RXN-416 LED Keypad

Installer Programming Guide

For the Hunter-Pro Series

PIMA FOR BETTER PROTECTION

PIMA Electronic Systems Ltd.
www.pima-alarms.com

P/N: 4410289, A1, ZA en
March 2009

INDEX

Contact Us:

PIMA Electronic Systems Ltd.

5 Hatzoref Street, Holon 58856, Israel

Tel: +972.3.6506414 Fax: +972.3.5500442

Email: support@pima-alarms.com

Web: http://www.pima-alarms.com

Partner's website:
http://www.pima-alarms.com/site/modules/login.asp

1. INTRODUCTION

This guide contains the necessary information for programming PIMA's Hunter-Pro series alarm systems, using the RXN-416 LED keypad.

Programming the system using a LED keypad is based on entering a parameter address first, and then its desired value. A table at the end of this guide lists all the addresses and their values.

For the purpose of LED programming, there are 2 types of data:

1) Numbers, e.g., entry delay time, telephone numbers, etc.: the digits are represented by Hex base numbers
2) Discrete (or toggle), e.g., zone characteristics, partitions, etc.: these 2 state parameters represent '+' or '-'.

Both types are displayed by the keypad LEDs, where an illuminating LED stands for '1' or '+' ('enabled' in discrete data) and a turned off LED stands for '0' or '-' ('disabled' in discrete data).

In discrete programming mode, the pound key (#) is used for toggling the parameters value between '+' and '-', i.e., enabled and disabled.

The digits imprinted next to the LEDs do not play any role when using the keypad for programming and should therefor be ignored

2. PROGRAMMING

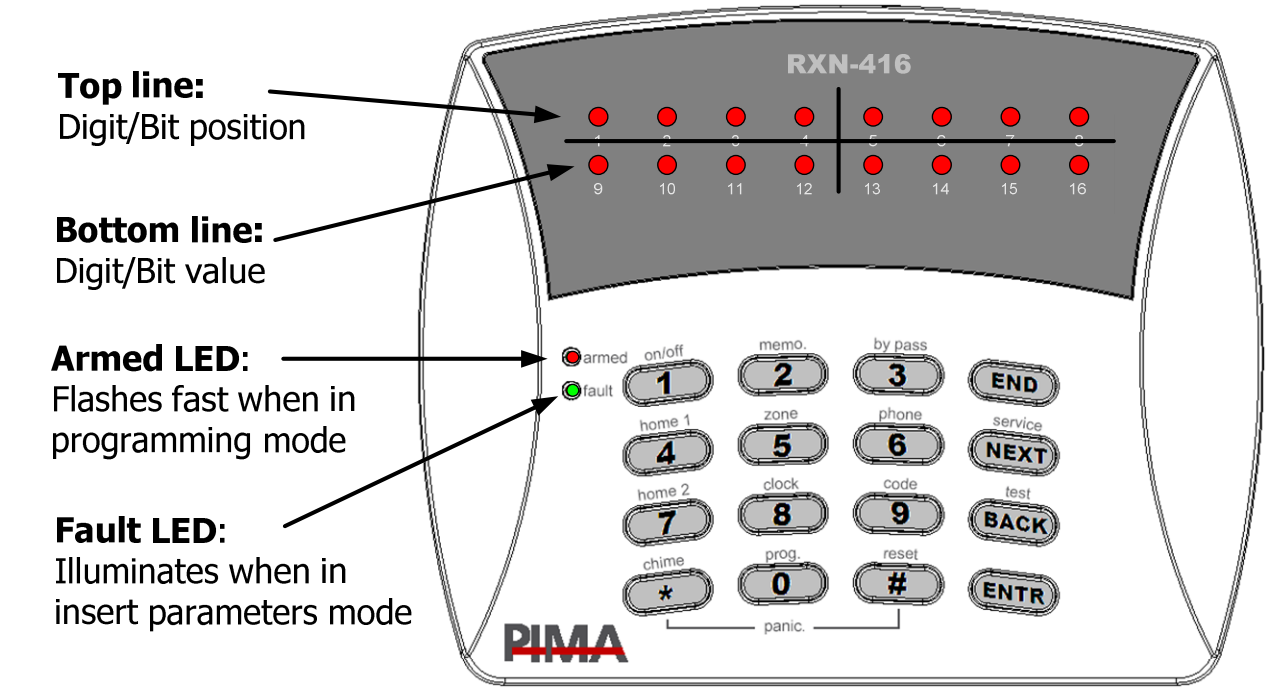


Figure 1. The keypad LEDs

To enter programming mode, enter the installer code. Each and every parameter has a unique address. To program a parameter, its address should first be set, and then its value.

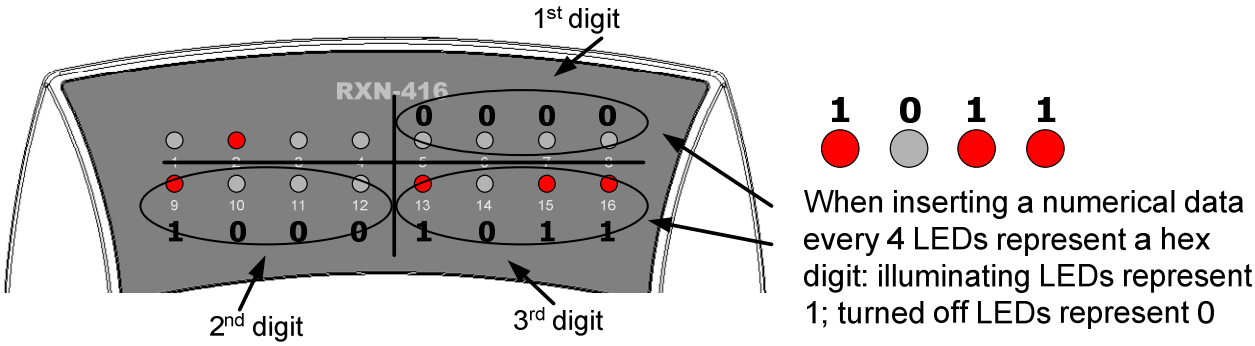


Figure 2. Setting an address

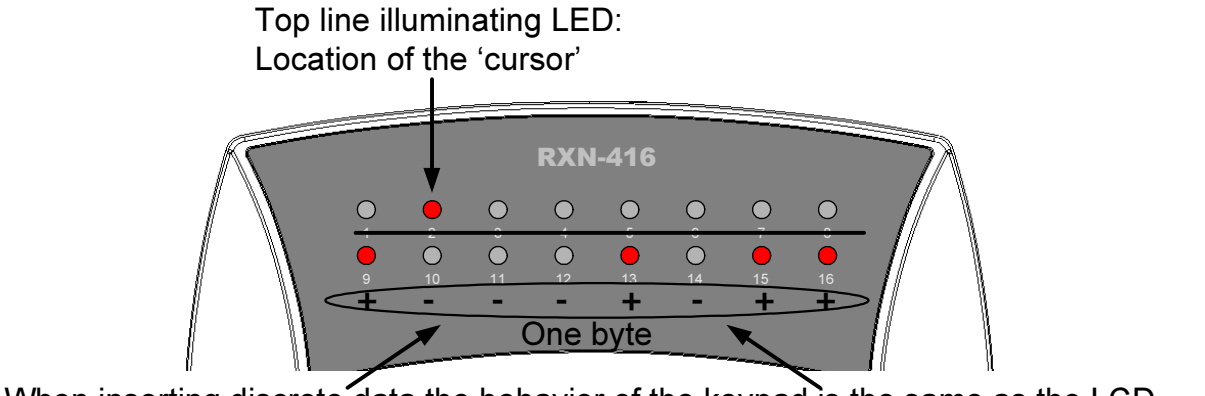


Figure 3. Reading discrete data

The LED keypad programming flow resembles the LCD keypad flow to some extent.

2.1 The LEDs

1. When the system is in programming mode the Red Armed LED indicates by flashing fast. The Green fault LED indicates whether the parameter's address is being set or its value:

Green LED	**Red LED**	**Mode**
Flashes fast	Off	Programming: inserting an address
Flashes fast	Flashes slowly	Programming: Inserting a value (parameter)

2. When the system is in address setting mode, the address value is determined by the combination of the illuminating LEDs in both the 2 lines.
3. When the system is in parameter setting mode, the upper illuminating LEDs mark the position (as a digit or bit) of the 'cursor' (as in the LCD keypad), and the bottom line mark the value of this parameter (as a digit or bit).
4. All numbers, e.g. telephone numbers, timings, etc., are displayed in hexadecimal (base-16) system. A conversion table is in the next sub-section.

5. The hex values A-F are set by pressing the asterisk key '∗'. Each key press advances the value:

Value	A	B	C	D	E	F
*** Key presses**	1	2	3	4	5	6

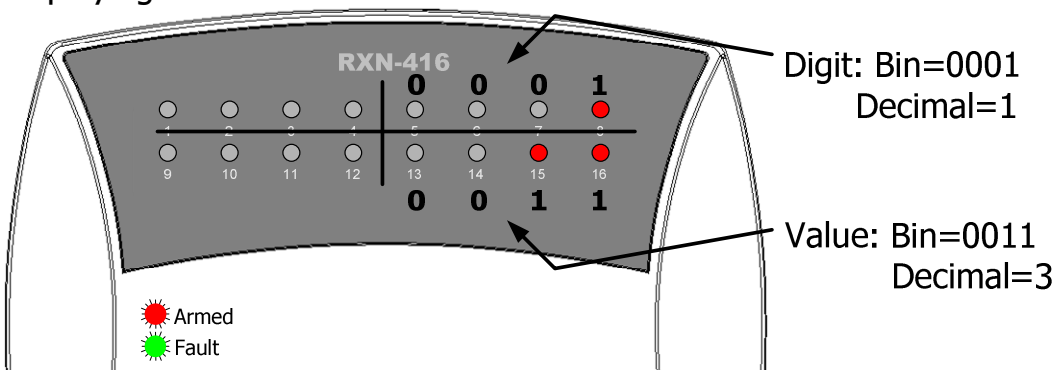
2.2 Hex to Binary conversion table

HEX	BIN		HEX	BIN		HEX	BIN		HEX	BIN
0	0000		4	0100		8	1000		C	1100
1	0001		5	0101		9	1001		D	1101
2	0010		6	0110		A	1010		E	1110
3	0011		7	0111		B	1011		F	1111

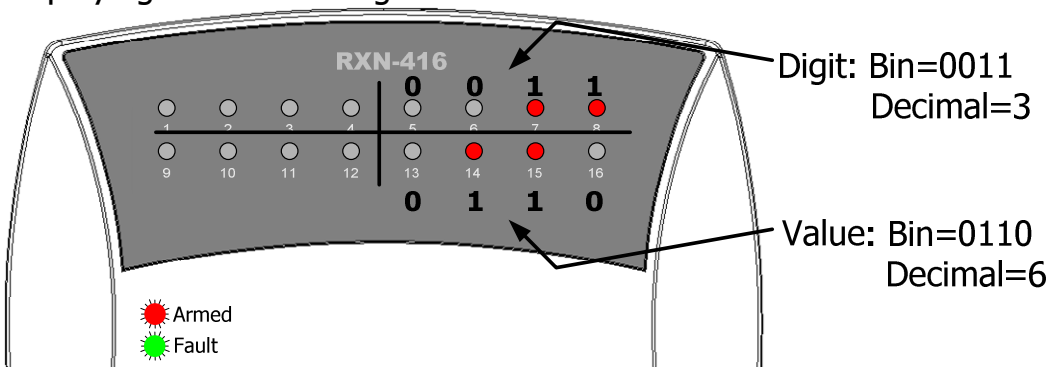
3. PROGRAMMING EXAMPLES

3.1 Displaying a number

1. Displaying a number that starts with 3:



2. Displaying 6 as the 3rd digit of a number:



Account numbers are made of 4 digits, therefor, any account number that has less than 4 digits must be preceded with zeros. For example: account number 25 will be programmed as 0025.

3.2 Setting a discrete parameter's values

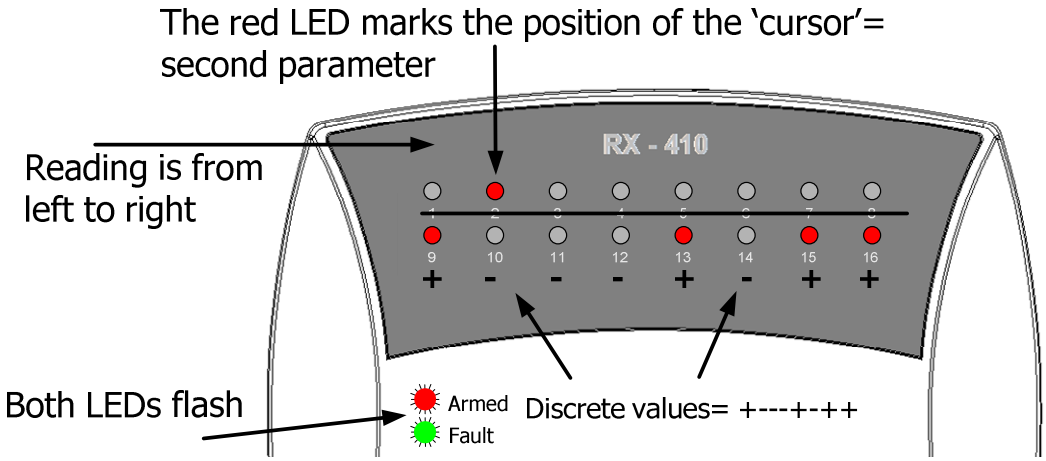
The next example demonstrates how setting a set of discrete parameters (e.g. CMS #1 communication parameters) is performed: the LEDs that illuminate in the upper line mark where the 'cursor' is; the LEDs in the bottom line mark the value, which can be one of two, in a way that resembles to the LCD keypad display: illuminating LEDs represent '+' or 'Enabled'; turned off LEDs represent '-' or 'Disabled'.

The full description of each and every parameter is detailed in the Hunter-Pro series installation guide.

All the parameters with their addresses are listed in chapter 3

When programming discrete parameters, reading the upper line is from left to right and so, in the next screen, the red illuminating LED, i.e. the 'cursor', is on the second parameter. Advance the 'cursor' with NEXT & BACK buttons.

In the figure below, the values demonstrated are +---+-++ where '+' is enabled and '-' is disabled.

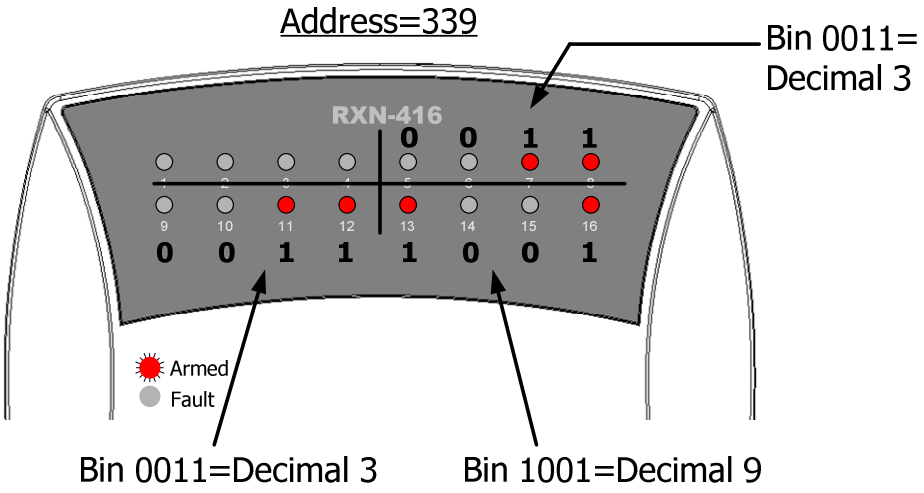


3.3 Example: setting 'Mains fault delay time'

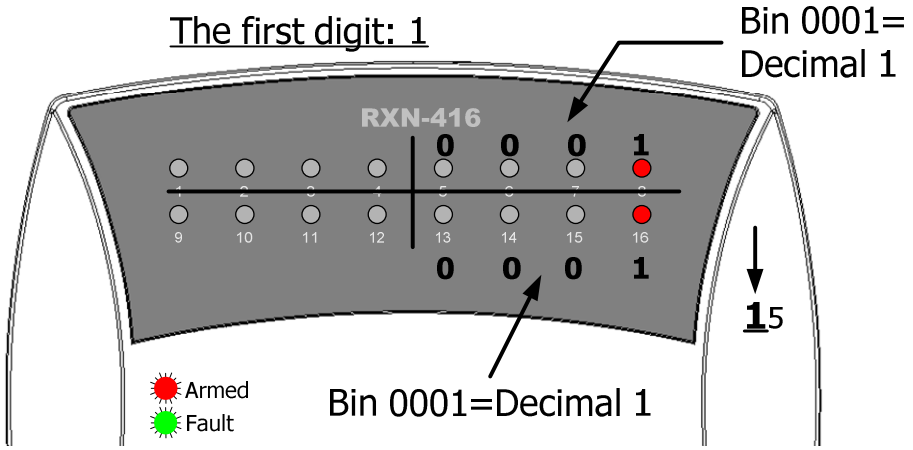
To begin with, look in the parameters addresses table in chapter 4. 'Mains fault delay time' timer has the address of 339. Assume we want to set its value (i.e. time) to 35 minutes (the default value is 15). The programming flow goes like this:

1. Enter the installer code. No LED should flash but the red Armed one, to indicate that the keypad is now in programming mode.

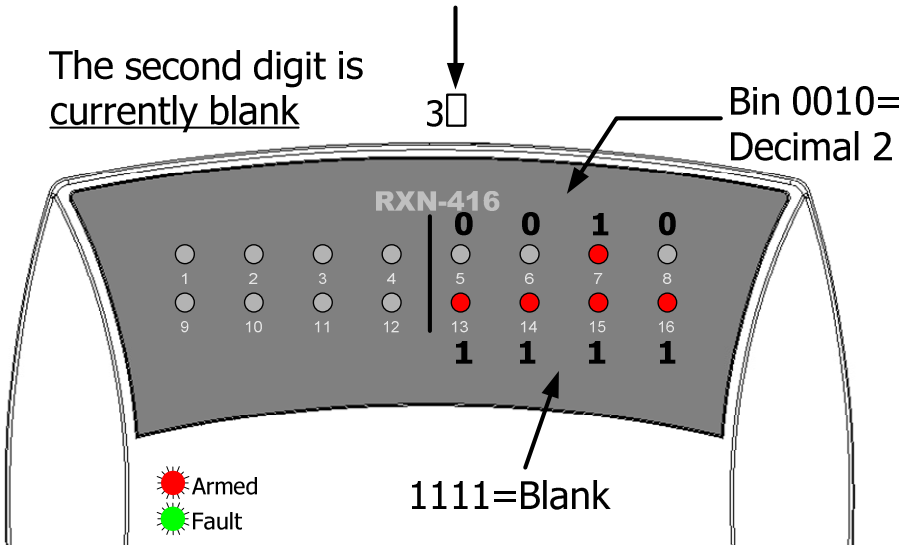
2. Press 339 for the address. The LEDs will illuminate as demonstrated in the figure:



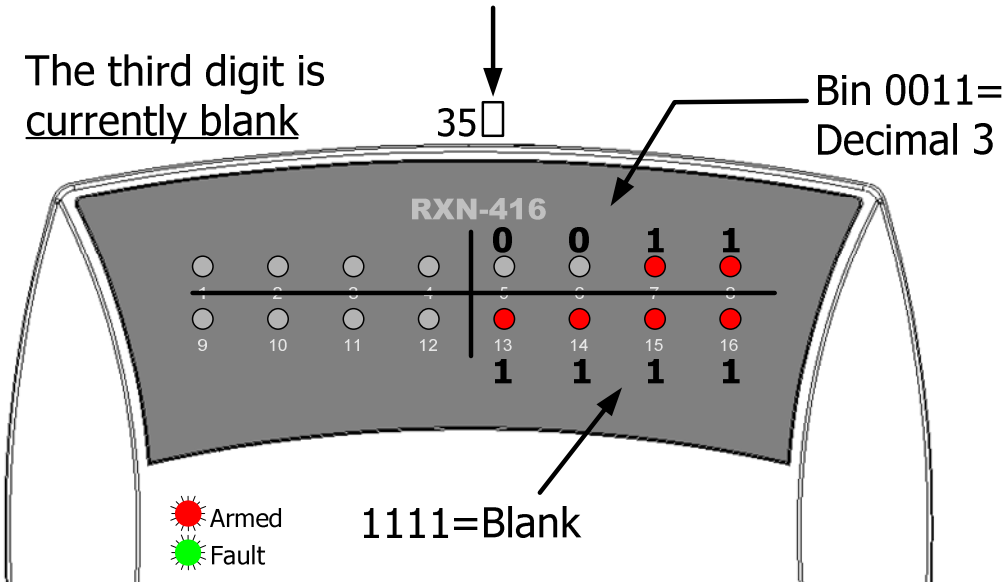
3. Press ENTR. The first digit of the current parameter's value (1) is displayed: the hex digit of the upper line is 0001 which is decimal '1'; therefor, the 'cursor' is on the first digit of the number (value). The bottom line displays 2 as the value (digit).



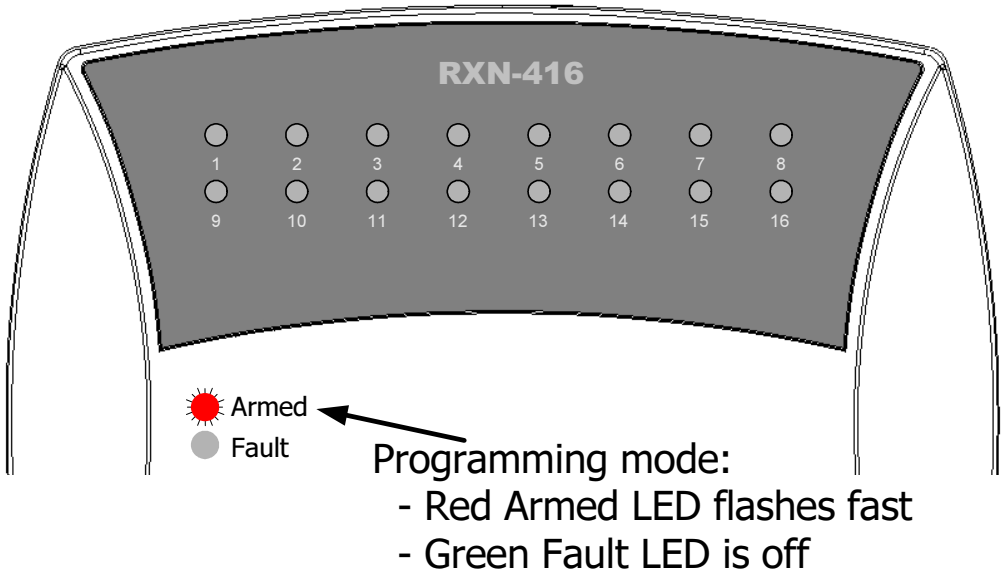
4. Press 3, the first digit of the new value (35). Just like in the LCD keypad, when entering the first digit of a number value, the stored number is erased and the 'cursor' automatically advances to the second space, which is now blank.



5. Press 5, the second digit of required value of 35. Again, the 'cursor' advances to the next digit which is blank at the moment. Differently from the LCD keypad, the data fields in the LED keypad are fully displayed, even if only part of the field is in use. In this example the requested value is a two digit number (35) but the 'Entry delay time' field contains 3 digits and so, the 3rd digit (which is blank) is displayed too.

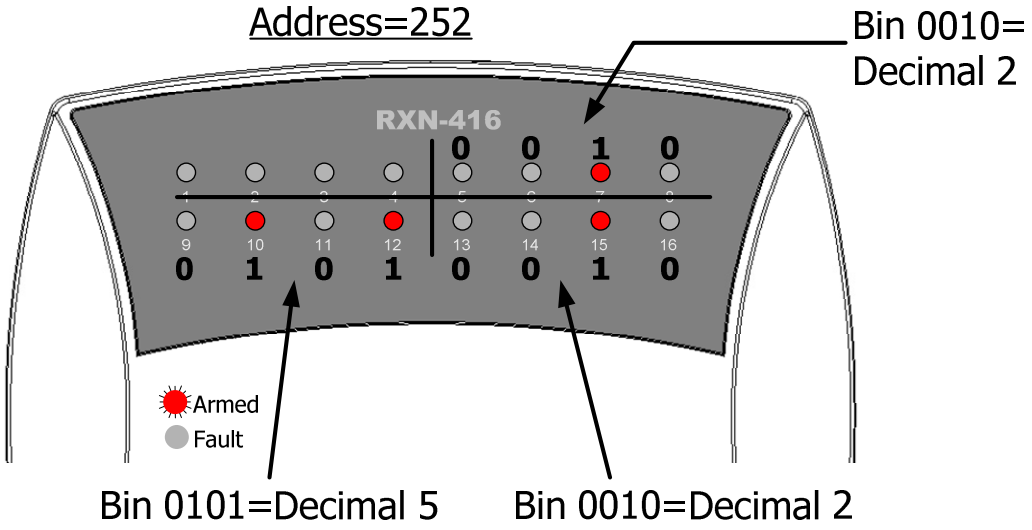


6. Press ENTR to save the new value and return to address programming mode.

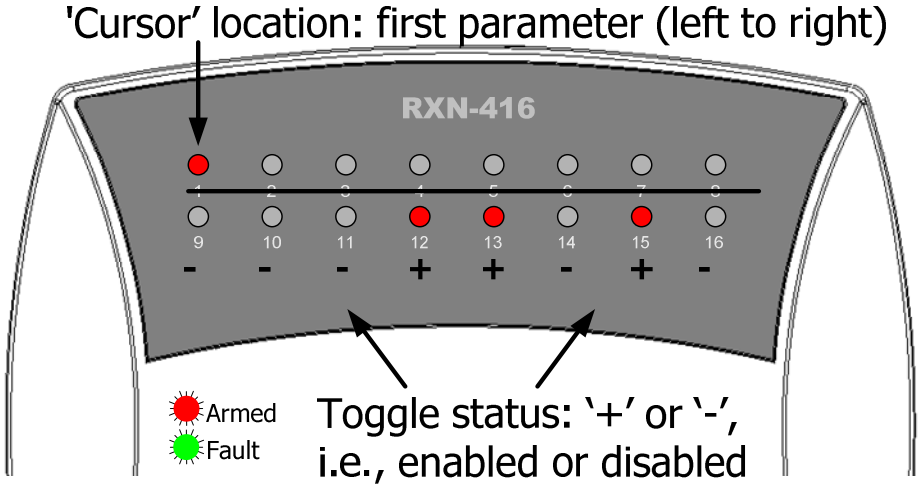


3.4 Set zone #3 to be a 24 Hrs zone

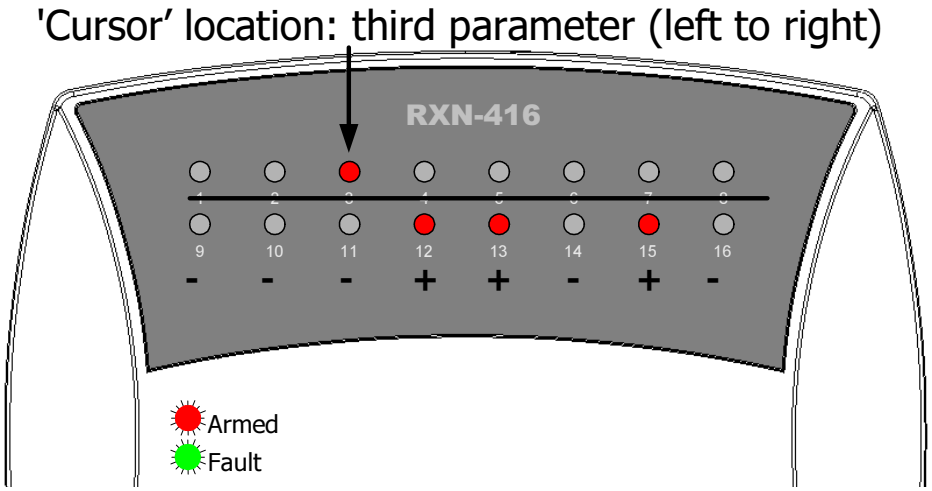
1. Again, start by looking in the parameters address table on chapter 4. Zone #3 characteristics menu (byte 1) has the address of 252. Enter the installer code and press 252. The keypad will enter into programming mode and display the address:



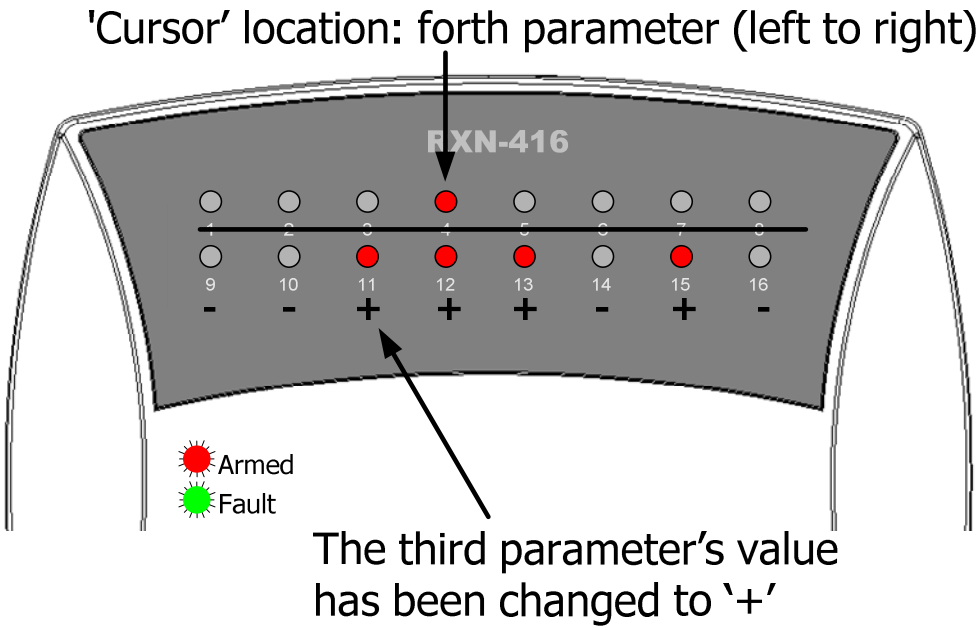
2. Press ENTR. The keypad displays zone #3 current programmed characteristics. If the menu contains more than 8 parameters, see Figure 3 on page 4.



3. Press the NEXT button twice to advance the 'cursor' to the 3rd parameter, '24 Hrs. zone'.



4. Press the pound key (#) to toggle the parameters value between '+' and '-', i.e. disabled and enabled. As in the LCD keypad, the value is changed and the 'cursor' advances to the next parameter, the 4th in this example.



5. Press ENTR to save the data.

4. THE PARAMETERS TABLE

Parameter	Address
Communication	
Private Phone 1 (0-9=Digits A=Pause B='+' C='#' D='*')	1
Private Phone 2	2
Private Phone 3	3
Private Phone 4	4
Station PSTN Phone 1	5
Station PSTN Phone 2	6
Station PSTN Phone 3	7
Station PSTN Phone 4	8
Station GSM Phone 1	9
Station GSM Phone 2	10
Station GSM Phone 3	11
Station GSM Phone 4	12
Call-Back Phone 1	13
Call-Back Phone 2	14
Call-Back Phone 3	15
PSTN Account ID 1	16
Radio Account ID 1	17
PSTN Account ID 2	18
Radio Account ID 2	19
PSTN Account ID 3	20
Radio Account ID 3	21
PSTN Account ID 4	22
Radio Account ID 4	23
PSTN Account ID 5	24
Radio Account ID 5	25
PSTN Account ID 6	26
Radio Account ID 6	27
PSTN Account ID 7	28
Radio Account ID 7	29
PSTN Account ID 8	30
Radio Account ID 8	31
PSTN Account ID 9	32
Radio Account ID 9	33
PSTN Account ID10	34
Radio Account ID10	35
PSTN Account ID 11	36
Radio Account ID 11	37

Parameter	Address
PSTN Account ID 12	38
Radio Account ID 12	39
PSTN Account ID 13	40
Radio Account ID 13	41
PSTN Account ID 14	42
Radio Account ID 14	43
PSTN Account ID 15	44
Radio Account ID 15	45
PSTN Account ID 16	46
Radio Account ID 16	47
External Line access	48
Number of Rings	49
MS Dialing Number	50
Communication Options 1	51
Communication Options 2	52
Station 1 PSTN Format(1)	53
Station 1 PSTN Format(2)	54
Station 1 Radio Format	55
Station 2 PSTN Format (1)	56
Station 2 PSTN Format(2)	57
Station 1 report options	58
Station 1 report options(2)	59
Station 1 report options(3)	60
Future Use	61
Station 2 report options	62
Station 2 report options(2)	63
Station 2 report options(3)	64
Future Use	65
PSTN ACK time	66
GSM ACK time	67
PSTN test time (Hours)	68
PSTN test time (Minutes)	69
PSTN test interval (Hours)	70
Radio test interval (Hours)	71
Radio test interval (minutes)	72
No. of Radio Transmissions	73
Communication Mode	74
Account ID pre number	75

Parameter	Address
SMS Private Configuration	76
Private dialer options (1)	77
Private dialer options (2)	78
Out SMS Phone	79
In SMS Phone	80
GSM_Configuration	81
GSM200 Mode(1)	82
GSM200 Mode(2)	83
GPRS IP digit 1	84
GPRS IP digit 2	85
GPRS IP digit 3	86
GPRS IP digit 4	87
GPRS IP(2nd Station) digit 1	88
GPRS IP(2nd Station) digit 2	89
GPRS IP(2nd Station) digit 3	90
GPRS IP(2nd Station) digit 4	91
GPRS PORT	92
GPRS PORT(2)	93
GPRS Server Test Interval(Hrs)	94
GPRS Server Test Interval(Mins)	95
Provider Number	96
Network Test Interval(Hrs)	97
Network Test Interval(Mins)	98
Home Automation Interval Time	99
Serial Configuration	100
Network Attempts to Fault	101
PSTN Report Codes	
Mains Fault	102
Mains Restore	103
Low Battery Report	104
Low Battery Restore	105
Tamper 1 Open	106
Tamper 1 Close	107
Tamper 2 Open	108
Tamper 2 Close	109
Power Fault	110
Power Restore	111
Phone Line Fault	112
Phone Line Restore	113
Open	114
Close	115

Parameter	Address
Test	116
Fuse Fail	117
Fuse Restore	118
Panic	119
False Code	120
Zone 1 Alarm Report	121
Zone 2 Alarm Report	122
Zone 3 Alarm Report	123
Zone 4 Alarm Report	124
Zone 5 Alarm Report	125
Zone 6 Alarm Report	126
Zone 7 Alarm Report	127
Zone 8 Alarm Report	128
Zone 9 Alarm Report	129
Zone 10 Alarm Report	130
Zone 11 Alarm Report	131
Zone 12 Alarm Report	132
Zone 13 Alarm Report	133
Zone 14 Alarm Report	134
Zone 15 Alarm Report	135
Zone 16 Alarm Report	136
Zone 1 Restore Report	137
Zone 2 Restore Report	138
Zone 3 Restore Report	139
Zone 4 Restore Report	140
Zone 5 Restore Report	141
Zone 6 Restore Report	142
Zone 7 Restore Report	143
Zone 8 Restore Report	144
Zone 9 Restore Report	145
Zone 10 Restore Report	146
Zone 11 Restore Report	147
Zone 12 Restore Report	148
Zone 13 Restore Report	149
Zone 14 Restore Report	150
Zone 15 Restore Report	151
Zone 16 Restore Report	152
Zone Fail Report	153
Zone Fail Restore Report	154
Zone Bypass	155

Parameter	Address
Radio Report Codes	
Mains Fault	156
Mains Restore	157
Low Battery Report	158
Low Battery Restore	159
Tamper 1 Open	160
Tamper 1 Close	161
Tamper 2 Open	162
Tamper 2 Close	163
Power Fault	164
Power Restore	165
Phone Line Fault	166
Phone Line Restore	167
Open	168
Close	169
Test	170
Fuse Fail	171
Fuse Restore	172
Panic	173
False Code	174
Zone 1 Alarm Report	175
Zone 2 Alarm Report	176
Zone 3 Alarm Report	177
Zone 4 Alarm Report	178
Zone 5 Alarm Report	179
Zone 6 Alarm Report	180
Zone 7 Alarm Report	181
Zone 8 Alarm Report	182
Zone 9 Alarm Report	183
Zone 10 Alarm Report	184
Zone 11 Alarm Report	185
Zone 12 Alarm Report	186
Zone 13 Alarm Report	187
Zone 14 Alarm Report	188
Zone 15 Alarm Report	189
Zone 16 Alarm Report	190
Zone 1 Restore Report	191
Zone 2 Restore Report	192
Zone 3 Restore Report	193
Zone 4 Restore Report	194

Parameter	Address
Zone 5 Restore Report	195
Zone 6 Restore Report	196
Zone 7 Restore Report	197
Zone 8 Restore Report	198
Zone 9 Restore Report	199
Zone 10 Restore Report	200
Zone 11 Restore Report	201
Zone 12 Restore Report	202
Zone 13 Restore Report	203
Zone 14 Restore Report	204
Zone 15 Restore Report	205
Zone 16 Restore Report	206
Zone Fail Report	207
Zone Fail Restore Report	208
Zone Bypass	209
Installation	
Service Day	210
Service Month	211
Expanders Setup	212
Number of Remote Zone Expanders	213
Number of Keypads	214
Keypad 1 Partition (1-8)	215
Keypad 1 Partition (9-16)	216
Keypad 2 Partition (1-8)	217
Keypad 2 Partition (9-16)	218
Keypad 3 Partition (1-8)	219
Keypad 3 Partition (9-16)	220
Keypad 4 Partition (1-8)	221
Keypad 4 Partition (9-16)	222
Keypad 5 Partition (1-8)	223
Keypad 5 Partition (9-16)	224
Keypad 6 Partition (1-8)	225
Keypad 6 Partition (9-16)	226
Keypad 7 Partition (1-8)	227
Keypad 7 Partition (9-16)	228
Keypad 8 Partition (1-8)	229
Keypad 8 Partition (9-16)	230
Number of Output Expanders (IOR)	231
Zones	
Zone 1 Type (0=Burglary 1=Panic 2=Fire 3=Duress 4=Medical 5=Anti-Mask 6=Special Burglary 1 7= Special Burglary 2 8=Silent Panic 9=Special Fire)	232

Parameter	Address
Zone 2 Type	233
Zone 3 Type	234
Zone 4 Type	235
Zone 5 Type	236
Zone 6 Type	237
Zone 7 Type	238
Zone 8 Type	239
Zone 9 Type	240
Zone 10 Type	241
Zone 11 Type	242
Zone 12 Type	243
Zone 13 Type	244
Zone 14 Type	245
Zone 15 Type	246
Zone 16 Type	247
Zone 1 Characteristics (byte 1) (1=Bypass 2=N.O 3=24 Hrs 4=Home 1 5=Home2 6=Entry Delay 7=Entry Follower 8=Second Entry Delay Time 9=EOL Protected)	248
Zone 1 Characteristics (byte 2) (10=Conditioned Zones 11=Double Knock 12=Enable User Bypass)	249
Zone 2 Characteristics (byte 1)	250
Zone 2 Characteristics (byte 2)	251
Zone 3 Characteristics (byte 1)	252
Zone 3 Characteristics (byte 2)	253
Zone 4 Characteristics (byte 1)	254
Zone 4 Characteristics (byte 2)	255
Zone 5 Characteristics (byte 1)	256
Zone 5 Characteristics (byte 2)	257
Zone 6 Characteristics (byte 1)	258
Zone 6 Characteristics (byte 2)	259
Zone 7 Characteristics (byte 1)	260
Zone 7 Characteristics (byte 2)	261
Zone 8 Characteristics (byte 1)	262
Zone 8 Characteristics (byte 2)	263
Zone 9 Characteristics (byte 1)	264
Zone 9 Characteristics (byte 2)	265
Zone 10 Characteristics (byte 1)	266
Zone 10 Characteristics (byte 2)	267
Zone 11 Characteristics (byte 1)	268

Parameter	Address
Zone 11 Characteristics (byte 2)	269
Zone 12 Characteristics (byte 1)	270
Zone 12 Characteristics (byte 2)	271
Zone 13 Characteristics (byte 1)	272
Zone 13 Characteristics (byte 2)	273
Zone 14 Characteristics (byte 1)	274
Zone 14 Characteristics (byte 2)	275
Zone 15 Characteristics (byte 1)	276
Zone 15 Characteristics (byte 2)	277
Zone 16 Characteristics (byte 1)	278
Zone 16 Characteristics (byte 2)	279
Burglary Response	280
Panic Response	281
Fire Response	282
Duress/Hold-up Response	283
Medical Response	284
Anti Mask Response	285
Special Burg. 1Response	286
Special Burg. 2 Response	287
Silent Panic Response	288
Special Fire Response	289
Burglary Type Sensitivity (X50ms)	290
Panic Type Sensitivity (X50ms)	291
Fire Type Sensitivity (X50ms)	292
Duress/Hold-up Type Sensitivity (X50ms)	293
Medical Type Sensitivity (X50ms)	294
Anti Mask Type Sensitivity (X50ms)	295
Special Burg. 1Type Sensitivity (X50ms)	296
Special Burg. 2 Type Sensitivity (X50ms)	297
Silent Panic Type Sensitivity (X50ms)	298
Special Fire Type Sensitivity (X50ms)	299
Zone 1 Partition (1-8)	300
Zone 1 Partition (9-16)	301
Zone 2 Partition (1-8)	302
Zone 2 Partition (9-16)	303
Zone 3 Partition (1-8)	304
Zone 3 Partition (9-16)	305
Zone 4 Partition (1-8)	306
Zone 4 Partition (9-16)	307

Parameter	Address
Zone 5 Partition (1-8)	308
Zone 5 Partition (9-16)	309
Zone 6 Partition (1-8)	310
Zone 6 Partition (9-16)	311
Zone 7 Partition (1-8)	312
Zone 7 Partition (9-16)	313
Zone 8 Partition (1-8)	314
Zone 8 Partition (9-16)	315
Zone 9 Partition (1-8)	316
Zone 9 Partition (9-16)	317
Zone 10 Partition (1-8)	318
Zone 10 Partition (9-16)	319
Zone 11 Partition (1-8)	320
Zone 11 Partition (9-16)	321
Zone 12 Partition (1-8)	322
Zone 12 Partition (9-16)	323
Zone 13 Partition (1-8)	324
Zone 13 Partition (9-16)	325
Zone 14 Partition (1-8)	326
Zone 14 Partition (9-16)	327
Zone 15 Partition (1-8)	328
Zone 15 Partition (9-16)	329
Zone 16 Partition (1-8)	330
Zone 16 Partition (9-16)	331
Timers, Counters	
Entry Delay Time (1)	332
Entry Delay Time (2)	333
Exit Delay Time	334
Soak Days	335
Number of keystrokes for False Code	336
Pair Time	337
Double Knock time	338
Mains Fault Report Delay Time	339
User Bypass Limit Time	340
Phone Fault Report Delay Time	341
Number of System Inactivity days to Report	342
Wireless Zones Supervision Interval (Hrs)	343
Wireless Zones Supervision Interval (Mins)	344
Alarm Report Delay (Entry Rout)	345
Output Timers	346
External Siren Time	346

Parameter	Address
Internal Siren Time	347
Alarm Output Time	348
Anti-Mask Output Time	349
Special Alarm 1 Output Time	350
Special Alarm 2 Output Time	351
Smoke Output Time	352
Fire Output Time	353
Special Fire Output Time	354
Panic Output Time	355
Silent Panic	356
Hold-Up	357
Medical	358
Tamper	359
Mains Fault	360
Low Battery	361
Phone Fault	362
Zone Fault	363
Zone Bypass	364
GSM Transmitter Fault	365
Communication Fault	366
Ace Activating	367
Door Code	368
Wireless Remote	369
MS Test	370
Audio Control	371
PSTN/Cellular Remote	372
After Zone Closed Delay	373
General Parameters	
General Parameters Screen 1, Parameters 1-8 (1=2 Status Key 2=DC Siren 3=Tamper 1 connected 4=Tamper 1 EOL 5=Tamper 2 connected 6=Tamper 2 EOL 7=Key>Home 8=Auto Arm>Home)	374
General Parameters Screen 1, Parameters 9-16 (9=Zone Bypass in Auto Arming 10=Two EOL Resistors 11=Siren Beep in Arming 12=User Menu 13=Enhanced Menu 14=N/A 15=Bypass Open Tamper in Arming 16=Bypass Fault in Arming)	375
General Parameters Screen 2, Parameters 1-8 (1=Light Keypad Continuously 2=Light Keypad in Alarm 3=Light Keypad in Entry Delay 4=Buzzer in Alarm 5=Enable Fast Arming 6=Cancel Delay in Home1 7=Cancel Delay in Home 2 8=Display Alarms in ARM)	376

Parameter	Address
General Parameters Screen 2, Parameters 9-16 (9=N/A 10=Re-trigger Open Zones 11=Display Armed Partitions 12=Final Door 13=Full Remote Control (PSTN) 14=Report W/L Jamming 15 Auto Arming by Partition 16=N/A)	377
System Response	
Mains Fault (1=Activate Siren 2=Ext.Siren in Disarm 3=Activate Burglary Type Output 4=No MS report in Disarm)	378
Low Battery	379
Phone Line Fault	380
False Code	381
Tamper/Zone Fault	382
Outputs Configuration	
Ext. Siren Type (0=Ext.Siren 1=Int.Siren 2=Burglary 3=Anti-Mask 4=Spec.Burg.1 5=Spec.Burg.2 6=Burglary all types 7=Fire 8=Special Fire 9=Panic 10=Silent Panic 11=Hold-Up 12=Medical 13-Alarm-all types 14=Audio Control 15=Zone Opened 16=Zone Bypassed 17=Smoke Det. Power 18=Tamper 19=Zone Tamper/Fault 20-=Buzzer 21=Armed 22-Installer Programming 23=General Fault 24=Mains Fault 25=Low Battery 26=Phone Line Fault 27=GSM Tx Fault 28=Communication Fault 29=N/A 30=Door Code 31=W/L Remote 32=MS Test 33,34=N/A 35=Remote Control (PSTN) 36=N/A 37=MS Acknowledge)	383
Int. Siren Type	384
Relay Type	385
Smoke Type	386
ON/OFF Type	387
ALARM Type	388
Audio Control Type	389
OUT-1000 -1 Type	390
OUT-1000 -2 Type	391
OUT-1000 -3 Type	392
OUT-1000 -4 Type	393
OUT-1000 -5 Type	394
OUT-1000 -6 Type	395
OUT-1000 -7 Type	396
OUT-1000 -8 Type	397
IOR 1 Type	398

Parameter	Address
IOR 2 Type	399
IOR 3 Type	400
IOR 4 Type	401
IOR 5 Type	402
IOR 6 Type	403
IOR 7 Type	404
IOR 8 Type	405
IOR 9 Type	406
IOR 10 Type	407
IOR 11 Type	408
IOR 12 Type	409
IOR 13 Type	410
IOR 14 Type	411
IOR 15 Type	412
IOR 16 Type	413
IO8 1 Output Type	414
Siren 1 Partition (1-8)	415
Siren 1 Partition (9-16)	416
Siren 2 Partition (1-8)	417
Siren 2 Partition (9-16)	418
Relay Partition (1-8)	419
Relay Partition (9-16)	420
Smoke Partition (1-8)	421
Smoke Partition (9-16)	422
ON/OFF Partition (1-8)	423
ON/OFF Partition (9-16)	424
ALARM Partition (1-8)	425
ALARM Partition (9-16)	426
Audio Control Partition (1-8)	427
Audio Control Partition (9-16)	428
OUT-1000-1 Partition (1-8)	429
OUT-1000-1 Partition (9-16)	430
OUT-1000-2 Partition (1-8)	431
OUT-1000-2 Partition (9-16)	432
OUT-1000-3 Partition (1-8)	433
OUT-1000-3 Partition (9-16)	434
OUT-1000-4 Partition (1-8)	435
OUT-1000-4 Partition (9-16)	436
OUT-1000-5 Partition (1-8)	437
OUT-1000-5 Partition (9-16)	438
OUT-1000-6 Partition (1-8)	439
OUT-1000-6 Partition (9-16)	440

Parameter	Address
OUT-1000-7 Partition (1-8)	441
OUT-1000-7 Partition (9-16)	442
OUT-1000-8 Partition (1-8)	443
OUT-1000-8 Partition (9-16)	444
IOR Partition 1 (1-8)	445
IOR Partition 1 (9-16)	446
IOR Partition 2 (1-8)	447
IOR Partition 2 (9-16)	448
IOR Partition 3 (1-8)	449
IOR Partition 3 (9-16)	450
IOR Partition 4 (1-8)	451
IOR Partition 4 (9-16)	452
IOR Partition 5 (1-8)	453
IOR Partition 5 (9-16)	454
IOR Partition 6 (1-8)	455
IOR Partition 6 (9-16)	456
IOR Partition 7 (1-8)	457
IOR Partition 7 (9-16)	458
IOR Partition 8 (1-8)	459
IOR Partition 8 (9-16)	460
IOR Partition 9 (1-8)	461
IOR Partition 9 (9-16)	462
IOR Partition 10 (1-8)	463
IOR Partition 10 (9-16)	464
IOR Partition 11 (1-8)	465
IOR Partition 11 (9-16)	466
IOR Partition 12 (1-8)	467
IOR Partition 12 (9-16)	468
IOR Partition 13 (1-8)	469
IOR Partition 13 (9-16)	470
IOR Partition 14 (1-8)	471
IOR Partition 14 (9-16)	472
IOR Partition 15 (1-8)	473
IOR Partition 15 (9-16)	474
IOR Partition 16 (1-8)	475
IOR Partition 16 (9-16)	476
IO8 Partition 16 (1-8)	477
IO8 Partition 16 (9-16)	478
Siren 1 Polarity/Active (1=Polarity 2=Active in Disarm)	479
Siren 2 Polarity/Active	480
Relay Polarity/Active	481
Smoke Polarity/Active	482

Parameter	Address
ON/OFF Polarity/Active	483
Alarm Polarity/Active	484
Audio Control Polarity/Active	485
OUT-1000 -1 Polarity/Active	486
OUT-1000 -2 Polarity/Active	487
OUT-1000 -3 Polarity/Active	488
OUT-1000 -4 Polarity/Active	489
OUT-1000 -5 Polarity/Active	490
OUT-1000 -6 Polarity/Active	491
OUT-1000 -7 Polarity/Active	492
OUT-1000 -8 Polarity/Active	493
IOR -1 Polarity/Active	494
IOR -2 Polarity/Active	495
IOR -3 Polarity/Active	496
IOR -4 Polarity/Active	497
IOR -5 Polarity/Active	498
IOR -6 Polarity/Active	499
IOR -7 Polarity/Active	500
IOR -8 Polarity/Active	501
IOR -9 Polarity/Active	502
IOR -10 Polarity/Active	503
IOR -11 Polarity/Active	504
IOR -12 Polarity/Active	505
IOR -13 Polarity/Active	506
IOR -14 Polarity/Active	507
IOR -15 Polarity/Active	508
IOR -16 Polarity/Active	509
IO8 Polarity	510
Installer	
Installer Code	511
Users	
User 1 Settings (byte 1) (1=Code Programming 2=Telephone Programming 3=Date 4=Log View 5=Zone Bypass 6=Use Any Keypad 7=Auto Arming Programming 8=Send Open/Close reports by SMS)	512
User 1 Settings (byte 2) (9=Enable Remote Control via PSTN)	513
User 2 Settings (byte 1)	514
User 2 Settings (byte 2)	515
User 3 Settings (byte 1)	516
User 3 Settings (byte 2)	517
User 4 Settings (byte 1)	518

Parameter	Address
User 4 Settings (byte 2)	519
User 5 Settings (byte 1)	520
User 5 Settings (byte 2)	521
User 6 Settings (byte 1)	522
User 6 Settings (byte 2)	523
User 7 Settings (byte 1)	524
User 7 Settings (byte 2)	525
User 8 Settings (byte 1)	526
User 8 Settings (byte 2)	527
User 9 Settings (byte 1)	528
User 9 Settings (byte 2)	529
User 10 Settings (byte 1)	530
User 10 Settings (byte 2)	531
User 11 Settings (byte 1)	532
User 11 Settings (byte 2)	533
User 12 Settings (byte 1)	534
User 12 Settings (byte 2)	535
User 13 Settings (byte 1)	536
User 13 Settings (byte 2)	537
User 14 Settings (byte 1)	538
User 14 Settings (byte 2)	539
User 15 Settings (byte 1)	540
User 15 Settings (byte 2)	541
User 16 Settings (byte 1)	542
User 16 Settings (byte 2)	543
Short Code	544
Users Time Window for Disarming	
User 1 Start Hrs	545
User 1 Start Mins	546
User 1 Stop Hrs	547
User 1 Stop Mins	548
User 2 Start Hrs	549
User 2 Start Mins	550
User 2 Stop Hrs	551
User 2 Stop Mins	552
User 3 Start Hrs	553
User 3 Start Mins	554
User 3 Stop Hrs	555
User 3 Stop Mins	556
User 4 Start Hrs	557
User 4 Start Mins	558
User 4 Stop Hrs	559

Parameter	Address
User 4 Stop Mins	560
User 5 Start Hrs	561
User 5 Start Mins	562
User 5 Stop Hrs	563
User 5 Stop Mins	564
User 6 Start Hrs	565
User 6 Start Mins	566
User 6 Stop Hrs	567
User 6 Stop Mins	568
User 7 Start Hrs	569
User 7 Start Mins	570
User 7 Stop Hrs	571
User 7 Stop Mins	572
User 8 Start Hrs	573
User 8 Start Mins	574
User 8 Stop Hrs	575
User 8 Stop Mins	576
User 9 Start Hrs	577
User 9 Start Mins	578
User 9 Stop Hrs	579
User 9 Stop Mins	580
User 10 Start Hrs	581
User 10 Start Mins	582
User 10 Stop Hrs	583
User 10 Stop Mins	584
User 11 Start Hrs	585
User 11 Start Mins	586
User 11 Stop Hrs	587
User 11 Stop Mins	588
User 12 Start Hrs	589
User 12 Start Mins	590
User 12 Stop Hrs	591
User 12 Stop Mins	592
User 13 Start Hrs	593
User 13 Start Mins	594
User 13 Stop Hrs	595
User 13 Stop Mins	596
User 14 Start Hrs	597
User 14 Start Mins	598
User 14 Stop Hrs	599
User 14 Stop Mins	600
User 15 Start Hrs	601

Parameter	Address
User 15 Start Mins	602
User 15 Stop Hrs	603
User 15 Stop Mins	604
User 16 Start Hrs	605
User 16 Start Mins	606
User 16 Stop Hrs	607
User 16 Stop Mins	608
User 1 Partition (1-8)	609
User 1 Partition (9-16)	610
User 2 Partition (1-8)	611
User 2 Partition (9-16)	612
User 3 Partition (1-8)	613
User 3 Partition (9-16)	614
User 4 Partition (1-8)	615
User 4 Partition (9-16)	616
User 5 Partition (1-8)	617
User 5 Partition (9-16)	618
User 6 Partition (1-8)	619
User 6 Partition (9-16)	620
User 7 Partition (1-8)	621
User 7 Partition (9-16)	622
User 8 Partition (1-8)	623
User 8 Partition (9-16)	624
User 9 Partition (1-8)	625
User 9 Partition (9-16)	626
User 10 Partition (1-8)	627
User 10 Partition (9-16)	628
User 11 Partition (1-8)	629
User 11 Partition (9-16)	630
User 12 Partition (1-8)	631
User 12 Partition (9-16)	632
User 13 Partition (1-8)	633
User 13 Partition (9-16)	634
User 14 Partition (1-8)	635
User 14 Partition (9-16)	636
User 15 Partition (1-8)	637
User 15 Partition (9-16)	638
User 16 Partition (1-8)	639
User 16 Partition (9-16)	640