)	[3117]	__/_/	[3217]	__/_/	[3317]	__/_/	[3417]	__/_/	[3517]	__/_/	[3617]	__/_/	[3717]	__/_/	[3817]	__/_/
<b>Police code timer</b> (Data x 1 min.; Default: disabled)	[3118]	__/_/	[3218]	__/_/	[3318]	__/_/	[3418]	__/_/	[3518]	__/_/	[3618]	__/_/	[3718]	__/_/	[3818]	__/_/
<b>Closing delinquency timer</b> (Data x 1 day; Default: disabled)	[3119]	__/_/	[3219]	__/_/	[3319]	__/_/	[3419]	__/_/	[3519]	__/_/	[3619]	__/_/	[3719]	__/_/	[3819]	__/_/
<b>Postpone auto-arm delay</b> (Data x 15 min.; Default: 0)	[3120]	__/_/	[3220]	__/_/	[3320]	__/_/	[3420]	__/_/	[3520]	__/_/	[3620]	__/_/	[3720]	__/_/	[3820]	__/_/

## Partition Options 1

Table 33: Description of sections [3121] to [3821]

Section	Option	Description	OFF		ON	
Section [3121] Partition 1	1	Switch to Stay arm (if no delay zone is opened)	▲	Disabled	<input type="checkbox"/>	Enabled
	2	Arm/disarm with partition 2	▲	Disabled	<input type="checkbox"/>	Enabled
	3	Arm/disarm with partition 3	▲	Disabled	<input type="checkbox"/>	Enabled
	4	Arm/disarm with partition 4	▲	Disabled	<input type="checkbox"/>	Enabled
	5	Arm/disarm with partition 5	▲	Disabled	<input type="checkbox"/>	Enabled
	6	Arm/disarm with partition 6	▲	Disabled	<input type="checkbox"/>	Enabled
	7	Arm/disarm with partition 7	▲	Disabled	<input type="checkbox"/>	Enabled
	8	Arm/disarm with partition 8	▲	Disabled	<input type="checkbox"/>	Enabled
Section [3321] Partition 3	1	Arm/disarm with partition 1	▲	Disabled	<input type="checkbox"/>	Enabled
	2	Arm/disarm with partition 2	▲	Disabled	<input type="checkbox"/>	Enabled
	3	Switch to Stay arm (if no delay zone is opened)	▲	Disabled	<input type="checkbox"/>	Enabled
	4	Arm/disarm with partition 4	▲	Disabled	<input type="checkbox"/>	Enabled
	5	Arm/disarm with partition 5	▲	Disabled	<input type="checkbox"/>	Enabled
	6	Arm/disarm with partition 6	▲	Disabled	<input type="checkbox"/>	Enabled
	7	Arm/disarm with partition 7	▲	Disabled	<input type="checkbox"/>	Enabled
	8	Arm/disarm with partition 8	▲	Disabled	<input type="checkbox"/>	Enabled
Section [3521] Partition 5	1	Arm/disarm with partition 1	▲	Disabled	<input type="checkbox"/>	Enabled
	2	Arm/disarm with partition 2	▲	Disabled	<input type="checkbox"/>	Enabled
	3	Arm/disarm with partition 3	▲	Disabled	<input type="checkbox"/>	Enabled
	4	Arm/disarm with partition 4	▲	Disabled	<input type="checkbox"/>	Enabled
	5	Switch to Stay arm (if no delay zone is opened)	▲	Disabled	<input type="checkbox"/>	Enabled
	6	Arm/disarm with partition 6	▲	Disabled	<input type="checkbox"/>	Enabled
	7	Arm/disarm with partition 7	▲	Disabled	<input type="checkbox"/>	Enabled
	8	Arm/disarm with partition 8	▲	Disabled	<input type="checkbox"/>	Enabled
Section [3721] Partition 7	1	Arm/disarm with partition 1	▲	Disabled	<input type="checkbox"/>	Enabled
	2	Arm/disarm with partition 2	▲	Disabled	<input type="checkbox"/>	Enabled
	3	Arm/disarm with partition 3	▲	Disabled	<input type="checkbox"/>	Enabled
	4	Arm/disarm with partition 4	▲	Disabled	<input type="checkbox"/>	Enabled
	5	Arm/disarm with partition 5	▲	Disabled	<input type="checkbox"/>	Enabled
	6	Arm/disarm with partition 6	▲	Disabled	<input type="checkbox"/>	Enabled
	7	Switch to Stay arm (if no delay zone is opened)	▲	Disabled	<input type="checkbox"/>	Enabled
	8	Arm/disarm with partition 8	▲	Disabled	<input type="checkbox"/>	Enabled
Section [3221] Partition 2	1	Arm/disarm with partition 1	▲	Disabled	<input type="checkbox"/>	Enabled
	2	Switch to Stay arm (if no delay zone is opened)	▲	Disabled	<input type="checkbox"/>	Enabled
	3	Arm/disarm with partition 3	▲	Disabled	<input type="checkbox"/>	Enabled
	4	Arm/disarm with partition 4	▲	Disabled	<input type="checkbox"/>	Enabled
	5	Arm/disarm with partition 5	▲	Disabled	<input type="checkbox"/>	Enabled
	6	Arm/disarm with partition 6	▲	Disabled	<input type="checkbox"/>	Enabled
	7	Arm/disarm with partition 7	▲	Disabled	<input type="checkbox"/>	Enabled
	8	Arm/disarm with partition 8	▲	Disabled	<input type="checkbox"/>	Enabled
Section [3421] Partition 4	1	Arm/disarm with partition 1	▲	Disabled	<input type="checkbox"/>	Enabled
	2	Arm/disarm with partition 2	▲	Disabled	<input type="checkbox"/>	Enabled
	3	Arm/disarm with partition 3	▲	Disabled	<input type="checkbox"/>	Enabled
	4	Switch to Stay arm (if no delay zone is opened)	▲	Disabled	<input type="checkbox"/>	Enabled
	5	Arm/disarm with partition 5	▲	Disabled	<input type="checkbox"/>	Enabled
	6	Arm/disarm with partition 6	▲	Disabled	<input type="checkbox"/>	Enabled
	7	Arm/disarm with partition 7	▲	Disabled	<input type="checkbox"/>	Enabled
	8	Arm/disarm with partition 8	▲	Disabled	<input type="checkbox"/>	Enabled
Section [3621] Partition 6	1	Arm/disarm with partition 1	▲	Disabled	<input type="checkbox"/>	Enabled
	2	Arm/disarm with partition 2	▲	Disabled	<input type="checkbox"/>	Enabled
	3	Arm/disarm with partition 3	▲	Disabled	<input type="checkbox"/>	Enabled
	4	Arm/disarm with partition 4	▲	Disabled	<input type="checkbox"/>	Enabled
	5	Arm/disarm with partition 5	▲	Disabled	<input type="checkbox"/>	Enabled
	6	Switch to Stay arm (if no delay zone is opened)	▲	Disabled	<input type="checkbox"/>	Enabled
	7	Arm/disarm with partition 7	▲	Disabled	<input type="checkbox"/>	Enabled
	8	Arm/disarm with partition 8	▲	Disabled	<input type="checkbox"/>	Enabled
Section [3821] Partition 8	1	Arm/disarm with partition 1	▲	Disabled	<input type="checkbox"/>	Enabled
	2	Arm/disarm with partition 2	▲	Disabled	<input type="checkbox"/>	Enabled
	3	Arm/disarm with partition 3	▲	Disabled	<input type="checkbox"/>	Enabled
	4	Arm/disarm with partition 4	▲	Disabled	<input type="checkbox"/>	Enabled
	5	Arm/disarm with partition 5	▲	Disabled	<input type="checkbox"/>	Enabled
	6	Arm/disarm with partition 6	▲	Disabled	<input type="checkbox"/>	Enabled
	7	Arm/disarm with partition 7	▲	Disabled	<input type="checkbox"/>	Enabled
	8	Switch to Stay arm (if no delay zone is opened)	▲	Disabled	<input type="checkbox"/>	Enabled

▲ = Default

## Partition Arming/Disarming Options

Table 34: Description of partition arming/disarming options

Option	Description	Partition 1 [3122]		Partition 2 [3222]		Partition 3 [3322]		Partition 4 [3422]		Partition 5 [3522]		Partition 6 [3622]		Partition 7 [3722]		Partition 8 [3822]	
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON	ON	ON	ON	ON	ON
1	Timed auto-arming	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
2	No Movement auto-arming	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
3	Arming method for auto arm (OFF = Force arming; ON = Stay arming)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
4	Exit delay termination	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲
5	Future use	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Future use	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Future use	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Follow zone switches to Entry Delay 2, when delay zone is bypassed	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲

▲ = Default

## Partition Panic Alarm Options

Table 35: Description of partition panic alarm options

Option	Description	Partition 1 [3123]		Partition 2 [3223]		Partition 3 [3323]		Partition 4 [3423]		Partition 5 [3523]		Partition 6 [3623]		Partition 7 [3723]		Partition 8 [3823]	
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON	ON	ON	ON	ON	ON
1	Panic 1 (K641/641R: keys 1 & 3; K656: [□])	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
2	Panic 2 (K641/641R: keys 4 & 6; K656: [▲])	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
3	Panic 3 (K641/K641R: keys 7 & 9; K656: [▲])	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
4	Panic 1 alarm type (OFF = report only; ON = audible alarm)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
5	Panic 2 alarm type (OFF = report only; ON = audible alarm)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
6	Panic 3 alarm type (OFF = report only; ON = fire alarm)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
7	Always report disarming (OFF = always; ON = only after alarm)	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
8	Auto-force on regular arming	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□

▲ = Default

## Partition Bell Squawk Options

Table 36: Description of partition bell squawk options

Option	Description	Partition 1 [3124]		Partition 2 [3224]		Partition 3 [3324]		Partition 4 [3424]		Partition 5 [3524]		Partition 6 [3624]		Partition 7 [3724]		Partition 8 [3824]	
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON	ON	ON	ON	ON	ON
1	Bell squawk upon disarming	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
2	Bell squawk upon arming	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
3	Bell squawk upon auto-arming	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
4	Bell squawk during exit delay	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
5	Bell squawk during entry delay	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
6	Bell squawk upon remote arming/disarming	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲
7	Ring back: bell squawk if disarmed after alarm	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
8	Ring back: keypad beeps if disarmed after alarm	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲

▲ = Default



## Partition One-touch Options

Table 37: Description of partition one-touch options

Option	Description	Partition 1 [3125]		Partition 2 [3225]		Partition 3 [3325]		Partition 4 [3425]		Partition 5 [3525]		Partition 6 [3625]		Partition 7 [3725]		Partition 8 [3825]	
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON	ON	ON	ON	ON	ON
1	One-touch regular arming	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
2	One-touch Stay arming	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
3	One-touch Instant arming	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
4	One-touch Force arming	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
5	One-touch Stay or Instant disarming	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
6	One-touch bypass programming	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
7	One-touch event display	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
8	No exit delay when arming with remote control	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲

▲= Default

**WARNING: If a keypad is assigned to more than one partition, the one-touch feature must be enabled in all the keypad's assigned partitions. For instance, to enable the one-touch Regular Arming feature of a keypad assigned to partitions 1, 2, and 5, enable option 1 of sections [3125], [3225], and [3525].**

## Partition Special Options

Table 38: Description of partition special options

Option	Description	Partition 1 [3126]		Partition 2 [3226]		Partition 3 [3326]		Partition 4 [3426]		Partition 5 [3526]		Partition 6 [3626]		Partition 7 [3726]		Partition 8 [3826]	
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON	ON	ON	ON	ON	ON
1	Intellizone delay	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲
2	Intellizone double knockout and zone crossing	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲
3	Intellizone zone crossing	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲
4	Auto-force on Stay arming	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
5	Police code is generated on zone crossing only	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
6	Future use	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Future use	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Future use	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

▲= Default

## Partition Arming/Disarming Event Call Direction

Table 39: Description of partition arming/disarming event call direction

Option	Description	Partition 1 [3127]		Partition 2 [3227]		Partition 3 [3327]		Partition 4 [3427]		Partition 5 [3527]		Partition 6 [3627]		Partition 7 [3727]		Partition 8 [3827]	
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON	ON	ON	ON	ON	ON
1	Call telephone number 1/IP receiver 1	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲
2	Call telephone number 2/IP receiver 2	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
3	Call telephone number 3/IP receiver 3	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
4	Call telephone number 4/IP receiver 4	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
5	Backup on telephone number 1/IP receiver 1	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
6	Backup on telephone number 2/IP receiver 2	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
7	Backup on telephone number 3/IP receiver 3	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□
8	Backup on telephone number 4/IP receiver 4	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□	▲	□

▲= Default

**NOTE:** Enable only one option from options 5 to 8 (inclusive).

### Partition Alarm/Alarm Restore Event Call Direction

Table 40: Description of partition alarm/alarm restore event call direction

Option	Description	Partition 1 [3128]		Partition 2 [3228]		Partition 3 [3328]		Partition 4 [3428]		Partition 5 [3528]		Partition 6 [3628]		Partition 7 [3728]		Partition 8 [3828]	
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON	ON	ON	ON	ON	ON
1	Call telephone number 1/IP receiver 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Call telephone number 2/IP receiver 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Call telephone number 3/IP receiver 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Call telephone number 4/IP receiver 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Backup on telephone number 1/IP receiver 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Backup on telephone number 2/IP receiver 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Backup on telephone number 3/IP receiver 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Backup on telephone number 4/IP receiver 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

▲ = Default

**NOTE:** Enable only one option from options 5 to 8 (inclusive).

### Partition Tamper/Tamper Restore Event Call Direction

Table 41: Description of partition tamper/tamper restore event call direction

Option	Description	Partition 1 [3129]		Partition 2 [3229]		Partition 3 [3329]		Partition 4 [3429]		Partition 5 [3529]		Partition 6 [3629]		Partition 7 [3729]		Partition 8 [3829]	
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	ON	ON	ON	ON	ON	ON
1	Call telephone number 1/IP receiver 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Call telephone number 2/IP receiver 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Call telephone number 3/IP receiver 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Call telephone number 4/IP receiver 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Backup on telephone number 1/IP receiver 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Backup on telephone number 2/IP receiver 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Backup on telephone number 3/IP receiver 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Backup on telephone number 4/IP receiver 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

▲ = Default

**NOTE:** Enable only one option from options 5 to 8 (inclusive).

### Special Arming Exit Delay

#### Worksheet 44: Special Arming Exit Delay Settings

Description (Decimal Values from 000 to 255)	Partition 1		Partition 2		Partition 3		Partition 4		Partition 5		Partition 6		Partition 7		Partition 8	
	Section	Data	Section	Data	Section	Data	Section	Data	Section	Data	Section	Data	Section	Data	Section	Data
<b>Exit delay for special arming; auto arm, WinLoad/NEWare arming, etc.)</b> (Data x 1 sec.; default: 060)	[3130]	__/__/	[3230]	__/__/	[3330]	__/__/	[3430]	__/__/	[3530]	__/__/	[3630]	__/__/	[3730]	__/__/	[3830]	__/__/

## No Movement Schedule

### Worksheet 45: No Movement Schedule Settings

Section	Partition #	Interval	Start Time (From)	End Time (To)	Days of the Week (Turn ON or OFF)							
					S	M	T	W	T	F	S	H
[3131]	1	Schedule A	___ : ___	___ : ___	1	2	3	4	5	6	7	8
		Schedule B	___ : ___	___ : ___	1	2	3	4	5	6	7	8
[3231]	2	Schedule A	___ : ___	___ : ___	1	2	3	4	5	6	7	8
		Schedule B	___ : ___	___ : ___	1	2	3	4	5	6	7	8
[3331]	3	Schedule A	___ : ___	___ : ___	1	2	3	4	5	6	7	8
		Schedule B	___ : ___	___ : ___	1	2	3	4	5	6	7	8
[3431]	4	Schedule A	___ : ___	___ : ___	1	2	3	4	5	6	7	8
		Schedule B	___ : ___	___ : ___	1	2	3	4	5	6	7	8
[3531]	5	Schedule A	___ : ___	___ : ___	1	2	3	4	5	6	7	8
		Schedule B	___ : ___	___ : ___	1	2	3	4	5	6	7	8
[3631]	6	Schedule A	___ : ___	___ : ___	1	2	3	4	5	6	7	8
		Schedule B	___ : ___	___ : ___	1	2	3	4	5	6	7	8
[3731]	7	Schedule A	___ : ___	___ : ___	1	2	3	4	5	6	7	8
		Schedule B	___ : ___	___ : ___	1	2	3	4	5	6	7	8
[3831]	8	Schedule A	___ : ___	___ : ___	1	2	3	4	5	6	7	8
		Schedule B	___ : ___	___ : ___	1	2	3	4	5	6	7	8

**WARNING: The Start and End Time of a schedule cannot cross over into another day. For example, to program a shift from 10 PM to 6 AM the next morning, you must program the schedule as follows: Schedule A – start time: 22:00 and end time: 23:59; then program Schedule B – start time: 00:00 and end time: 06:00. The schedule will not be interrupted between 23:59 and 00:00.**

## Special and Trouble Report Codes

Use the following section to program the special and trouble report codes on your EVO system. Use worksheet 46, as well as worksheet 47 on page 52 to record your settings.

For Ademco Slow, Silent Knight Fast, Sescoc, Ademco Express, or pager formats, key-in desired two-digit hex value from 00 to FF.

### Ademco Format

- Use section [4034] (Special System Report Codes), [4035] (Special Arming/Disarming Report Codes), [4036] (Special Alarm Report Codes), and [4037] (Trouble/Trouble Restore Report Codes) to program a set of default Ademco report codes, using table 44 (Description of the automatic report codes), on page 53.
- To program the remaining report codes or change certain defaults, access the individual sections and key-in the desired two-digit hex value, found in table 48 (List of Ademco contact ID report codes), on page 58.

### SIA Format

- Use section [4034] (Special System Report Codes), [4035] (Special Arming/Disarming Report Codes), [4036] (Special Alarm Report Codes), and [4037] (Trouble/Trouble Restore Report Codes) to program a set of SIA report codes, using table 44 (Description of the automatic report codes), on page 53.
- Codes that have not been set to default can be set as such manually, by entering FF in the appropriate section.
- To disable the reporting of an event, enter 00 in the appropriate section.

## Special Report Codes

### Worksheet 46: Special Report Code Settings

Type	Section	Data	Description
Special System Report Codes	[3900]	___/___	Power up after total power down
	[3901]	___/___	Software reset (watchdog)
	[3902]	___/___	Test report
	[3903]	___/___	Listen-in to follow (request to start session)
	[3904]	___/___	WinLoad login request (callback only)
	[3905]	___/___	WinLoad log off
	[3906]	___/___	Installer in
	[3907]	___/___	Installer out
	[3908]	___/___	Future use
	[3909]	___/___	Future use
Special Arming Report Codes	[3910]	___/___	Auto-arming
	[3911]	___/___	PC arming
	[3912]	___/___	Late to close (Auto-arming)
	[3913]	___/___	No movement
	[3914]	___/___	Partial arming
	[3915]	___/___	Quick arming
	[3916]	___/___	Early to close (see worksheet 41 on page 45)
	[3917]	___/___	Late to close (see worksheet 41 on page 45)
	[3918]	___/___	Remote arming (ADM2, LSN4)
	[3919]	___/___	Close delinquency

Type	Section	Data	Description
Special Disarming Report Codes	[3920]	___/___	Cancel auto-arm
	[3921]	___/___	Quick disarm
	[3922]	___/___	PC disarming
	[3923]	___/___	PC disarming after alarm
	[3924]	___/___	Cancel alarm
	[3925]	___/___	Future use
	[3926]	___/___	Early to open (see worksheet 42 on page 46)
	[3927]	___/___	Late to open (see worksheet 42 on page 46)
	[3928]	___/___	Remote disarming (ADM2, LSN4)
	[3929]	___/___	Future use
Special Alarm Report Codes	[3930]	___/___	Emergency panic
	[3931]	___/___	Auxiliary panic
	[3932]	___/___	Fire panic
	[3933]	___/___	Recent closing
	[3934]	___/___	Police code
	[3935]	___/___	Zone shutdown
	[3936]	___/___	Duress
	[3937]	___/___	Keypad lockout
	[3938]	___/___	Voice lockout
	[3939]	___/___	Future use

## Trouble Report Codes

### Worksheet 47: Trouble Report Code Settings

Type	Section	Data	Description
Trouble Report Codes	[3940]	___/___	Future use
	[3941]	___/___	AC failure
	[3942]	___/___	Battery failure
	[3943]	___/___	Auxiliary supply
	[3944]	___/___	Bell output (disconnected or overload)
	[3945]	___/___	Clock loss
	[3946]	___/___	Fire loop trouble
	[3947]	___/___	Future use
	[3948]	___/___	Future use
	[3949]	___/___	Future use
	[3950]	___/___	Combus fault
	[3951]	___/___	Module tamper
	[3952]	___/___	ROM check error
	[3953]	___/___	Module TLM
	[3954]	___/___	Module failure to communicate
	[3955]	___/___	Printer fault
	[3956]	___/___	Module AC failure
	[3957]	___/___	Module battery failure
	[3958]	___/___	Module auxiliary failure
	[3959]	___/___	Future use
	[3960]	___/___	Wireless transmitter battery low
	[3961]	___/___	Wireless transmitter supervision trouble
	[3962]	___/___	Future use
	[3963]	___/___	Future use
	[3964]	___/___	Future use
	[3965]	___/___	Phone number 1 fail to communicate
	[3966]	___/___	Phone number 2 fail to communicate
	[3967]	___/___	Phone number 3 fail to communicate
	[3968]	___/___	Phone number 4 fail to communicate
	[3969]	___/___	Future use

Type	Section	Data	Description
Trouble Restore Report Codes	[3970]	___/___	TLM1 restore
	[3971]	___/___	AC failure restore
	[3972]	___/___	Battery failure restore
	[3973]	___/___	Auxiliary supply restore
	[3974]	___/___	Bell output (reconnected or restored)
	[3975]	___/___	Clock loss restore
	[3976]	___/___	Fire loop trouble restore
	[3977]	___/___	Future use
	[3978]	___/___	Future use
	[3979]	___/___	Future use
	[3980]	___/___	Combus fault restore
	[3981]	___/___	Module tamper restore
	[3982]	___/___	ROM check error restore
	[3983]	___/___	Module TLM restore
	[3984]	___/___	Module failure to communicate restore
	[3985]	___/___	Printer fault restore
	[3986]	___/___	Module AC failure restore
	[3987]	___/___	Module battery failure restore
	[3988]	___/___	Module auxiliary failure restore
	[3989]	___/___	Future use
	[3990]	___/___	Wireless transmitter battery low restore
[3991]	___/___	Wireless transmitter supervision trouble restore	

## Additional Settings and Modes

The following section provides information on various other settings and modes applicable to your EVO system.

Table 42: Description of sections [4000] to [4006]

Section	Name	Description
[4000]	Display serial number of control panel and all modules connected to the combus	After entering section [4000], the keypad will display the eight-digit serial number of the control panel and firmware version. For Keypads K641/K641R and K656: use the ▲ and ▼ keys to scroll through the serial number of each module connected to the combus. The firmware version of some modules will also be displayed. For Grafica Keypads: press the center action key (Next) to scroll through the serial number of each module on the combus.
[4001]	Module reset	Reset a module's programmed contents to its default settings, by entering its serial number.
[4002]	Locate/unlocate module	Locate a specific module (e.g., detector, zone expander, etc.) connected to the combus, by entering the module's serial number. The green <i>Locate</i> LED on the module will flash until the serial number is re-entered, or the appropriate <i>Tamper</i> or <i>Unlocate</i> switch is pressed on the module.
[4003]	Module programming mode	Enter the serial number of the module you wish to program.
[4004]	Module broadcast	Copy the contents of all programming sections from one module, to one or more modules of the same type. Enter the serial number of the source module, followed by the serial numbers of the modules you wish to program. To begin transferring data, press ACC on the K641/K641R keypads, 🔥 on the K656 keypad, or the center action key (Start) on Grafica keypads.
	Label broadcast	Copy user, door, and partition labels from the control panel, to all keypads and printer modules connected to the combus. To transmit the labels, enter 00 in section [4004]. From the <i>Destination</i> screen, press ACC on the K641/K641R keypads, 🔥 on the K656 keypad, or the center action key (Start) on Grafica keypads.
[4005]	Quick module scanning	After entering the section, the control panel will scan all addresses assigned to the modules. If any missing modules are detected (i.e., detector removed from the combus), the control panel will erase the module's serial number, thus removing the module from the control panel's memory.
[4006]	Module scanning	After entering the section, the control panel will scan all addresses on the combus. If any missing modules are detected (i.e., detector removed from the combus), the control panel will erase the module's serial number, thus removing the module from the control panel's memory. If new modules are detected, the serial number will be entered in the control panel's memory.

**WARNING: The module and label broadcast features will only work when a module is broadcasting its data to a module, or to modules of the same type and model number.**

## Paradox PMC5 Memory Key

Table 43: Description of the Paradox PMC5 memory key sections

Section	Description
[4010]	Download from the memory key to the control panel, except zone numbering and sections [0501] to [0532].
[4011]	Download from the memory key to the control panel, including zone numbering and sections [0501] to [0532].
[4012]	Download user labels from the memory key to the control panel.
[4013]	Download installer default (used when resetting from memory key to control panel).
[4020]	Copy the control panel sections to the memory key, except zone numbering and sections [0501] to [0532].
[4021]	Copy the control panel sections to the memory key, including zone numbering and sections [0501] to [0532].
[4022]	Copy the control panel user label to the memory key.
[4023]	Copy the control panel installer default to the memory key.

**WARNING: When using the PMC3 Memory Key, sections [4010], [4011], [4020] and [4021] will not include the labels. When using a PMC4 or PMC5, use sections [4012] and [4022] to transfer labels.**

Figure 3: The PMC5 Memory Key.



### Downloading Content from Memory Key to Control Panel

To download content from the memory key to the control panel, proceed as follows:

1. Connect the memory key (PMC5) to the connector labelled **MEM KEY** on the control panel.
2. To download the contents of the memory key, except zone numbering and sections [0501] to [0532], enter programming mode, and then access section [4010]. Depending on the memory key, the labels may or may not be included.
3. To download the contents of the memory key, including zone numbering and sections [0501] to [0532], enter programming mode, and then access section [4011]. Depending on the memory key, the labels may or may not be included.
4. After the keypad emits a confirmation beep, remove the memory key.

### Copy Content from Control Panel to Memory Key

To copy content from the control panel to the memory key, proceed as follows:

1. Connect the memory key (PMC5) to the connector labelled **MEM KEY** on the control panel. Ensure that the write-protect jumper on the memory key is ON.
2. To copy the contents to the memory key, except zone numbering and sections [0501] to [0532], enter programming mode, and then access section [4020]. Depending on the memory key, the labels may or may not be included.
3. To copy the contents to the memory key, including zone numbering and sections [0501] to [0532], enter section [4021]. Depending on the memory key, the labels may or may not be included.
4. After the keypad emits a confirmation beep, remove the memory key. Remove the memory key's jumper, so you do not accidentally overwrite its contents.

**WARNING: When using the PMC3 Memory Key, sections [4010], [4011], [4020] and [4021] will not include the labels. When using a PMC4 or PMC5, use sections [4012] and [4022] to transfer labels.**

## Automatic Report Code Programming

When using contact ID or SIA Reporting formats (see worksheet 25 on page 40), default report codes can be programmed automatically. After automatic defaults are set, they can be changed and the remaining report codes can be set manually.

Table 44: Description of the automatic report codes

Section	Report Code	Description
[4030]	All report codes reset to 00	Resets all codes from sections [0201] - [0296], [0701] - [0832], [2001] - [2199], and [3900] - [3999], to 00; sections [4031] to [4037] reset all the report codes in the following sections, to their default values which appear in table 47 ( <i>List of automatic report codes</i> ), on page 55
[4031]	All report codes reset to FF	[0201] to [0296], [0701] to [0832], [2001] to [2199], and [3900] to [3999]
[4032]	Zone alarm/alarm restore and zone tamper/tamper restore	[0201] to [0296]
[4033]	User/keyswitch arming and disarming	[0701] to [0832] and [2001] to [2199]
[4034]	Special report codes	[3900] to [3909]
[4035]	Special arming/disarming report codes	[3910] to [3929]
[4036]	Special alarm report codes	[3930] to [3939]
[4037]	Trouble and trouble restore report codes	[3940] to [3999]

## Software Reset

To set specific software parameters back to their initial, default values, proceed as follows:

1. Enter programming mode (see *Entering Programming Mode* on page 3 for details).
2. Enter section **[4049]** to unlock the software reset function.
3. Enter the four-digit section corresponding to the software reset you wish to perform.

If you want to reset more than one section, enter section **[4049]** to unlock the software reset function once again.

**Table 45: Description of software reset sections ([4040] to [4049])**






Section	Description
<b>[4040]</b>	Entering this section will reset all programmable sections, from <b>[0001]</b> to <b>[3999]</b> , to their factory default values.
<b>[4041]</b>	Entering this section will reset the system master code to 123456.
<b>[4042]</b>	Entering this section will reset all zone programming, including sections <b>[0961]</b> to <b>[0984]</b> , to their default values.
<b>[4043]</b>	Entering this section will reset all access control sections, from <b>[2201]</b> to <b>[2712]</b> (excluding door labels), to their default values.
<b>[4044]</b>	Entering this section will reset all user code sections, from <b>[1001]</b> to <b>[1999]</b> and <b>[2001]</b> to <b>[2199]</b> , to their default values.
<b>[4045]</b>	Entering this section will reset programming of all dialer sections ( <b>[3051]</b> to <b>[3081]</b> ), VDMP3 sections ( <b>[3087]</b> to <b>[3098]</b> ), and control panel sections ( <b>[3020]</b> to <b>[3043]</b> and <b>[3900]</b> to <b>[3991]</b> ), to their default values.
<b>[4046]</b>	Entering this section will reset all partition sections, from <b>[3101]</b> to <b>[3833]</b> (excluding partition labels), to their default values.
<b>[4047]</b>	Entering this section will reset programming of all PGM sections ( <b>[0901]</b> to <b>[0959]</b> ) and all keyswitch sections ( <b>[0501]</b> to <b>[0632]</b> ), as well as all keyswitch arming/disarming report code sections ( <b>[0701]</b> to <b>[0832]</b> ), to their default values.
<b>[4048]</b>	Entering this section will clear all user labels, door labels, partition labels, module labels, and zone labels, from sections <b>[0301]</b> to <b>[0396]</b> .
<b>[4049]</b>	Entering this section will unlock software reset for sections <b>[4040]</b> to <b>[4048]</b> .

## Installer Function Keys

To access the installer functions, press and hold **0**, enter the installer code, and then:

- For keypads K641/K641R and K656: press the key indicated in table 46, that corresponds to the function you wish to activate.
- For Grafica keypads: press the center action key (*Options*), highlight the desired function, and then press the center action key (*Ok*).

**Table 46: Description of installer functions for the K641/K641R and K656 keypads**

Function	Description	K641/K641R	K656
Test report	Sends the <i>Test Report</i> report code programmed in section <b>[3902]</b> , to the monitoring station.	<b>STAY</b>	<b>STAY</b>
Call WinLoad software	Will dial the PC telephone number programmed in section <b>[3010]</b> , to initiate communication with a computer using the WinLoad software.	<b>FORCE</b>	<b>SLEEP</b>
Answer WinLoad software	Will force the control panel to answer a call made by the monitoring station, which is using the WinLoad software.	<b>ARM</b>	<b>ARM</b>
Cancel communication	Cancels all communication with the WinLoad software or with the monitoring station, until the next reportable event.	<b>DISARM</b>	<b>OFF</b>
Installer test mode	This mode allows you to perform walk tests, where the bell or siren will squawk to indicate opened zones. To exit, press <b>MEM</b> (for K641/K641R) or  (for K656). Partitions cannot be armed if the installer test mode is enabled.	<b>MEM</b>	
Start module scan	The keypad will display the serial number of each module on the combus.	<b>TRBL</b>	
Combus voltmeter	To verify if the combus is supplying sufficient power, press and hold <b>0</b> , enter the installer code, and press either <b>ACC</b> or  , depending on the type of keypad. A reading of 12.3V or lower, at the panel's service keypad connector, indicates that the voltage is too low. The voltage may drop during the control panel battery test.	<b>ACC</b>	

## Automatic Report Codes

Table 47: List of automatic report codes

System Event	Default Contact ID Report Code (when using sections [4032] to [4037])		Default SIA Report Code (when using sections [4032] to [4037])	
Arming with master code (##)	3 4A1	Close by user	CL	Closing report
Arming with user code (##)	3 4A1	Close by user	CL	Closing report
Arming with keyswitch (##)	3 4A9	Keyswitch close	CS	Closing keyswitch
Auto arming	3 4A3	Automatic close	CA	Automatic closing
Arm with PC software	3 4A7	Remote arm/disarm	CQ	Remote arming
Late to close	3 452	Late to close	OT	Late to close
No movement	3 452	Late to close	NA	No movement arming
Partial arming	1 456	Partial arm	CG	Close area
Quick arming	3 4A8	Quick arm	CL	Closing report
Remote arm (voice)	3 4A7	Remote arm	CQ	Arm with voice module
Delinquency closing	1 654	System inactivity	CD	System inactivity
Disarm with master code (##)	1 4A1	Open by user	OP	Opening report
Disarm with user code (##)	1 4A1	Open by user	OP	Opening report
Disarm with keyswitch (##)	1 4A9	Keyswitch open	OS	Opening keyswitch
Disarm after alarm with master code (##)	1 4A1	Open by user	OP	Opening report
Disarm after alarm with user code (##)	1 4A1	Open by user	OP	Opening report
Disarm after alarm with keyswitch (##)	1 4A9	Keyswitch open	OS	Opening keyswitch
Cancel alarm with master code (##)	1 4A6	Cancel	OR	Disarm from alarm
Cancel alarm with user code (##)	1 4A6	Cancel	OR	Disarm from alarm
Cancel alarm with keyswitch (##)	1 4A6	Cancel	OS	Opening keyswitch
Auto arming cancellation	1 464	Auto-arm time extended	CE	Closing extend
Cancel alarm with PC software	1 4A6	Cancel	OR	Disarm from alarm
Voice disarm	1 4A7	Remote arm/disarm	OQ	Remote disarming
Disarm with PC software	1 4A7	Remote arm/disarm	OQ	Remote disarming
Disarm after an alarm with PC software	1 4A7	Remote arm/disarm	OQ	Remote disarming
Quick disarm	1 4A8	Quick disarm	OP	Opening report
Zone Bypassed (##)	1 57A	Zone bypass	UB	Untyped zone bypass
Zone alarm (##)	1 13A	Burglary alarm	BA	Burglary alarm
Fire alarm (##)	1 11A	Fire alarm	FA	Fire alarm
Early to Disarm by User	1 451	Early to open	OK	Early to open
Late to Disarm by User	1 452	Late to open	OJ	Late to open
Zone alarm restore (##)	3 13A	Burglary alarm restore	BH	Burglary alarm restore
Fire alarm restore (##)	3 11A	Fire alarm restore	FH	Fire alarm restore
24-hr Gas alarm (##)	1 13A	Burglary alarm	GA	Gas alarm
24-hr Heat alarm (##)	1 13A	Burglary alarm	KA	Heat alarm
24-hr Water alarm (##)	1 13A	Burglary alarm	WA	Water alarm
24-hr Freeze alarm (##)	1 13A	Burglary alarm	ZA	Freeze alarm
24-hr Gas alarm restore (##)	3 13A	Burglary alarm restore	GR	Gas alarm restore
24-hr Heat alarm restore (##)	3 13A	Burglary alarm restore	KR	Heat alarm restore
24-hr Water alarm restore (##)	3 13A	Burglary alarm restore	WR	Water alarm restore
24-hr Freeze alarm restore (##)	3 13A	Burglary alarm restore	ZR	Freeze alarm restore
Panic 1: emergency	1 12A	Panic alarm	PA	Panic alarm
Panic 2: medical	1 1AA	Medical alarm	MA	Medical alarm
Panic 3: fire	1 115	Pull station	FA	Fire alarm
Recent closing	3 459	Recent close	CR	Recent closing
Police code	1 139	Burglary alarm	BM	Burglary alarm
Global zone shutdown	1 574	Group bypass	CG	Close area
Duress alarm	1 121	Duress	HA	Hold-up alarm

Table 47: List of automatic report codes (Continued)

System Event	Default Contact ID Report Code (when using sections [4032] to [4037])		Default SIA Report Code (when using sections [4032] to [4037])	
Zone shutdown (##)	1 57A	Zone bypass	UB	Untyped zone bypass
Zone tampered (##)	1 144	Sensor tamper	TA	Tamper alarm
Zone tamper restore (##)	3 144	Sensor tamper restore	TR	Tamper restoral
Keypad lockout	1 421	Access denied	JA	User code tamper
AC failure	1 3A1	AC loss	AT	AC trouble
Battery failure	1 3A9	Battery test failure	YT	System battery trouble
Auxiliary supply trouble	1 3AA	System trouble	YP	Power supply trouble
Bell output current limit	1 321	Bell 1	YA	Bell fault
Bell absent	1 321	Bell 1	YA	Bell fault
Clock lost	1 626	Time/date inaccurate	JT	Time changed
Fire loop trouble	1 373	Fire trouble	FT	Fire trouble
TLM trouble restore	3 351	Telco 1 fault restore	LR	Phone line restoral
AC failure restore	3 3A1	AC loss restore	AR	AC restoral
Battery failure restore	3 3A9	Battery test restore	YR	System battery restoral
Auxiliary supply trouble restore	3 3AA	System trouble restore	YQ	Power supply restored
Bell output current limit restore	3 321	Bell 1 restore	YH	Bell restored
Bell absent restore	3 321	Bell 1 restore	YH	Bell restored
Clock programmed	3 625	Time/date reset	JT	Time changed
Fire loop trouble restore	3 373	Fire trouble restore	FJ	Fire trouble restore
Combus fault	1 333	Expansion module failure	ET	Expansion trouble
Module tamper	1 145	Expansion module tamper	TA	Tamper alarm
Module ROM_RAM_error	1 3A4	ROM checksum bad	YF	Parameter checksum fail
Module TLM trouble	1 352	Telco 2 fault	LT	Phone line trouble
Module fail to communicate to monitoring station	1 354	Fail to communicate	YC	Communication fails
Printer fault	1 336	Local printer failure	VT	Printer trouble
Module AC failure	1 3A1	AC loss	AT	AC trouble
Module battery failure	1 3A9	Battery test failure	YT	System battery trouble
Module auxiliary supply trouble	1 3AA	System trouble	YP	Power supply trouble
Combus fault restore	3 333	Expansion module failure restore	ER	Expansion restoral
Module tamper restore	3 145	Expansion module tamper restore	TR	Tamper restoral
Module ROM_RAM_error restore	3 3A4	ROM checksum bad restore	YG	Parameter changed
Module TLM restore	3 352	Telco 2 fault restore	LR	Phone line restoral
Early to arm by user	3 451	Early to close	CK	Early to close
Late to arm by user	3 452	Late to close	CJ	Late to close
Zone excluded on Force arming	1 57A	Zone bypass	XW	Zone forced
Zone went back to arm status	3 57A	Zone bypass restore	UU	Zone included
Printer fault restore	3 336	Local printer failure restore	VR	Printer restore
Module AC restore	3 3A1	AC loss restore	AR	AC restoral
Module battery restore	3 3A9	Battery test failure restore	YR	System battery restoral
Module auxiliary supply restore	3 3AA	System trouble restore	YQ	Power supply restored
Fail to communicate with monitoring station	1 354	Fail to communicate	YC	Communication fails
Module RF low battery	1 384	RF transmitter low battery	XT	Transmitter battery trouble
Module RF supervision trouble	1 381	Loss of supervision - RF	US	Untype zone supervision
Module RF battery restore	3 384	RF transmitter battery restore	XR	Transmitter battery restoral
Module RF supervision restore	3 381	Supervision restore - RF	UR	Untyped zone restoral
Cold start	1 3A8	System shutdown	RR	Power up
Warm start	1 3A5	System reset	YW	Watchdog reset
Test report engaged	1 6A2	Periodic test report	TX	Test report
Listen-in request	1 606	Listen-in to follow	LF	Listen-in to follow



Table 47: List of automatic report codes (Continued)

System Event	Default Contact ID Report Code (when using sections [4032] to [4037])		Default SIA Report Code (when using sections [4032] to [4037])	
	Code	Description	Code	Description
WinLoad login request	1 411	Call back Request	RB	Remote program begin
PC software communication finished	1 412	Successful - download access	RS	Remote program success
Installer on site	1 627	Program mode entry	LB	Local program
Installer programming finished	1 628	Program mode exit	LS	Local program success
Module fail to communicate restore	3 354	Fail to communicate restore	YK	Communication restore
Missing PCS module	1 552	Radio transmitter disabled	YS	Communication trouble
GSM RF jam	1 552	Radio transmitter disabled	YS	Communication trouble
GSM no service	1 552	Radio transmitter disabled	YS	Communication trouble
GPRS FTC IPR512	1 354	Fail to communicate	YA	Communication fails
Missing IP module	1 552	Radio transmitter disabled	YS	Communication trouble
IP no service	1 552	Radio transmitter disabled	YS	Communication trouble
IP100 FTC IPR512	1 354	Fail to communicate	YA	Communication fails
Missing PCS module restore	3 552	Radio transmitter restore	YK	Communication restore
GSM RF jam restore	3 552	Radio transmitter restore	YK	Communication restore
GPRS FTC IPR512 restore	3 354	Fail to communicate restore	YK	Communication restore
Missing IP module restore	3 552	Radio transmitter restore	YK	Communication restore
IP no service restore	3 552	Radio transmitter restore	YK	Communication restore
IP100 FTC IPR512 restore	3 354	Fail to communicate restore	YK	Communication restore

## Contact ID Report Codes

If using the Ademco contact ID format, enter the two-digit hexadecimal value (under the column heading *Value* in table 48) to program the desired report codes into sections [0201] to [0296], [0701] to [0832], [2001] to [2199], and [3900] to [3999].

Table 48: List of Ademco contact ID report codes

Type	CID #	Reporting Code	Value
Medical Alarms (100)	100	Medical alarm	01
	101	Personal emergency	02
	102	Fail to report in	03
Fire Alarms (110)	110	Fire Alarm	04
	111	Smoke	05
	112	Combustion	06
	113	Water Flow	07
	114	Heat	08
	115	Pull Station	09
	116	Duct	0A
	117	Flame	0B
Panic Alarms (120)	118	Near Alarm	0C
	120	Panic alarm	0D
	121	Duress	0E
	122	Silent	0F
	123	Audible	10
	124	Duress - access granted	11
Burglar Alarms (130)	125	Duress - egress granted	12
	130	Burglary	13
	131	Perimeter	14
	132	Interior	15
	133	24-hour	16
	134	Entry/exit	17
	135	Day/night	18
	136	Outdoor	19
	137	Tamper	1A
	General Alarms (140)	138	Near alarm
139		Intrusion verifier	1C
140		General alarm	1D
141		Polling loop open	1E
142		Polling loop short	1F
143		Extension module failure	20
144		Sensor tamper	21
145		Expansion module tamper	22
24-hour Non-burglary (150 & 160)	146	Silent burglary	23
	147	Sensor supervision failure	24
	150	24-hour non-burglary	25
	151	Gas detected	26
	152	Refrigeration	27
	153	Loss of heat	28
	154	Water leakage	29
	155	Foil break	2A
	156	Day trouble	2B
	157	Low bottled gas level	2C
158	High temperature	2D	

Table 48: List of Ademco contact ID report codes

Type	CID #	Reporting Code	Value
24-hour Non-burglary (150 & 160) (cont.)	159	Low temperature	2E
	161	Loss of air flow	2F
	162	Carbon monoxide detected	30
	163	Tank level	31
Fire Supervisory (200 & 210)	200	Fire supervisory	32
	201	Low water pressure	33
	202	Low CO2	34
	203	Gate valve sensor	35
	204	Low water level	36
	205	Pump activated	37
	206	Pump failure	38
System Troubles (300 & 310)	300	System trouble	39
	301	AC loss	3A
	302	Low system battery	3B
	303	RAM checksum bad	3C
	304	ROM checksum bad	3D
	305	System reset	3E
	306	Panel program changed	3F
	307	Self-test failure	40
	308	System shutdown	41
	309	Battery test failure	42
	310	Ground fault	43
	311	Battery missing/dead	44
	312	Power supply over current	45
Sounder/Relay Troubles (320)	313	Engineer reset	46
	320	Sounder relay	47
	321	Bell 1	48
	322	Bell 2	49
	323	Alarm relay	4A
	324	Trouble relay	4B
	325	Reversing relay	4C
	326	Notification appliance chk. #3	4D
	327	Notification appliance chk. #4	4E

Table 48: List of Ademco contact ID report codes

Type	CID #	Reporting Code	Value	
System Peripheral Troubles (330 & 340)	330	System peripheral	4F	
	331	Polling loop open	50	
	332	Polling loop short	51	
	333	Expansion module failure	52	
	334	Repeater failure	53	
	335	Local printer paper out	54	
	336	Local printer failure	55	
	337	Exp. module DC low	56	
	338	Exp. module low batt	57	
	339	Exp. module reset	58	
	341	Exp. module tamper	59	
	342	Exp. module AC lost	5A	
	343	Exp. module self-test fail	5B	
	344	RF receiver jam detected	5C	
	Communication Troubles (350 & 360)	350	Communication	5D
		351	Telco fault 1	5E
		352	Telco fault 2	5F
353		Long range radio	60	
354		Fail to communicate	61	
355		Loss of radio supervision	62	
356		Loss of central polling	63	
357		Long range radio VSWR problem	64	
Protection Loop Troubles (370)		370	Protection loop	65
		371	Protection loop open	66
	372	Protection loop short	67	
	373	Fire trouble	68	
	374	Exit error alarm	69	
	375	Panic zone trouble	6A	
	376	Hold-up zone trouble	6B	
	377	Swinger trouble	6C	
	378	Cross-zone trouble	6D	
	Sensor Troubles (380)	380	Sensor trouble	6E
381		Loss of supervision - RF	6F	
382		Loss of supervision - RPM	70	
383		Sensor tamper	71	
384		RF transmitter low battery	72	
385		Smoke detector hi sensitivity	73	
386		Smoke detector low sensitivity	74	
387		Intrusion detector hi sensitivity	75	
388		Intrusion detector low sensitivity	76	
389		Sensor self-test failure	77	
391		Sensor watch trouble	78	
392		Drift compensation error	79	
393		Maintenance alert	7A	

Table 48: List of Ademco contact ID report codes

Type	CID #	Reporting Code	Value
Open/Close (400)	400	Open/close	7B
	401	Open/close by user	7C
	402	Group open/close	7D
	403	Automatic open/close	7E
	406	Cancel	7F
	407	Remote arm/disarm	80
	408	Quick arm	81
	409	Keyswitch open/close	82
	Remote Access (410)	411	Callback request made
412		Successful - download access	84
413		Unsuccessful access	85
414		System shutdown	86
415		Dialer shutdown	87
416		Successful upload	88
Access Control (420)	421	Access denied	89
	422	Access report by user	8A
	423	Forced access	8B
	424	Egress denied	8C
	425	Egress granted	8D
	426	Access door propped open	8E
	427	Access point door status monitor trouble	8F
	428	Access point request to exit	90
	429	Access program mode entry	91
	430	Access program mode exit	92
	431	Access threat level change	93
	432	Access relay/trigger fail	94
	433	Access RTE shunt	95
	434	Access DSM shunt	96
	441	Armed stay	97
	442	Keyswitch armed stay	98
Special Troubles (450 & 460)	450	Exception open/close	99
	451	Early open/close	9A
	452	Late open/close	9B
	453	Failed to open	9C
	454	Failed to close	9D
	455	Auto-arm failed	9E
	456	Partial arm	9F
	457	User exit error	A0
	458	User on premises	A1
	459	Recent close	A2
	461	Wrong code entry	A3
	462	Legal code entry	A4
	463	Re-arm after alarm	A5
	464	Auto-arm time extended	A6
465	Panic alarm reset	A7	
466	Service ON/OFF premises	A8	

Table 48: List of Ademco contact ID report codes

Type	CID #	Reporting Code	Value
Sounder Relay Disables (520)	520	Sounder/relay disabled	A9
	521	Bell 1 disable	AA
	522	Bell 2 disable	AB
	523	Alarm relay disable	AC
	524	Trouble relay disable	AD
	525	Reversing relay disable	AE
	526	Notification appliance chk. #3 disabled	AF
	527	Notification appliance chk. #4 disabled	B0
	531	Module added	B1
	532	Module removed	B2
Communication Disabled (550 & 560)	551	Dialer disabled	B3
	552	Radio transmitter disabled	B4
Bypasses (570)	570	Zone bypass	B5
	571	Fire bypass	B6
	572	24-hour zone bypass	B7
	573	Burglary bypass	B8
	574	Group bypass	B9
	575	Swinger bypass	BA
	576	Access zone shunt	BB
577	Access point bypass	BC	

Table 48: List of Ademco contact ID report codes

Type	CID #	Reporting Code	Value
Test/Misc (600)	601	Manual trigger test	BD
	602	Periodic test report	BE
	603	Periodic RF transmission	BF
	604	Fire test	C0
	605	Status report to follow	C1
	606	Listen-in to follow	C2
	607	Walk test mode	C3
	608	Periodic test - system trouble present	C4
	609	Video xmitter active	C5
	611	Point test Ok	C6
	612	Point not tested	C7
	613	Intrusion zone walk tested	C8
	614	Fire zone walk tested	C9
	615	Panic zone walk tested	CA
	616	Service request	CB
	621	Event log reset	CC
	622	Event log 50% full	CD
	623	Event log 90% full	CE
	624	Event log overflow	CF
	625	Time/date reset	D0
	626	Time/date inaccurate	D1
	627	Program mode entry	D2
	628	Program mode exit	D3
	629	32-hour event log marker	D4
	630	Schedule change	D5
	631	Exception schedule change	D6
	632	Access schedule change	D7
	654	System inactivity	D8

## Keypad Programming

Use the following section to program keypads on your EVO system. Use worksheets 48 to 50 to record your settings.

### K641/K641R and K656

The keypad's serial number can be found on the keypad's PC board. It can also be viewed by pressing and holding **0**, entering the installer code, and then accessing section **[0000]**. The keypad's firmware version is also displayed in this section.

Figure 4: The K641/K641R and K656 keypads.



Table 49: Description of sections [001] to [006] for the K641/K641R and K656 keypads

Section	Option	Description	OFF	ON
Section [001] Keypad Partition Assignment	1	Partition 1	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
	2	Partition 2	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
	3	Partition 3	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
	4	Partition 4	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
	5	Partition 5	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
	6	Partition 6	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
	7	Partition 7	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
	8	Partition 8	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
Section [003] General Options 1	1	Display code entry	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	2	Display exit delay	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	3	Display entry delay	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	4	Confidential mode (not for UL installations)	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	5	Exit confidential mode	<input checked="" type="checkbox"/> Enter code	<input type="checkbox"/> Press button
	6	Future use	<input type="checkbox"/> -	<input type="checkbox"/> -
	7	Future use	<input type="checkbox"/> -	<input type="checkbox"/> -
	8	Time display option	<input checked="" type="checkbox"/> yy/mm/dd	<input type="checkbox"/> dd/mm/yy
Section [005] Beep on Trouble	1	System and clock trouble beep	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	2	Communicator trouble beep	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	3	Module and combus trouble beep	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	4	All zone trouble beep	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	5	Future use	<input type="checkbox"/> -	<input type="checkbox"/> -
	6	Future use	<input type="checkbox"/> -	<input type="checkbox"/> -
	7	Time format	<input checked="" type="checkbox"/> 24 hr. clock	<input type="checkbox"/> 12 hr. clock
	8	Audible feedback on access request	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
Section [006] General Options 3 (K641R only)	1	Card activates door unlocked schedule	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
	2	Door left open alarm	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	3	Door forced open alarm	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	4	Future use	<input type="checkbox"/> -	<input type="checkbox"/> -
	5	Keypad tamper	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	6	Re-lock door	<input checked="" type="checkbox"/> After opening	<input type="checkbox"/> After closing
	7	Future use	<input type="checkbox"/> -	<input type="checkbox"/> -
	8	Unlock on REX	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled

Section	Option	Description	OFF	ON
Section [002] Assigning Doors to Partitions	1	Door assigned to partition 1	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
	2	Door assigned to partition 2	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	3	Door assigned to partition 3	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	4	Door assigned to partition 4	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	5	Door assigned to partition 5	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	6	Door assigned to partition 6	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	7	Door assigned to partition 7	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	8	Door assigned to partition 8	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
Section [004] General Options 2	1	Mute keypad	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	2	Exit delay beep	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
	3	Door left open pre-arm*	<input type="checkbox"/> Disabled	<input checked="" type="checkbox"/> Enabled
	4	Chime on zone closure	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	5	Door left open alarm feedback*	<input type="checkbox"/> Silent	<input checked="" type="checkbox"/> Audible
	6	Door left open alarm follows*	<input checked="" type="checkbox"/> Alarm restore	<input type="checkbox"/> Beep timer
	7	Door forced alarm*	<input type="checkbox"/> Silent	<input checked="" type="checkbox"/> Audible
	8	Door forced alarm*	<input checked="" type="checkbox"/> Alarm restore	<input type="checkbox"/> Beep timer
Section [006] PGM and Tamper Options	1	PGM state**	<input checked="" type="checkbox"/> N.O.	<input type="checkbox"/> N.C.
	2	PGM deactivation mode**	<input checked="" type="checkbox"/> Deactivation on event	<input type="checkbox"/> PGM timer
	3	PGM base time	<input checked="" type="checkbox"/> 1 sec.	<input type="checkbox"/> 1 min.
	4	PGM Override**	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	5	Keypad tamper	<input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled
	6	Future use	<input type="checkbox"/> -	<input type="checkbox"/> -
	7	Future use	<input type="checkbox"/> -	<input type="checkbox"/> -
	8	Future use	<input type="checkbox"/> -	<input type="checkbox"/> -

▲ = Default

\* Section/option is only available on K641R.

\*\* Section/option is only available on K641 and K656.

**Worksheet 48: Keypad Settings for Sections [007] to [013]**

Section	Data	Description	Default Setting
[007]	___/___/___ (005-255 sec.)	Confidential mode timer	120
[008]	___/___/___ (000-255; see option 3 in section [006])	PGM timer	005
[008]	___/___/___ (000-255 sec.)	Door unlocked period*	005
[009]	___/___/___ (005-255 sec. added to section [008])	Door unlocked period extension*	015
[010]	___/___/___ (000-255 sec.)	Door left open interval*	060
[011]	___/___/___ (000-255 sec.)	Door left open pre-alarm timer*	015
[012]	___/___/___ (000-255 sec.)	Beep timer for door left open alarm*	005
[013]	___/___/___ (000-255 sec.)	Beep timer for door forced open alarm*	005

\* Section/option is only available on K641R.

**Worksheet 49: Door Unlocked Schedule (K641R only)**

Section	Interval	Start Time (From)	End Time (To)	Days of the Week (Turn ON or OFF)							
				S	M	T	W	T	F	S	H
[017]	Schedule A	___ : ___	___ : ___	1	2	3	4	5	6	7	8
	Schedule B	___ : ___	___ : ___	1	2	3	4	5	6	7	8

**Table 50: Description of sections [3080] to [3081]**

Section	Option	Description	OFF		ON	
Section [018] Beeping Assignment	1	Partition 1	<input type="checkbox"/>	Mute	▲	Audible
	2	Partition 2	<input type="checkbox"/>	Mute	▲	Audible
	3	Partition 3	<input type="checkbox"/>	Mute	▲	Audible
	4	Partition 4	<input type="checkbox"/>	Mute	▲	Audible
	5	Partition 5	<input type="checkbox"/>	Mute	▲	Audible
	6	Partition 6	<input type="checkbox"/>	Mute	▲	Audible
	7	Partition 7	<input type="checkbox"/>	Mute	▲	Audible
	8	Partition 8	<input type="checkbox"/>	Mute	▲	Audible

△= Default

**Worksheet 50: PGM Activation and Deactivation**

Description	Event Group		Feature Group		Start #		End #	
	Section	Data	Section	Data	Section	Data	Section	Data
PGM activation	[009]	___/___/___	[010]	___/___/___	[011]	___/___/___	[012]	___/___/___
PGM deactivation	[013]	___/___/___	[014]	___/___/___	[015]	___/___/___	[016]	___/___/___

**WARNING: All event groups, except groups 064 to 067, can be used to program the module's PGM. See Programmable Outputs on page 19, for details.**

**Label Programming**

Each section, from [101] to [148], [200] to [204], and [301] to [396], contains one label with a maximum of 16 characters. These sections contain the following labels:

- Sections [101] to [148]: zone 01 to zone 48, respectively
- Section [200] = Paradox security
- Sections [201] to [204]: first area, second area, third area, and fourth area
- Sections [301] to [396]: code 01 to code 96, respectively

After entering the section corresponding to the desired label, the label can be re-programmed to suit your installation needs (see table 51). For example, section [101] (Zone 01) can be changed to *Front Door*.

**Table 51: Description of the special function keys, used for programming labels on the K641/K641R and K656 keypads**

Function	Description	K641/K641R	K656
Insert space	Insert a blank space at the current cursor's position.	STAY	STAY
Delete	Delete the character or blank space found at the cursor's current position.	FORCE	SLEEP
Delete until end of entry	Delete all characters and spaces to the right of the cursor, as well as at the cursor's current position.	ARM	ARM
Numeric/alphanumeric	Toggle from numeric to alphanumeric keys, and vice versa. Numeric: keys 0 to 9 represent numbers 0 to 9; alphanumeric: refer to table 52.	DISARM	OFF
Lower/upper case	Toggle from lower to upper case, and vice versa.	BYP	MENU
Special characters	After pressing this key, the cursor will turn into a flashing black square. Using the special characters outlined in figure 5, enter the three-digit number for the desired character.	MEM	☐

Figure 5: Special characters for label programming.

032	048	064	080	096	112	128	144	160	176	192	208
0	@	P	´	p	Ù	Ê	á	ä	ø	•	
033	049	065	081	097	113	129	145	161	177	193	209
!	1	A	Q	a	q	Û	È	î	±	Ł	¨
034	050	066	082	098	114	130	146	162	178	194	210
"	2	B	R	b	r	Ü	É	ï	ij	Đ	°
035	051	067	083	099	115	131	147	163	179	195	211
#	3	C	S	c	s	Û	Ê	í	↑	β	˘
036	052	068	084	100	116	132	148	164	180	196	212
\$	4	D	T	d	t	Û	è	ï	↓	ç	˙
037	053	069	085	101	117	133	149	165	181	197	213
%	5	E	U	e	u	ù	è	ì	↵	®	~
038	054	070	086	102	118	134	150	166	182	198	214
&	6	F	V	f	v	ú	é	ñ	f	□	÷
039	055	071	087	103	119	135	151	167	183	199	215
'	7	G	W	g	w	ô	ë	ñ	£	⌘	«
040	056	072	088	104	120	136	152	168	184	200	216
(	8	H	X	h	x	ó	â	ñ	→	μ	»
041	057	073	089	105	121	137	153	169	185	201	217
)	9	I	Y	i	y	ó	ä	ö	↵	ø	!t
042	058	074	090	106	122	138	154	170	186	202	218
*	:	J	Z	j	z	ô	á	g	↑	ÿ	\\
043	059	075	091	107	123	139	155	171	187	203	219
+	;	K	[	k	{	õ	â	v	↓	Ä	x
044	060	076	092	108	124	140	156	172	188	204	220
,	<	L	¥	l		ò	à	v	↑	¢	⊕
045	061	077	093	109	125	141	157	173	189	205	221
-	=	M	]	m	}	ó	á	w	½	ã	⊙
046	062	078	094	110	126	142	158	174	190	206	222
.	>	N	^	n	→	õ	ä	Ω	¼	Ö	⊞
047	063	079	095	111	127	143	159	175	191	207	223
/	?	O	_	o	←	ö	Å	Æ	¼	õ	≡

Table 52: Description of alphanumeric key inputs

Key	Press Key Once	Press Key Twice	Press Key Three Times
1	A	B	C
2	D	E	F
3	G	H	I
4	J	K	L
5	M	N	O
6	P	Q	R
7	S	T	U
8	V	W	X
9	Y	Z	

### Using the Memory Key

Table 53: Description of memory key sections ([510] to [520])

Section	Description
[510]	Download all content from the memory key (keypad sections [001] to [396], as well all labels and messages) to the keypad.
[520]	Copy the keypad sections [001] to [396], as well as labels and messages to the memory key.

### Downloading Content from Memory Key to Keypad

To download content from the memory key to the keypad (refer to figure 6), proceed as follows:

1. Connect the memory key to the connector labelled **KEY** on the keypad.
2. Enter the keypad's programming mode, and then access section [510].
3. Wait for two separate confirmation beeps, and then remove the memory key.

Figure 6: Downloading from memory key to keypad and vice-versa.



### Copying Content from Keypad to the Memory Key

To copy content from the memory key to the keypad (refer to figure 6), proceed as follows:

1. Connect memory key to the connector labelled **KEY** on the keypad. Ensure that the write-protect jumper is ON (refer to figure 7).
2. Enter the keypad's programming mode, and then access section [520].
3. Wait for two separate confirmation beeps, and then remove the memory key. Remove the memory key's jumper, so you do not accidentally overwrite its contents.

Figure 7: The PMCS Memory Key.



## Combus Voltmeter

To verify if the combus is supplying sufficient power, press and hold **0**, enter the installer code, and press **Acc** on the K641/K641R keypads, or **▲** on the K656 keypad. A reading of 10.5V or lower, indicates to a distant module that the voltage is too low. The voltage may drop during the control panel battery test.

## Updating Firmware Using WinLoad

To update your system firmware:

1. Connect the product to your PC, using a 307USB Direct Connect Interface or CV4USB Converter.

**NOTE:** If you are using the 307USB to upgrade a keypad that features a four-pin serial connector, you must first disconnect the GRN and YEL combus wires.

2. Launch WinLoad.
3. Click the In-Field Programmer icon.
4. Verify the product information located in the In-Field Firmware Programmer window.
5. If the firmware programmer automatically detects your control panel, proceed to the next step. If it does not automatically detect your control panel, click **Com Port Settings** and select the correct *Com* port. Once the correct port has been selected, click the **Refresh Product Info** button to connect with the panel.
6. To check for new firmware updates, click **Download Firmware from the Web**.
7. From the **Select Firmware** drop-down menu, select the firmware version you wish to install. If you have already downloaded the PUF file from [paradox.com](http://paradox.com), click [...], and then select your PUF file from the appropriate location.
8. Click **Update Product Firmware**. When the download process comes to an end, the update is complete.

## Hardware Connections for the Control Panel

The following section provides information on certain hardware connections for your EVO 48/EVO192 control panel. For detailed information, including connection diagrams, refer to the EVO48/EVO192 Installation Guide. The installation guide is available from [paradox.com](http://paradox.com).

### Milliamp Consumption

#### Worksheet 51: Milliamp Consumption of Various Devices

	<i>Device</i>	<i>QTY</i>	<i>Consumption for Each</i>	<i>Total (mA)</i>
	PCS Communicator Module	_____	x 600 mA	_____
	Grafica graphic LCD keypads (K07)	_____	x 130 mA	_____
	LCD keypads (K641, K656)	_____	x 110 mA	_____
	LCD keypads with built-in reader (K641R)	_____	x 120 mA	_____
	LED keypads (K648)	_____	x 110 mA	_____
	Motion detector modules (DG85, DM50/60/70)	_____	x 30 mA	_____
	Door contact modules (ZC1)	_____	x 15 mA	_____
	1-Zone expansion modules (ZX1)	_____	x 30 mA	_____
	4-Zone expansion modules (ZX4)	_____	x 30 mA	_____
	8-Zone expansion modules (ZX8)	_____	x 30 mA	_____
	Magellan wireless expansion modules (RTX3)	_____	x 35 mA	_____
	4-PGM expansion modules (PGM4)	_____	x 150 mA	_____
	Printer modules (PRT3)	_____	x 25 mA	_____
	DVACS modules (DVAC)	_____	x 40 mA	_____
	Annunciator modules (ANC1)	_____	x 20 mA	_____
	InTouch voice-assisted arm/disarm modules (ADM2)	_____	x 105 mA	_____
	Hub and bus isolator (HUB2)	_____	x 50 mA	_____
	Access control module (ACM12) (The ACM12 consumes 130mA from its own power supply and cannot be powered by the combus; the ACM11 consumes 120mA when connected to the combus for power)	_____	x 120 mA	_____
	Listen-in module (LSN4)	_____	x 60 mA	_____
	Internet module (IP100)	_____	x 110 mA	_____
	Plug-in voice module (VDMP3)	_____	x 35 mA	_____
	PCS module	_____	x 600 mA	_____
	Other devices such as hardwired motion detectors	_____		_____
	<b>Grand Total</b> (The maximum available milliamps is 700 mA)			_____

Using worksheet 51 on page 63, proceed as follows:

1. Calculate the total number of milliamps (mA) required by each device, module, and accessory in your EVO system. Make sure to take into account devices connected to the control panel's PGM outputs. Since the bell output has its own power supply, do not include the sirens which are connected to it in your calculation.
2. If the grand total is less than 700 mA, proceed to step 3. If the value is greater, an external power supply will be required to provide the additional power needed.
3. Due to the degradation of a power signal over long distances (if such is the case, the PS17 Paradox Power Supply Module is recommended), each length (or run) of wire in the system can support only a specific number of milliamps (mA). Using table 54, determine how many milliamps each run of wire can support.

**NOTE:** The total number of milliamps (mA) can never surpass 700 mA.

**Table 54: Milliamp reference table for different wire gauges**

Wire Gauge	Length (of each run of wire)	Available Milliamps (mA)	Wire Gauge	Length (of each run of wire)	Available Milliamps (mA)	Wire Gauge	Length (of each run of wire)	Available Milliamps (mA)
18 AWG (Surface: 0.823 sq. mm)	30 m (100 ft.)	700	22 AWG (Surface: 0.326 sq. mm)	30 m (100 ft.)	700	24 AWG (Surface: 0.205 sq. mm)	30m (100 ft.)	700
	61 m (200 ft.)	700		61 m (200 ft.)	682		61m (200 ft.)	429
	91 m (300 ft.)	700		91 m (300 ft.)	454		91m (300 ft.)	286
	122 m (400 ft.)	700		122 m (400 ft.)	341		122m (400 ft.)	214
	152 m (500 ft.)	690		152 m (500 ft.)	273		152m (500 ft.)	171
	183 m (600 ft.)	575		183 m (600 ft.)	227		183m (600 ft.)	143
	213 m (700 ft.)	493		213 m (700 ft.)	195			
	244 m (800 ft.)	431		244 m (800 ft.)	170			
	274 m (900 ft.)	383		274 m (900 ft.)	151			
	305 m (1000 ft.)	345		305 m (1000 ft.)	136			
	457 m (1500 ft.)	230						
	610 m (2000 ft.)	172						
	762 m (2500 ft.)	138						
	914 m (3000 ft.)	115						

### Connecting the Combustion in Noisy Environments

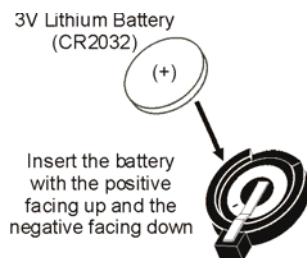
When installing the combustion wires in proximity to high electrical interference, such as neon lights, motors, high-voltage wiring, and transformers, or if connecting the combustion across separate buildings, you must use shielded cables. Connect the shielded cable as follows:

- **Within the same building:** strip the outer jacket at one end of the shielded cable to expose the shield. Connect the shield to the control panel ground (not the dialer ground), while leaving the shield at the other end of the cable open (floating).
- **Across separate buildings:** strip the outer jacket at one end of the shielded cable to expose the shield. In the same building that houses the control panel, connect the exposed shield to a cold water pipe or any other earth ground available, while leaving the shield at the other end of the cable open (floating). The same configuration applies to any subsequent building.

### Built-in RTC

Digiplex EVO panels incorporate an RTC directly on the PC board. The RTC will save the control panel's internal clock when both the AC and battery power have been lost. After power is lost and then restored, the control panel will verify with the RTC and retrieve the time. The control panel will then verify and compare its time with the time stored in the RTC, every hour. If the times differ, the control panel will reset its internal clock to the time saved in the RTC. The RTC uses a 3V lithium battery (CR2032) with a battery life of 11 years. Install the battery as shown in figure 8.

**Figure 8: Changing the RTC's lithium battery.**



**WARNING: When replacing the RTC's battery, beware of the following, possible hazards:**

- If the lithium battery is installed incorrectly, there is the chance that it may explode. Replace only with the same or an equivalent type, recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.
- Do not connect a DGP2-TM1 Time Module to the MEM KEY connector. Connecting a DGP2-TM1 will create time errors within the panel, and features that use the control panel's internal clock (e.g., auto-arming) will not function properly. In addition, re-program the control panel's clock after replacing the 3V lithium battery.



## Trouble Display

The following section provides information on the different trouble groups associated with your EVO 48/EVO192 control panel.

### K641/K641R and K648

To view the trouble display on the K641/K641R and K648 keypads:

1. Press **TRBL**.
2. To view the specific trouble:
  - a. For K648, press the numerical symbol corresponding to the *Group* heading.
  - b. For K641/K641R, press the trouble's corresponding number key and use the ▲ and ▼ keys.

### K656

To view the trouble display on the K656 keypad:

1. Press **MENU**.
2. Press **5** or scroll to the **View Trouble** sub-menu using the ▲ and ▼ keys, and then press **ENTER**.
3. Press the trouble's corresponding number key and use the ▲ and ▼ keys to view the specific trouble.

### Grafica

To view the trouble display on Grafica keypads:

1. Enter your access code.
2. Using the scroll keys, highlight *Trouble* and then press the center action key (*Ok*). The troubles will appear by trouble group. If more than one trouble group appears, highlight the desired group before pressing the center action key (*View*), to view the specific trouble.

### Trouble Groups

Table 55: Trouble groups for the EVO system

Group	#	Description	Group	#	Description	Group	#	Description	Group	#	Description
1: System	1	AC failure	2: Communicator	1	TLM1	3: Module Trouble	1	Module tamper	4: Network (Combus) Troubles	1	Missing keypad
	2	Battery trouble		2	Fail to Com. 1		2	Module ROM check error		2	Missing module
	3	Aux. current limit		3	Fail to Com. 2		3	Module TLM trouble		3	Missing voice module
	4	Bell current limit		4	Fail to Com. 3		4	Module Fail to Com.		6	General failure
	5	Bell absent		5	Fail to Com. 4		5	Printer trouble		7	Combus overload
	6	ROM check error		6	Fail to Com. PC		6	Module AC failure			
	7	RAM check error			7		Module battery failure				
				8	Module supply output						
5: Zone Tamper		Press <b>5</b> to display the tampered zone or zones	6: Zone Low Battery		Press <b>6</b> to display the zone(s) assigned to wireless devices with low batteries	7: Zone Fault		Press <b>7</b> to display the zone(s) experiencing a communication, a fire loop, or CleanMe™ trouble.	8: Clock Loss		Press <b>8</b> to re-program the time
9: GSM Troubles	1	Missing GSM module	9: GSM Troubles (cont.)	6	Fail to communicate with IP receiver 2	10: IP Troubles	1	Missing IP module	10: IP Troubles (cont.)	5	Fail to communicate with IP receiver 3
	3	GSM RF jam supervision		7	Fail to communicate with IP receiver 3		2	No service		6	Fail to communicate with IP receiver 4
	4	No service		8	Fail to communicate with IP receiver 4		3	Fail to communicate with IP receiver 1		7	IP receiver unregistered
	5	Fail to communicate with IP receiver 1		9	IP receiver unregistered		4	Fail to communicate with IP receiver 2			





The whole Paradox team wishes you a successful and easy installation. We hope this product performs to your complete satisfaction. Should you have any questions or comments, please contact us.

For support, please contact your local distributor, or dial 1-800-791-1919 (in North America) or +1-450-491-7444 (outside North America), Monday to Friday, from 8:00 a.m. to 8:00 p.m. EST.

You may also e-mail us at [support@paradox.com](mailto:support@paradox.com).  
Additional information can be found at [PARADOX.COM](http://PARADOX.COM)

**P**  **R**  **D O X**<sup>®</sup>  
**S E C U R I T Y S Y S T E M S**

Printed in Canada - 09/2010    [PARADOX.COM](http://PARADOX.COM)    EVO-EP05