

**Alarm Control Panel**

**CA-5**

Program Version 1.09

**Satel** 

GDAŃSK

# **SETTINGS LIST**



## TABLE OF BINARY CODES

The numbers are to be read out from the LED 2 to 5 of the LED keypad and entered as indicated in the table below and on the keypad.

**Decimal numbers** - items 0-9 of the table.

**Hexadecimal numbers** - items 0-15 of the table. In the LED keypads the hexadecimal characters from A to F should be entered by pressing in turn the asterisk key and the numeric key.

VALUE	CHARACTER	KEYS	INDICATIONS OF LEDs			
			2	3	4	5
0	0	0	○	○	○	○
1	1	1	○	○	○	●
2	2	2	○	○	●	○
3	3	3	○	○	●	●
4	4	4	○	●	○	○
5	5	5	○	●	○	●
6	6	6	○	●	●	○
7	7	7	○	●	●	●
8	8	8	●	○	○	○
9	9	9	●	○	○	●
10	A	*0	●	○	●	○
11	B	*1	●	○	●	●
12	C	*2	●	●	○	○
13	D	*3	●	●	○	●
14	E	*4	●	●	●	○
15	F	*5	●	●	●	●

○ - LED is off

● - LED is on

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SECURITY SYSTEM.....  
USER .....  
TELEPHONE NUMBER .....  
ADDRESS .....  
REMARKS.....  
.....

The mode of operation of the alarm control panel is defined by the security system parameters. Changing these parameters makes it possible to adapt the panel operation to individual needs of the protected site. The initial settings, or the so-called „*defaults*”, are indicated in the description of each service function.

**The service functions** allow changes in the settings of particular system parameters to be made by means of the keypad. Such changes can only be made when the control panel is not armed and when it signals no alarm.

The parameters can also be changed remotely by means of the computer and the DLOAD10 program. In order to do so, the „downloading” (DWNL) function of the control panel must be used (see description in the CA-5 INSTALLER MANUAL). The program makes it possible to assign **names** to the users and zones. Such names will be displayed when viewing the memory log in the LCD keypad or on the computer screen.

## **ACTIVATION OF SERVICE MODE**

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To change any parameter by means of the service function, activate the service mode in the control panel ([SERVICE CODE] [#]), enter the number of the corresponding service function and press the [#] key. The numbers and descriptions of functions are included hereunder in this manual.

It is also possible to call the service mode without entering the service code. With this aim you should:

- disconnect the control panel power supply (first the mains, then the battery),
- put a jumper on the RESET pins on the control panel mainboard,
- reconnect the control panel power supply: first the battery, then the mains – the LED keypad will start blinking with all its LEDs and generating short beeps; the LCD keypad will display a “No CLK signal” message and generate short beeps
- remove the jumper – the keypads will confirm the panel entering the service mode by four short and one long beeps; in the LED keypad, the PROGRAM diode will light up; in the LCD keypad, the service mode menu will display.

This procedure is colloquially known as the entry „from pins” (see description of function FS 9).

## **PROGRAMMING WITH LED KEYPAD**

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Having called the service function, check the current setup or enter new data. The way of data entry is described in subsequent sections. Press [#] in order to memorize the new setting of a parameter, or press [\*] and hold down until you hear two long beeps, or, alternatively, press in turn [\*][#] to quit the function without making any changes.

Checking the setup of numeric parameters (which require numbers to be entered) is possible by **double pressing** the [\*] key. Displayed in the binary system on the LEDs (2-5) are

consecutive digits of the number programmed with the given function (the review procedure is presented in the CA-5 USER MANUAL - description of the „Set time” function).

In order to change a parameter after beginning the review (readout) of the settings, bring to an end the sequence of checking the settings (two long beeps after pressing the [\*] key), enter the new data and press [#]. Optionally, exit the function, call it again and enter the changes.

After quitting the function, the control panel returns to the service mode. In order to exit the service mode, call the function **FS 0**.

## **PROGRAMMING WITH LCD KEYPAD**

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Programming the system parameters is carried out in much the same way as for the LED type keypad. When in the service mode [SERVICE CODE][#], the access to any of the service functions included in the „CA-5 SETTINGS LIST” is possible after entering the function number and pressing the [#] key. The values of parameters being currently programmed are shown directly on the display. It is possible to change the values of these parameters by entering corresponding data from the keypad.

Select the option by calling the corresponding function to light up the **Y** character at the option name. The character lights up on pressing any numeric key. Press any numeric key again to extinguish the **Y** character (deactivate the option).

Another method of programming consists in moving around the service functions menu by means of the [▲],[▼],[◀],[▶] arrow keys. The functions have been grouped so as to facilitate search for the required parameters. The keypad indicates by suitable prompts which parameter is currently being programmed.

[▶],[#] - go up the menu, call the displayed function,

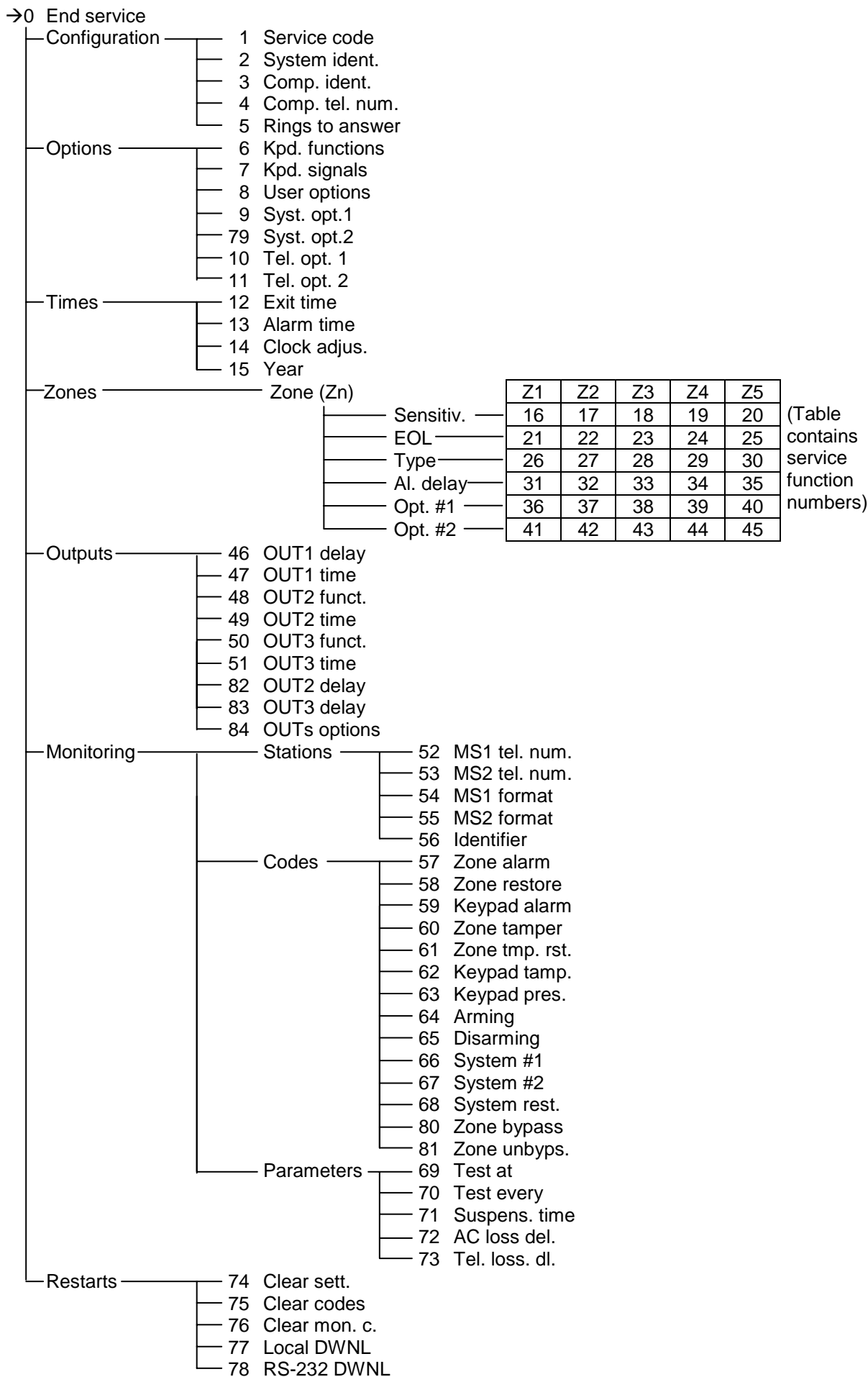
[#] - confirm the change of function parameters

[◀],[\*] - return to the previous level of menu, quit the function without saving the changes

[▲],[▼] - scroll the menu within the current level

When entering the hexadecimal code values in LCD keypads, press the [▲] key to make possible input of the A, B, C, D, E, F characters, which is indicated by appearance of the \* mark at the right upper corner of the display. When entering the telephone numbers, the A (end of number) character is unavailable - it is added automatically. In order to enter the event codes for monitoring purposes, the A, B, C, D, E, F characters can be input upon pressing the [◀] or [▶] key.

## SERVICE FUNCTIONS (FS) MENU IN LCD KEYPADS



## SERVICE MODE FUNCTIONS

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### FS 0 – END OF SERVICE MODE

**Note:** Termination of the service mode activates the **control panel restart** function (without recording this event in memory). If any 24h zones or tampers (e.g. of detectors) are violated at that moment, alarm will be triggered. If violated, the arming zone will arm the control panel.

### 1. CONFIGURATION OF SERVICE MODE

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In order to enter digital data, press in turn the keypad keys as indicated at the beginning of the manual in the table of binary codes.

In functions requiring value entry, the 0-255 range numbers may be entered without the leading zeros. For example, the number 7 can be entered as 007 or 07 or 7. During the parameter setting review, the control panel will always display at the beginning of the number the non-significant zeros complementing it to three digits, as shown in default settings of those functions (e.g. FS 5).

#### FS 1 - SERVICE CODE

|\_|\_|\_|\_|\_|\_|\_|\_|\_|#

(decimal)

Program from 4 to 8 digits.

default |1|2|3|4|5|#

**Note:** The service code settings cannot be checked.

#### FS 2 – SYSTEM IDENTIFIER

|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|#

(hexadecimal - acc. to the table of codes)

default |3|7|3|6|3|5|3|4|3|3|3|2|3|1|3|0|#

Program all 16 characters. The table of codes is shown at the beginning of this manual.

#### FS 3 - COMPUTER IDENTIFIER

|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|#

(hexadecimal)

default |3|0|3|1|3|2|3|3|3|4|3|5|3|6|3|7|#

Program all 16 characters.

#### FS 4 - COMPUTER TELEPHONE NUMBER

|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|#

(hexadecimal)

default |A|A|A|A|A|A|A|A|A|A|A|A|A|A|A|A|#

A=end of number

C=tone dial

E=short pause

B=pulse dial

D=wait for continuous tone

F=long pause

Program from the first space up to maximum 16 characters, end the number with the # key - the panel will automatically fill out unused spaces with the A character).

#### FS 5 – RINGS TO ANSWER – number of rings before answer

|\_|\_|\_|#

program from 0 to 7

default |0|0|2|#

## 2. SECURITY SYSTEM OPTIONS

In order to select an option, press the key with the LED number – the corresponding diode will light up. To deselect the option - extinguish the LED which corresponds to its number. For LCD light up/extinguish the **Y** character. Accept the setting with the [#] key.

### FS 6 – KEYPAD FUNCTIONS

LED No.	Name of option in LCD keypad	Set option	Description of option
1	panic alarm		PANIC ALARM ([#]) enabled
2	fire alarm		FIRE ALARM ([*]) enabled
3	medical alarm		MEDICAL ALARM (HELP) ([0]) enabled
4	quick arm.	x	Quick Arm ([0][#]) enabled
5	silent panic		SILENT Panic Alarm

**x**- default

**Note:** The option 5 has meaning when the option 1 has been selected.

### FS 7 – KEYPAD SIGNALS

LED No.	Name of option in LCD keypad	Set option	Description of option
1	entry time	x	Entry delay signaling ( $T_{en}$ )
2	exit time	x	Exit delay signaling ( $T_{ex}$ )
3	alarm	x	Alarm signaling
4	perm. backlight		Permanent illumination
5	auto backlight	x	Auto illumination (on pressing the key)

**x**- default

**Note:** With the options 4 and 5 selected at the same time, the illumination is activated as in the **Auto** mode, and after violation of any control panel zone when armed.

### FS 8 – USER (CODES) OPTIONS

LED No.	Name of option in LCD keypad	Set option	Description of option
1	us.4 – duress		Code 4 generates the DURESS ALARM event
2	us.5 – dis if arm		Code 5 disarms the system, only if it armed itself
3	3bad c. – event	x	3 wrong codes generate an event
4	3bad c. – alarm		With 3 wrong codes, event and ALARM
5	no kpd. – alarm	x	Missing keypad (or DTA shorting) triggers the ALARM

**x**- default

## FS 9 – SYSTEM OPTIONS part 1

LED No.	Name of option in LCD keypad	Set option	Description of option
1	SM via jumpers	x	Entry in service mode „from pins” enabled
2	tmp in arm. only	x	Audible tamper alarm in armed mode only
3	suppr. arm. sts.	x	Blanking of armed mode information after 180s
4	not used		reserve
5	monitor. limit.		Maximum 3 alarms from one zone in time intervals shorter than 1 minute

x- default

### Notes:

- The option 1** refers to entering the service mode „from pins”. With this option deactivated, entering the service mode is only possible by means of the **service code**. If the service code has been lost, unblocking of the control panel results in loosing all the settings - the control panel returns to its default settings as after calling the service functions FS 74 and FS 75. To enter the service mode not knowing the code, do the following:

  1. disconnect first the main power supply, then the battery,
  2. put a jumper on the RESET pins,
  3. connect first the battery, then the main power supply,
  4. wait about 60 seconds ( $\pm 5$  seconds) and remove the jumper,
  5. enter the code [1][2][3][4][5] from the keypad (the code is to be entered within 15 seconds of removing the jumper) and terminated by pressing the key [#] or [\*].

After completion of the a.m. operations, the control panel should return to its default settings and stay in the service mode.
- With the **option 2** selected, violation of the 24H TAMPER zone type NO, NC, EOL, or violation of this zone tamper circuit in the 2EOL configuration, when the control panel is disarmed, will be alarm signaled **in the keypad only**. On the other hand, normal violation of the 2EOL 24H TAMPER zone (activating the detector) will set off audible alarm, irrespective of this option setting.

This option does not refer to keypad tampering. If the keypad is cut off when the control panel is disarmed, the alarm will be signaled on the alarm outputs (audible alarm).
- The **option 3** - 3 minutes after the system has been armed, the keypad stops indicating the armed mode status.(LED is off) The indicator lights up again when one of the zones is violated, or when tamper alarm is triggered.
- (The **option 5** limits the number of alarms triggered by one zone down to 3 in time intervals shorter than 1 minute). The **option 5** limits the number of events generated in the system by reducing the number of alarms triggered by one zone down to 3 in time intervals shorter than 1 minute. If the control panel, being in armed state, has received 3 violations from a given zone within a shorter time than 1 minute, then every next violation will be ignored unless 1 minute has passed since the previous violation.



### FS 79 – SYSTEM OPTIONS part 2

LED No.	Name of option in LCD keypad	Set option	Description of option
1	troubles memory	x	Trouble until the current troubles are reviewed (key 7)
2	alarms memory	x	alarm in the zone until the alarm log is reviewed (key 5)
3	not used	x	
4	not used		
5	not used		

x - default

#### Notes:

- Selection of the **option 1** makes the TROUBLE LED remain lit up, even after the alarm cause has ceased to exist, until the current troubles have been reviewed (press and hold down the key 7).
- With the option 2 selected, clearing the alarm signal will not reset the alarm memory for the particular zones which triggered the given alarm. The signaling will be cleared after reviewing the alarm log (press and hold down the key 5) or after arming the system.

### FS 10 – TELEPHONING OPTIONS part 1

LED No.	Name of option in LCD keypad	Set option	Description of option
1	monitoring		Monitoring unblocked
2	no dialton.tst.		Without signal control after lifting the handset
3	Ground Start		Generate GROUND START before beginning of dialing
4	pulse 1/1.5		Pulse proportions in case of pulse dialing 1:1,5 (LED off - 1:2)
5	tone dialing	x	Tone dialing (LED off – pulse dialing)

x- default

### FS 11 – TELEPHONING OPTIONS part 2

LED No.	Name of option in LCD keypad	Set option	Description of option
1	external DWNL		DWNL initialization possible from outside via a telephone line
2	double call.	x	Double call (LED off – after a determined number of rings)
3	always monit.		Do not skip events not confirmed by the monitoring station
4	no DWNL if arm.		DWNL from outside unavailable in the armed mode
5	not used		reserve

x – default

**Note:** The option 2 and the number of rings set with the FS 5 function should be identical on the control panel and on the computer communicating with it by phone (which facilitates activation of the downloading).

### 3. TIMES

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#### FS 12 – EXIT TIME DELAY( $T_{ex}$ )

|\_\_|\_\_|\_\_|#

program from 0 to 255 seconds

default|0|3|0|#

#### FS 13 – KEYPAD ALARM TIME

|\_\_|\_\_|\_\_|#

program from 0 to 255 seconds

default|0|3|0|#

**Note:** When signaling alarm in the keypad, the control panel generates no subsequent alarms and records no events.

#### FS 14 – CLOCK ADJUSTING

|\_\_|\_\_|#

program: 01 to 19 - positive correction 1s to 19s  
 00 - no correction  
 81 do 99 - negative correction -1s to -19s

default|0|0|#

#### FS 15 – YEAR

|\_\_|\_\_|\_\_|#

program from 0 to 255

default |0|0|4|#

**Note:** The year is important for the correct functioning of calendar in leap years. For example, enter 5 for the year 2005.

### 4. ZONES

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#### FS 16, 17, 18, 19, 20 – SENSITIVITY OF ZONES 1, 2, 3, 4, 5

	FS 16 Z1	FS 17 Z2	FS 18 Z3	FS 19 Z4	FS 20 Z5
Zone sensitivity					
default	030	030	030	030	030

program: from 1 to 255 (from 16ms to 4080ms)

To calculate the actual sensitivity, multiply the entered number by 16ms.

**Default sensitivity:** 30 x 16ms = 480ms (0,48 seconds)

#### FS 21, 22, 23, 24, 25 – EOL FOR ZONES 1, 2, 3, 4, 5

	FS 21 Z1	FS 22 Z2	FS 23 Z3	FS 24 Z4	FS 25 Z5
Zone type					
default	003	003	003	003	003

program: from 0 to 5

0. No detector            3. EOL detector  
 1. NC detector         4. 2EOL/NC detector  
 2. NO detector        5. 2EOL/NO detector

### FS 26, 27, 28, 29, 30 – REACTION TYPE OF ZONES 1, 2, 3, 4, 5

	FS 26 Z1	FS 27 Z2	FS 28 Z3	FS 29 Z4	FS 30 Z5
<b>Zone reaction</b>					
<i>default</i>	000	002	002	002	006

program: from 0 to 7

0. ENTRY / EXIT

1. INTERIOR DELAYED

2. INSTANT

3. COUNTING

4. 24H PANIC

5. 24H FIRE

6. 24H TAMPERING

7. ARMING/DISARMING, CLEARING ALARM

8. PERIMETER

9. ENTRY / EXIT FINAL

10. DELAYED

**Note:** The COUNTING zone (type 3) counts up to 2 violations (the second one triggers alarm).  
The counting time is set by the „zone alarm delay” parameter (FS 31-35).

### FS 31, 32, 33, 34, 35 – ZONES 1, 2, 3, 4, 5 ALARM DELAY

	FS 31 Z1	FS 32 Z2	FS 33 Z3	FS 34 Z4	FS 35 Z5
<b>Zone alarm</b>					
<i>default</i>	030	000	000	000	000

program: from 0 to 255 seconds

**Note:**

- The parameter has meaning for zone types 0, 1, 3, 9 and 10. For the ENTRY/EXIT zone, it is the „entry delay time” ( $T_{en}$ ), and for the COUNTING zone - the „violations counting time”.
- Setting the delay time equal to zero for the INTERIOR DELAYED reaction type results in this zone delay time being assumed as equal to the highest value of the current entry delay countdown.

### FS 36, 37, 38, 39, 40 – OPTIONS OF ZONES 1, 2, 3, 4, 5 part 1

LED No.	Name of option in LCD keypad	Description of option	FS 36 Z1	FS 37 Z2	FS 38 Z3	FS 39 Z4	FS 40 Z5
1	Auto reset 3*	Auto reset 3					
2	Al. on exit end*	Alarm when zone is violated after exit delay	x	x	x	x	x
3	Bypass no exit	Bypass when no exit					
4	Priority	Priority		x	x	x	
5	Power up delay	Power up delay 120s.					

X- default

**Note:**

- The options designated with the \* symbol change the meaning **for the type 7 zone**:  
**Option 1** – sets the manner of panel control by the zone:
  - LED is off – bistable control (the panel is armed when the zone is violated, and disarmed when the zone state is normal),
  - LED is on – monostable control (violation of the zone arms, and next violation disarms the system).

**Option 2** – sets the monostable control range (important if the option 1 selected):

- LED is off – zone violation can arm/disarm the system and clear the alarm,
  - LED is on – zone violation can only arm the system (disarming and clearing alarm is only possible with the code).
- Option 3 – the zone will be bypassed if no zone with the ENTRY/EXIT function (function 0 or 9) will be violated during the exit delay countdown.
  - The zone with option 4 selected may not be violated at the moment of arming – if it is, the arming will be refused by the alarm control panel, and names of the violated zones will be displayed on the LCD keypad. This option does not apply to arming by means of the function 7 zone (Arm/Disarm).
  - The zone with option 5 selected is not monitored by the control panel for 120 seconds, starting from the moment of the control panel power-up.

**FS 41, 42, 43, 44, 45 – OPTIONS OF ZONES 1, 2, 3, 4, 5 part 2**

LED No.	Name of option in LCD keypad	Description of option	FS 41 Z1	FS 42 Z2	FS 43 Z3	FS 44 Z4	FS 45 Z5
1	Rest. aft. disarm	Reset after disarming and alarm					
2	Rest. aft. bell	Reset after bell					
3	Abort delay	Abort monitoring during entry delay	x	x	x	x	x
4	Chime in keypad	Chime in keypad	x				
5	Triggers OUT1	Triggers alarm on OUT1*	x	x	x	x	x

\* and output programmed as BURGLARY ALARM

x - default

**5. OUTPUTS**

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**FS 46 SIGNALING DELAY ON OUTPUT OUT1**

\_\_\_|\_\_\_|\_\_\_|#

default|0|0|0|#

Program: from 0 to 255 (from 0s to 1020s).

To calculate the actual delay time, multiply the entered number by 4 seconds.

**FS 47 SIGNALING TIME ON OUTPUT OUT1**

\_\_\_|\_\_\_|\_\_\_|#

default|0|1|5|#

Program: from 1 to 255 (from 4s to 1020s),

for 0 – the output active time is 60 seconds.

To calculate the actual signaling time, multiply the entered number by 4 seconds.

The **default** alarm time: 15 x 4s = 60s (1 minute)

## FS 48, 50 – FUNCTIONS OF OUTPUTS OUT2, OUT3

## FS 49, 51 – ACTIVE TIME OF OUTPUTS OUT2, OUT3

	FS 48 OUT2	FS 50 OUT3
<b>Output function</b>		
<i>default</i>	001	005

Program from 0 to 15.

- 0. NOT USED
- 1. BURGLARY ALARM
- 2. KEYPAD ALARM
- 3. READY STATUS
- 4. ARMED STATUS
- 5. INDICATOR OF AC, BATTERY OR TELEPHONE LINE TROUBLE
- 6. AC LOSS INDICATOR
- 7. BATTERY TROUBLE INDICATOR
- 8. TELEPHONE LINE TROUBLE INDICATOR
- 9. GROUND START SIGNAL
- 10. TELEPHONE LINE RELAY
- 11. MONO SWITCH
- 12. BI SWITCH
- 13. RESETTABLE POWER
- 14. DURESS ALARM
- 15. MONITORING ACKNOWLEDGEMENT
- 16. PARTIALLY ARM STATUS

### Notes:

- *Functioning of the type 10 output is described in the CA-5 USER MANUAL, Section „Connection of Telephone Line”.*
- *If active time equal to zero has been programmed for the type 1 (BURGLARY ALARM) or 14 (DURESS ALARM) output, the output will remain active until the alarm is cleared.*
- *The active status of the DURESS ALARM output cannot be reset by using the user code No.4, when the DURESS option has been selected (FS 8 option 1).*

	FS 49 OUT2	FS 51 OUT3
<b>Output active time</b>		
<i>default</i>	000	000

Program: from 1 to 255 (from 4s to 1020s).  
The times are calculated similarly as for FS 47.  
for 0 – the output active time is about 0,1 s

## FS 82 OUT2 OUTPUT ALARM DELAY

|\_|\_|# *default|0|0|0|0|0|#*

Program: from 0 to 255 (from 0s to 1020s).

To calculate the actual delay time, multiply the entered number by 4 seconds.

## FS 83 OUT3 OUTPUT ALARM DELAY

|\_|\_|# *default |0|0|0|0|0|#*

Program: from 0 to 255 (from 0s to 1020s).

To calculate the actual delay time, multiply the entered number by 4 seconds.

**Note:** *The delay time programmed with the function FS 82 or FS 83 refers to the alarm function output only.*



**FS 54, 55 – FORMAT OF DATA TRANSMISSION TO THE MONITORING STATION**

	<b>FS 54 Telephone 1</b>	<b>FS 55 Telephone 2</b>
<b>Transmission format</b>		
<i>default</i>	<i>015</i>	<i>007</i>

Program from 0 to 15

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>0. Silent Knight, Ademco slow (10 BPS)</li> <li>1. Sescoa, Franklin, DCI, Vertex (20 BPS)</li> <li>2. Silent Knight fast</li> <li>3. Radionics 1400Hz</li> <li>4. Radionics 2300Hz</li> <li>5. Radionics with parity 1400Hz</li> <li>6. Radionics with parity 2300Hz</li> <li>7. Ademco Express (DTMF)</li> <li>8. Silent Knight, Ademco slow, extended</li> </ul> | <ul style="list-style-type: none"> <li>9. Sescoa, Franklin, DCI, Vertex, extended</li> <li>10. Silent Knight fast, extended</li> <li>11. Radionics 1400Hz, extended</li> <li>12. Radionics 2300Hz, extended</li> <li>13. 0 no handshake (Silent Knight, Ademco 10BPS - without confirmations)</li> <li>14. Contact ID - selected codes</li> <li>15. Contact ID - all codes</li> </ul> |
|---|---|

**Note:** *The 14 format (Contact ID selected codes) is used to monitor those events, which have any non-zero monitoring code programmed in the corresponding functions.*

**FS 56 - IDENTIFIER**

        # program from 0000 to FFFF  
(hexadecimal)

*default*|0|0|0|0|#

**Note:** *The identifier 0000 blocks the monitoring feature.*

## 6.2 CODES

### FS 57, 58, 60, 61 – EVENT CODES FOR ZONES 1, 2, 3, 4, 5

Function No.	Event description	Z1	Z2	Z3	Z4	Z5
FS 57	Zone alarm	1   1	1   2	1   3	1   4	1   5
FS 58	Zone restore	3   1	3   2	3   3	3   4	3   5
FS 60	Zone tamper	2   1	2   2	2   3	2   4	2   5
FS 61	Zone tamper restore	4   1	4   2	4   3	4   4	4   5
FS 80	Zone bypass	A   1	A   2	A   3	A   4	A   5
FS 81	Zone unbyypass	B   1	B   2	B   3	B   4	B   5

↖ default

### FS 59 – KEYPAD ALARM CODES

### FS 62 – KEYPAD TAMPER CODES

### FS 63 – TAMPER RESTORE CODE

PANIC alarm [#]	FIRE alarm [*]	HELP alarm [0]	DURESS alarm	3 WRONG CODES alarm	KEYPAD ABSENT CODE	KEYPAD ABSENT RESTORE CODE
1   6	1   7	1   8	1   9	1   A	1   B	3   6

**Note:** The „Keypad absent code” is sent after discovering lack of data exchange with the keypad (cut-off of data bus).

### FS 64, 65 – CODES OF ARMING, DISARMING AND CLEARING ALARM

	FS 64 Arming	FS 65 Disarming
User 1	5   1	6   1
User 2	5   2	6   2
User 3	5   3	6   3
User 4	5   4	6   4
User 5	5   5	6   5
MASTER user	5   6	6   6
Arming/Disarming zone	5   7	6   7
Quick arming [0][#]	5   8	
Clearing ALARM		6   8



**FS 66, 68 – SYSTEM EVENT CODES (part 1)**

Event description	FS 66 Event	FS 68 Event restore
AC power loss	7   1	8   1
Battery trouble	7   2	8   2
F3 fuse failure code (AUX and KPD outputs)	7   3	8   3
F2 fuse failure code (OUT1 output)	7   4	8   4
DTA bus trouble	7   5	8   5
Monitoring trouble	7   6	8   6
Clock loss	7   7	8   7

← default

**FS 67 – SYSTEM EVENT CODES (part 2)**

Event description	FS 67 Event
Control panel restart	7   8
DWNL call-back	7   9
Successful DWNL	7   A
DWNL fail	7   B
Monitoring test	7   C
Service mode start	7   D
Service mode end	7   E

**6.3 PARAMETERS****FS 69 – TEST AT – test transmission time**

|\_|\_|\_|\_|#  
format – HH:MM (hours:minutes)

default|9|9|9|9|# (disabled)

**FS 70 – TEST EVERY – test transmission period**

|\_|\_|\_|\_|\_|#  
format – MM:HH:DD (minutes:hours:days)

default|0|0|0|0|0|0|# (disabled)

**FS 71 – MONITORING SUSPENSION TIME**

|\_|\_|\_|# program from 0 to 255 minutes

default|0|3|0|#

**Notes:**

- Entering 0 value suspends monitoring until next event.
- Monitoring will be suspended after 8 unsuccessful attempts (busy condition, no signal of invitation or confirmation) to send the code to each of the monitoring station numbers.
- Selecting the **option 3 in FS 11** results in the control panel trying, after suspension period, to resend the codes not confirmed by the station. If this option is not selected, the control panel skips unconfirmed codes and proceeds to handling subsequent events.

**FS 72 – AC LOSS REPORTING DELAY**

|\_|\_|\_|# program from 0 do 255 minutes

default|0|1|0|#

**Note:** Entering the „0” value will block sending the „AC loss” event code, while during review of the current troubles, information on such a failure will be displayed on the LEDs.

**FS 73 – TELEPHONE LINE VOLTAGE LOSS REPORTING DELAY**

|\_|\_|#      program from 0 to 99 minutes      default|0|0|0|0|#

**Note:** Entering the 0 value will block reporting troubles of the „telephone line voltage loss” type.

**7. RESTARTS**

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Performance of the functions FS 74 and FS 75 will restore default values of the parameter settings. The special way these functions are executed protects the settings against an accidental deletion.

**FS 74 – CLEAR SETTINGS**

After calling the function, the LEDs 2 to 4 will light up. Press the [1] key to restore the default settings. The function also resets the names of users and zones.

**FS 75 – CLEAR CODES**

After calling the function, the LEDs 1, 3, 4 and 5 will light up. Press the [1] key to restore the default settings.

**FS 76 – CLEAR MONITORING CODES AND IDENTIFIER**

All the codes are pre-programmed according to the default settings (see: FS 56 to FS 68). The purpose of the function is to quicken the process of programming the selected monitoring codes. An earlier activation of the function makes unnecessary the individual deletion of the codes not sent to the station. The deletion consists in programming the zero code.

After calling the function, the LEDs 1, 2, 4 and 5 will light up. Press the [1] key to reset all the control panel monitoring codes and identifier.

**FS 77 – LOCAL DOWNLOADING** (local communication)

**Note:** All the changes introduced in the process of communication become valid as soon as they are uploaded to the panel, except for some parameters (zone sensitivity, zone types, telephone messaging options), which become valid after the communication is ended or a full minute is counted by the panel (after the end of uploading).

**FS 78 – RS-232 DOWNLOADING**

Calling the function starts data exchange between the panel and the computer via the RS-232 port.

**Note:**

- To connect the ports of the control panel and the computer, use the special cable of SATEL make, which is designed for conversion of the TTL (0V, +5V) standard signal into the RS-232 (-12V, +12V) standard. The cable enables two-way data transmission.
- The function may start no communication (3 long sounds), if the control panel is currently dialing. If the problem exist for a longer time it is possible to deactivate monitoring for the period of programming (FS 10 option 1).

## History Of Manual Updates

The changes described refer to the manual drawn up for the CA-5 v1.07 control panel.

DATE	VERSION	DESCRIPTION OF CHANGES
September 2004	1.08	<p>Service functions menu has been supplemented (p.3).            FS 11 name has been changed (p. 7).            Another set of system options has been added - FS 79 (p. 7).            Two new output functions have been added - 9 and 10 (p. 9).            A new zone function has been added (Function 16), and Function 1 zone operation has been changed to allow programming of the active time (p. 11)            Service functions FS 82 and FS 83 have been added (p. 11) – alarm output delay.            The list of zone event codes has been extended – FS 80 and FS 81 (p. 14).</p>
December 2004	1.09	<p>The service function menu has been supplemented by the new FS 84 function (p.3), including description of the same (p. 12).            Meaning of some options in the FS 9, FS 79 service functions (p. 6) has been changed and their description supplemented.            A new system option has been introduced (FS 79 option 2, p. 7).            Remarks on functioning of the Interior Delayed zone (p. 9) and on reset of the Duress Alarm output (p. 11) have been added.            Remarks have been added and descriptions of some zone options changed (p.11).            Code names have been changed in the FS 62, FS 63 functions (p. 14).            Option names as displayed on LCD keypad have been added in function descriptions.</p>

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