

# **History of the Manual Updates.**

The updates below refer to the manual for the control panel with program version 4.1.

Date	Program version	Description of updates
01-2003	4.3	• A new type of zone reaction added in the FS-26 function: "19 - perimeter".
		• New formats of transmission to the monitoring station added in the functions FS-45, FS-46:
		<ul> <li>0E - Contact ID selected codes</li> <li>0F - Contact ID all codes</li> </ul>
		• Event no. 6 (disarming & clearing alarm) removed from the functions FS-69 to FS-80 – the code is recommended not to be programmed or assigned to the stations.
		A second set of options added in the FS-131 function (1-4).
		A new function added: FS-133.
07-2003	4.7	• A new type of zone reaction added in the FS-26 function: "20 – enter/exit-final".
		• New format of transmission to the monitoring station added in the functions FS-45, FS-46 "TELIM".
		• On page 11 in the table new zone event codes added (FS 134-135). In FS 67-68 functions bit 8 is used for assignment new events to monitoring stations.
		New functions added: FS-125, FS-134-137.
		• In second set of option in the FS-131 function added 3 new options (5-7).

CA-10	plus SATEL - Programming List									
ALAF	RM SYSTEM			A	ADDRESS		•••••			
USER				І	REMARKS	•••••	•••••	•••••		
TELE	PHONE NUMBER									
FS 1 -	SERVICE CODE		<u>  _ </u>	#					dej	$Fault =  1 2 3 4 5 _{-}$
FS 2 -	CONTROL PANEL ID	#	#	#						2 1  4 3  6 5
FS 3 -	COMPUTER ID	#	#							6 5  8 7  0 9
FS 4 -	COMPUTER TEL. NO.	#	#	#	<u> </u>  #  _	#	_[_	#	#	#
	maximum of 16 cl	aracte	ers 0–F, A=end of the	e number, B=p	ulse dial, C=tone d					# A A # A A # A A # pause, $F$ =long pause
FS 5 -	SYSTEM OPTIONS								(by def	ault all options off)
	First options set (LED 12 blinking)		Second opt	tions set (L	ED 11 blinking)		T	hird op	tions set (LED	s 11 & 12 blinking)
1	TELEPHONE MESSAGING	1	DOWNLOA ALLOWED		M OUTSIDE		1		ABLE SERVICE N TITION ARMED	MODE WHEN ANY
2	MONITORING	2	TONE DIAL				2	DIS/ ARM	ABLE DOWNLOA	ADING WHEN
3	CALL ANSWERING	3	DOUBLE M	ESSAGE FF	ROM SYNTHESI	ZER	3		RM IF ANY ZON EN EXIT TIME IS	NE IS VIOLATED S OVER
4	PRINTING	4	GROUND S'	TART			4	FIRE		IDUAL IN EACH
5	PRINTER CR + LF MODE	5	NO DIAL TO	ONE TEST			5	KEY	PAD ALARMS IN H PARTITION	NDIVIDUAL IN
6	PRINTER RS-232 2400Bps (OFF-1200Bps)	6	NO ANSWE	ER TEST			6	SUSI		ING UNTIL NEW MIN.) *
7	TRANSMISSION WITH PARITY	7			ON ON OUTPUT MESSAGING)	5, 6 *	7	OUT	5,6 TRANSMISS	ION TYPE: <u>UA</u> **
8	PARITY: ON-EVEN / OFF-ODD	8	DOUBLE CA	ALL TO AN	SWER		8	OUT	5,6 TRANSMISS	ION TYPE: <u>LV&amp;BY</u> **
* Monito	firm by pressing #. oring is suspended in case of problems in communicat ons 7 and 8 in third set are only relevant if option 7 in OUT) format.	ion wit						Confirm by pare off), ou		in NOKTON
FS 6 -	GLOBAL SYSTEM TIMES	_ _	_ #	<b></b>  #	-	#		C	default:  3 0 # 6	5 0 # 6 0 # sec.
(progr	ram: 00 do 99 sec.) entry d	elay	default	exit delay	default alar	m time				

(program: 00 to 07)

FS 7 - COUNTING ZONES COUNTERS

Counter 1 2 3

|0|0|#|0|0|#|0|0|#

FS 8÷11 and 12÷15 PARTITION ZONES, ZONES DISPLAYED IN LED KEYPADS

		Zon	es to	parti	tions a	essign	nmen	t	7	Zones	s to L	E <b>D</b> k	eypad	s assi	gnme	nt
		S 8 rt. 1		S 9 rt. 2		S 10 rt. 3		S 11 rt. 4		12 d. 1		S 13 od. 2		S 14 pd. 3		S 15 pd. 4
ZONE 1	1	Х	1		1		1		1	Х	1		1		1	
ZONE 2	2	Х	2		2		2		2	х	2		2		2	
ZONE 3	3	Х	3		3		3		3	Х	3		3		3	
ZONE 4	4	Х	4		4		4		4	X	4		4		4	
ZONE 5	5	Х	5		5		5		5	X	5		5		5	
ZONE 6	6	Х	6		6		6		6	X	6		6		6	
ZONE 7	7	Х	7		7		7		7	Х	7		7		7	
ZONE 8	8	Х	8		8		8		8	X	8		8		8	
Confirm by pressing #													1 =			
ZONE 9	1	Х	1		1		1		1	Х	1		1		1	
ZONE 10	2	Х	2		2		2		2	Х	2		2		2	
ZONE 11	3		3		3		3		3		3		3		3	
ZONE 12	4		4		4		4		4		4		4		4	
ZONE 13	5		5		5		5		5		5		5		5	
ZONE 14	6		6		6		6		6		6		6		6	
ZONE 15	7		7		7		7		7		7		7		7	
ZONE 16	8		8		8		8		8		8		8		8	

FS 16÷19 & 127÷130 AUTO-BYPASSED ZONES.

		Auto-bypa (silent or pa	assed zones		(1	Auto-bypa no exit from	ssed zones the facility)	
,,	FS 16 Part. 1	FS 17 Part. 2	FS 18 Part. 3	FS 19 Part. 4	FS 127 Part. 1	FS 128 Part. 2	FS 129	FS 130 Part. 4
ZONE 1	1	1	1	1	1	1	1	1
ZONE 2	2	2	2	2	2	2	2	2
ZONE 3	3	3	3	3	3	3	3	3
ZONE 4	4	4	4	4	4	4	4	4
ZONE 5	5	5	5	5	5	5	5	5
ZONE 6	6	6	6	6	6	6	6	6
ZONE 7	7	7	7	7	7	7	7	7
ZONE 8	8	8	8	8	8	8	8	8
Confirm by pressing #								
ZONE 9	1	1	1	1	1	1	1	1
ZONE 10	2	2	2	2	2	2	2	2
ZONE 11	3	3	3	3	3	3	3	3
ZONE 12	4	4	4	4	4	4	4	4
ZONE 13	5	5	5	5	5	5	5	5
ZONE 14	6	6	6	6	6	6	6	6
ZONE 15	7	7	7	7	7	7	7	7
ZONE 16	8	8	8	8	8	8	8	8

		FS 20		FS 21		]	FS 22		FS 23
To turn on an option set the corresponding control on.	Pa	rtition 1	Pa	rtition 2		Pai	rtition 3	Pa	rtition 4
GO TO function disabled	1	GOTO 2	1	GOTO 1		1	GOTO 1	1	GOTO 1
GO TO function disabled	2	GОТО 3	2	GOTO 3		2	GOTO 2	2	GOTO 2
GO TO function disabled	3	GOTO 4	3	GOTO 4		3	GOTO 4	3	GOTO 3
QUICK ARM function disabled	4		4			4		4	
3 wrong codes alarm disabled	5		5			5		5	
PANIC keypad alarm disabled	6		6			6		6	
AUX. keypad alarm disabled	7		7			7		7	
FIRE keypad alarm disabled	8		8			8		8	
Confirm by pressing #	•				_				
Keypad alarm on until cleared with a code	1		1			1		1	
Keypad alarm on for the set alarm time	2	×	2	х		2	х	2	х
DAY/NIGHT zone violation signal	3	х	3	х		3	Х	3	х
CHIME zone violation signal	4		4			4		4	
Failure audible signal	5		5			5		5	
Keypad EXIT DELAY signal	6	х	6	х		6	х	6	х
Keypad ENTRY DELAY signal	7	×	7	X		7	<i>x</i>	7	×
Key pressed signal	8	X	8	x		8	x	8	x

Confirm by pressing #

X-default settings

#### FS 24 - ZONE SENSITIVITY

ZONE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Value																
Default	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

Note: Controls 1–8 will not display the new parameter value. Program values 1 to 255. Confirm each number by pressing #.

Default value for all zones 30 (30\*16 ms = 0.480 sec.).

## **FS 25 - ZONE CONNECTION** (*program:* 00 - 05)

00no detector03EOL detector01NC detector042EOL/NC detector

O2 NO detector 05 2EOL/NO detector

Zone		1	2	2	3	3		1		5	(	5	,	7	8	•	9	)	1	0	1		1	2	1	3	1	4	1	5	1	0
Type						ı				1		1		1		1								1								
Default	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0

Note: The FS107 restart function sets 03 for existing zones and 00 for not existing ones; the default values are given for the system with one keypad connected to CLK1.

11 - 24H fire

## FS 26 - ZONE REACTION TYPE (program: 00 - 20)

00 - exit/entry 01 - delay

02 - interior delay
03 - instant
12 - arming
13 - silent arming

03 - instant 04 - day/night

05 - instant counting L.1
06 - instant counting L.2
15 - no alarm action
16 - arming/disarming

07 - instant counting L.2

17 - delay with entry delay warning

07 - Instant counting L.3
08 - 24H audible
18 - automatic bypass arming

09 - 24H audible
19 - perimeter
10 - 24H silent
20 - exit/entry-final

Zone	1	1	2	2	3	3	4	1	5	5	(	6		7	8	3	ģ	)	1	0	1		1	2	1	.3	1		1		1	6
Value				1				1				1				1				1		1						1				
Default	0	0	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3

## **FS 27 - PROGRAMMING ZONE OPTIONS**

							zon	e numbe	r display	ed on Ll	EDs 9 ÷	12					
Option	Zones:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	PRIORITY (must not be violated on arming)	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	Х
2	CHIME (violation generates CHIME signal)																
3	AUTO-RESET 1 (auto-bypassed after first alarm)																
4	AUTO-RESET 3 (auto-bypassed after third alarm)																
5	ABORT DELAY (no violation reporting during ENTRY DELAY)																
6	POWER UP DELAY (bypass for 120s after power on)																
7	report RESTORE after alarm ends																
8	report RESTORE after DISARM																

Options are programmed by lighting the corresponding controls (activating options) in turn for 16 zones. Confirm the option for each zone by pressing #. x - Options enabled by default; the other options are disabled.

## FS 28 - INDIVIDUAL ZONE ENTRY DELAY

ZONE:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Entry Delay		ı		ı	ı		ı	ı	ı		ı	ı	ı			

Note: program 00 to 99 seconds, confirm by pressing #.

By default, the individual entry delay times are set at 0.

## FS 29 - MAXIMUM ZONE VIOLATION TIME

ZONE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Value				1 1		I I	I I				11		1 1		1 1	

Note: Controls 1–8 will not display the new parameter value. Program values from 0 to 255 sec.. Confirm each number by pressing #. By default, the maximum violation times are set at 0 for all zones (violation time control off).

#### FS 30 - MAXIMUM ZONE NO VIOLATION TIME

ZONE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Value																

Note: Controls 1–8 will not display the new parameter value. Program values from 0 to 255 sec.. Confirm each number by pressing #. By default, the maximum violation times are set at 0 for all zones (no violation time control off).

## FS 31 ÷ 42 - OUTPUTS PROGRAMMING

#### **OUTPUT TYPES:**

00	not used	05	keypad FIRE alarm signaling
01	BURGLARY signaling	06	keypad PANIC alarm signaling
02	BURGLARY/FIRE signaling	07	keypad AUX. alarm signaling
03	FIRE signaling	08	sygnalizacja alarmu sabotażowe

FIRE signaling 08 sygnalizacja alarmu sabotażowego klawiatury 09 bay/NIGHT & COUNTING violation signal.

			FS 31 OUT 1	FS 33 OUT 2	FS 35 OUT 3	FS 37 OUT 4	FS 39 OUT 5	FS 41 OUT 6
TY	P WYJŚCIA							
Con	firm by pressing #	default:	01	0 1	2 7	00	22	12
CZ	ZAS DZIAŁANIA WYJŚCIA							
Con	firm by pressing #	default:	00	00	00	00	00	00
ption)	Output assigned to partition 1	1						
activate option)	Output assigned to partition 2	2						
tor to ac	Output assigned to partition 3	3						
on light indicator to	Output assigned to partition 4	4						
on ligh	Pulsed output	5						
S (turn	<b>Cut-off time in minutes</b>	6						
OPTIONS	LATCH type output	7		×				
OP	Polarity +12V	8	Х	Х	Х	Х	X	х

10	<b>DURESS</b>	signaling
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- 11 CHIME signaling
- 12 switch MONO ([CODE][\*][7])
- 3 switch BI ([CODE][\*][8])
- 14 arm status (OR)
- 15 silent arm status
- 16 EXIT DELAY warning
- 17 ENTRY DELAY warning
- 18 telephone usage status
- 19 GROUND START pulse
- 20 monitoring acknowledgement
- 21 zone BYPASS status
- 22 READY status
- 23 zone violation status
- 24 telephone line fault
- 25 AC loss
- 26 battery failure
- 27 power supply
- 28 fire detectors power supply
- 29 power supply with RESET function
- 30 TIMER controlled
- 31 audible arm status
- 32 full arm status (AND)
- 33 arm/disarm beep
- 34 keypad alarm status
- 35 power supply in armed mode
- 36/37 state signals (East European standard)
- 38 zone failure status
- 39 no guard code in partition
- 40 service mode status
- 41 low battery indicator

FS 32÷42 - ZONES CONTROLLING OUTPUTS

		Lists of zones controlling outputs										
_	FS 32 OUT 1		S 34 UT 2		FS 36 OUT 3		FS 38 OUT 4		FS 40 OUT 5			S 42 UT 6
ZONE 1	1	1		1		1			1		1	
ZONE 2	2	2		2		2			2		2	
ZONE 3	3	3		3		3			3		3	
ZONE 4	4	4		4		4			4		4	
ZONE 5	5	5		5		5			5		5	
ZONE 6	6	6		6		6			5		6	
ZONE 7	7	7		7		7			7		7	
ZONE 8	8	8		8		8			3		8	
Confirm by pressing #												
ZONE 9	1	1		1		1			1		1	
ZONE 10	2	2		2		2			2		2	
ZONE 11	3	3		3		3			3		3	
ZONE 12	4	4		4		4			4		4	
ZONE 13	5	5		5		5			5		5	
ZONE 14	6	6		6		6			5		6	
ZONE 15	7	7		7		7		,	7		7	
ZONE 16	8	8		8		8			3		8	

*Note:* 

The list of zones may be empty (default setting). If this is the case, the output will respond to violation of any zone, the function of which corresponds to the output type (for example, the output which signals burglary alarms will not respond to a violation of the 24H FIRE zone). Similarly, it is not necessary to enter a partition number in output options, because in this case the output responds to all zones, irrespective of their partition assignments.

If zones and partitions are indicated, than the output will be responding only to the indicated zones, and alarm clearing will be possible in the indicated partitions only.

#### FS 43 - MONITORING STATION 1 TELEPHONE NUMBER |A|A|#|A|A|#|A|A|#|A|A|#|A|A|#|A|A|#|A|A|#|A|A|#maximum 16 characters 0-F; A=end of number, B=pulse dial, C=tone dial, D=wait for continuous tone, E=short pause, F=long pause FS 44 - MONITORING STATION 2 TELEPHONE NUMBER |A|A|#|A|A|#|A|A|#|A|A|#|A|A|#|A|A|#|A|A|#|A|A|#- Silent Knight, Ademco slow - Sescoa, Franklin, DCI, Vertex, extended FS 45 - STATION 1 FORMAT - Sescoa, Franklin, DCI, Vertex - Silent Knight fast, extended - Silent Knight fast - Radionics 1400Hz, extended - Radionics 1400Hz - Radionics 2300Hz, extended - Radionics 2300Hz 0DTelim with entry tone FS 46 - STATION 2 FORMAT - Radionics with parity 1400Hz - Telim without entry tone - Radionics with parity 2300Hz 0E Contact ID selected codes 07 - Ademco Express Contact ID all codes - Silent Knight, Ademco slow, extended

**FS 47 - MONITORING OPTIONS** (turn on light indicator to activate the option).

1	report to STATION 1 only, with no event sorting
2	report to STATION 2 only, with no event sorting
3	sort events by identifiers during transmission to STATION 1
4	sort events by identifiers during transmission to STATION 2
5	extend single character partition event codes by adding the user number
6	extend single character zone event codes by adding the zone number
7	the panel skips sending the event code if STATION 1 fails to acknowledge receiving the information after 16 attempts
8	the panel skips sending the event code if STATION 2 fails to acknowledge receiving the information after 16 attempts

## *NOTE:*

If both controls 1 and 2 are off - the panel will report to either station 1 or 2 (whichever is reached first), with no event sorting.

If both controls 1 and 2 are on - the panel will report to both station 1 and 2, with event sorting.

FS 48 - MONITORING STATION 1 ZONE EVENTS IDENTIFIER		.	#	 #
FS 49 - MONITORING STATION 1 PARTITION 1 EVENTS IDENTIFIER		<u> </u>	#	 #
FS 50 - MONITORING STATION 1 PARTITION 2 EVENTS IDENTIFIER		<u> </u>	#	 #
FS 51 - MONITORING STATION 1 PARTITION 3 EVENTS IDENTIFIER		<u> </u>  ;	#	 #
FS 52 - MONITORING STATION 1 PARTITION 4 EVENTS IDENTIFIER		<u> </u>  ;	#	 #
FS 53 - MONITORING STATION 1 SYSTEM EVENTS IDENTIFIER		<u> </u>	#	 #
FS 54 - MONITORING STATION 2 ZONE EVENTS IDENTIFIER		<u> </u>  -	#	 #
FS 55 - MONITORING STATION 2 PARTITION 1 EVENTS IDENTIFIER		_	#	 #
FS 56 - MONITORING STATION 2 PARTITION 2 EVENTS IDENTIFIER		<u> </u>  -	#	 #
FS 57 - MONITORING STATION 2 PARTITION 3 EVENTS IDENTIFIER	<u></u>	<u> </u>  -	#	 #
FS 58 - MONITORING STATION 2 PARTITION 4 EVENTS IDENTIFIER		<u> </u>  -	#	 #
FS 59 - MONITORING STATION 2 SYSTEM EVENTS IDENTIFIER		<u> </u>  ;	#	#

Notes: - Use characters  $1 \div 9$  and  $A \div F$  when programming the identifiers. In case of three-character identifiers, program the fourth character as 0 (zeros are not transmitted)

- If the monitoring station requires an identifier containing zero, program "A" instead of "0" (e.g. enter 12A3 instead of 1203).

## FS 60÷66 - ZONE REPORT CODES.

Zones	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FS 60 - ALARM CODES		I			ı	I										
FS 61 - ZONE TAMPER CODES	ı	Ī	I	ı	ı	Ī		ı	ı		ı	ı	ı	ı	ı	Ī
FS 62 - ZONE TROUBLE CODES		ı		ı		ı						ı	ı			
FS 63 - ZONE VIOLATION CODES		ı				ı						ı				
FS 64 - ZONE RESTORE CODES	ı	I		I	ı	I			I		ı	ı	ı	ı	I	
FS 65 - TAMPER RESTORE CODES	ı		ı		ı		I				ı	ı	ı	ı		
FS 66 - TROUBLE RESTORE CODES	ı		ı		ı		I				ı	ı		ı		
FS 134 – ZONE BYPASS CODES	ı				ı						ı	ı	ı	ı		
FS 135 – ZONE UNBYPASS CODES	ı	I		I	ı	I			I		ı	ı	ı	ı	I	

Confirm each code by pressing #. Zone numbers are indicated by LEDs 9÷12.

By default, all codes are equal to 00.

FS 67, 68 - ZONE EVENTS ASSIGNMENT TO MONITORING STATIONS.

	SEN	67 D TO TON 1	SEN	68 D TO TON 2
ZONE ALARM CODES	1		1	
ZONE TAMPER ALARM CODES	2		2	
ZONE TROUBLE CODES	3		3	
ZONE VIOLATION CODES	4		4	
ZONE RESTORE CODES	5		5	
TAMPER RESTORE CODES	6		6	
TROUBLE RESTORE CODES	7		7	
ZONE BYPASS AND UNBYPASS CODES	8		8	

Confirm by pressing #

Note:

No events with 00 code are reported. Single-character codes are obtained by programming one of the characters as 0.

The mode of reporting to both stations with event sorting requires that event assignment to central stations be programmed. Events with no assignment will not be reported even if their report codes have been programmed.

## FS 69÷72 - PARTITION EVENT CODES

		EVENT CODES:	FS-69 PARTITION 1	FS-70 PARTITION 2	FS-71 PARTITION 3	FS-72 PARTITION 4
	1	ARMING *				
	2	SILENT ARMING *		,		
	3	ARMING WITH BYPASS *		1		
	4	CLEARING ALARM *	1	1		
9÷12	5	DISARMING *		ı		
Numer kodu wskazywany na diodach LED	6	do not program				
iodaci	7	SYSTEM CLOCK PROGRAMMING *		1		
y na d	8	ZONE BYPASS *		1		
zywan	9	KEYPAD FIRE ALARM		1		
wska	10	KEYPAD PANIC ALARM		1		
r kodu	11	KEYPAD AUX. ALARM		1		
Nume	12	KEYPAD TAMPER ALARM		1		
	13	3 INCORRECT CODES ALARM		1		
	14	DISARMING WITH A DURESS CODE				
	15	INTERIOR PARTITION ARMING				
	16	INTERIOR PARTITION DISARMING				

Note: Codes marked with \* can be extended by the panel with the user number (see FS47). For example, if the ARMING code is programmed as 10, the panel will report code 11 on arming the partition by User 1, code 12 on arming by User 2, etc.

FS 73÷80 – PARTITION EVENTS ASSIGNMENT TO MONITORING STATIONS.

		EVENTS REPORTED TO STATION 1			EVENTS REPORTED STATION 2			D TO	
		FS-73 PART.	FS-74 PART. 2	FS-75 PART.	FS-76 PART. 4	FS-77 PART.	FS-78 PART. 2	FS-79 PART.	FS-80 PART. 4
ARMING	1								
SILENT ARMING	2								
ARMING WITH BYPASS	3								
CLEARING ALARM	4								
DISARMING	5								
do not program	6								
SYSTEM CLOCK PROGRAMMING	7								
ZONE BYPASS	8								
Confirm by pressing #									
KEYPAD FIRE ALARM	1								
KEYPAD PANIC ALARM	2								
KEYPAD AUX. ALARM	3								
KEYPAD TAMPER ALARM	4								
3 INCORRECT CODES ALARM	5								
DISARMING WITH DURESS CODE	6								
INTERIOR PARTITION ARMING	7								
INTERIOR PARTITION DISARMING	8								

## FS 81÷84 – SYSTEM EVENTS CODES AND ASSIGNMENT TO MONITORING STATIONS.

				ENTS NMENT
	SYSTEM EVENTS – SET I	FS 81 EVENT CODES	FS 83 SEND TO STATION 1	FS 84 SEND TO STATION 2
1	AC LOSS			
2	AC RESTORE			
3	LOW BATTERY	i		
4	BATTERY RESTORE			
5	OUTPUT OUT 1 TROUBLE	I		
6	OUTPUT OUT 1 RESTORE			
7	OUTPUT OUT 2 TROUBLE			
8	OUTPUT OUT 2 RESTORE	i		
9	OUTPUT OUT 3 TROUBLE	i		
10	OUTPUT OUT 3 RESTORE			
11	PRINTER TROUBLE	i		
12	PRINTER RESTORE	i		
13	ENTER SERVICE MODE			
14	EXIT SERVICE MODE	<u> </u>		
15	DOWNLOADING - START			
16	DOWNLOADING - END			

	SYSTEM EVENTS – SET II	FS EVI COI	-
1	OUTPUT OUT 4 TROUBLE		
2	OUTPUT OUT 4 RESTORE		
3	TRANSMISSION PROBLEMS		
4	EVENT LOG OVERFLOW		
5	LOSS OF TIME		
6	RAM MEMORY FAULT		
7	SYSTEM RESTART		
8	TEST TRANSMISSION		
9	KEYPAD POWER SUPPLY TROUBLE		
10	KEYPAD POWER SUPPLY RESTORE		

NOTE: When monitoring with events sorting is enabled, the system events, set II, are always sent to both stations.

FS 85 – TIME OF TEST TRANSMIS Program from 00:00 to 23:59; the value 99									#	_	#				/9/9	9 # 9 9 #
FS 86 - AC LOSS REPORT DELAY	(01-99 n	ninutes)								_	#					/1/0/#
FS 87 - TELEPHONE NUMBER 1		#	_[	#	_ _	#	_	[#]	_ _	_ #		_ #		_ #	_	_ #
FS 88 - TELEPHONE NUMBER 2		#	_ _	[#]	_ _	_ #	_ _	_ # _	_ _	_ #		_ #		_ #	_ _	_ #
FS 89 - TELEPHONE NUMBER 3		#	_ _	[#	_ _	[#	_ _	[#	_	_ #	_ _	_ #		_ #	_ _	_ #
FS 90 - TELEPHONE NUMBER 4		#	_ _	[#	_ _	#	_ _	#	_	_ #	_ _	_ #	_ _	_ #	_ _	_ #
FS 91 - TELEPHONE NUMBER 5		#	_ _	#	_ _	#	_ _	#	_ _	_ #	_ _	_ #		#	_	_ #
FS 92 - TELEPHONE NUMBER 6		#	_ _	#	_ _	#	[	[#]	_ _	_ #		_ #		_ #		_ #
FS 93 - TELEPHONE NUMBER 7		#	_ _	[#]	_ _	[#]	_ _	_[#]	_	_ #	_ _	_ #	_ _	_ #	_ _	_ #
FS 94 - TELEPHONE NUMBER 8		#	_ _	#		#	_ _	_ #		_ #		#		#	_ _	_ #

max.16 characters 0 to F,

 $A = end\ of\ number,$ 

 $B=pulse\ dial,$ 

 $C=tone\ dial,$ 

D=wait for the continuous tone,

E= $short\ pause$ ,

F=long pause.

 $by\ default,\ all\ telephone\ numbers\ are\ deleted = |A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|\#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A|#|A/A$ 

NOTE: Do not put the special characters B÷F before the telephone number, as they are used for introducing changes during dialing. The basic mode of dialing and the telephone line signal test are enabled in FS 5.

## FS 95 - PARTITIONS AND MESSAGES ASSIGNMENT TO TELEPHONE NUMBERS

				_		LEDs	9÷12			
		TELEPHONE NUMBER:	1	2	3	4	5	6	7	8
	1	Partition 1								
	2	Partition 2								
	3	Partition 3								
<i>8÷1</i>	4	Partition 4								
LEDs	5	Message no 1 (PAGER)								
	6	Message no 2 (PAGER)								
	7	Message no 3 (PAGER)								
	8	Message no 4 (PAGER)		_						
					co	nfirm v	with#	key		

## *NOTE:*

- a LED comes on when partition or message has been selected;
- if no pager message assignment is made, the message will be sent by a voice synthesizer.

## FS 96 - PAGER MESSAGE 1 (also FS 119)

_									<u> </u>	 	 	 	 	 	<u></u>			
_									.]	 	 	 	 	 				
_									.]	 	 	 	 	 			<u> </u>	
FS 97 -	PAGE	TP M	FCC	A C F	2 (a)	leo <b>F</b> 9	C 120	<b>)</b>										
	1 /101	214 141	LOOL	AGL	2 (a)	180 1	3 120	"										
					`				<u> </u>		 	 	 	 	<u> </u>			
	_	<u> </u>			<u> </u>		<u></u>							•		•		

FS 98 - PAGER MESSAGE 3 (also FS 121)								
	_	<u>  _ _ </u>						
FS 99 - PAGER MESSAG	FS 99 - PAGER MESSAGE 4 (also FS 122)							
	_							
FS 100 - PROGRAMMING NUMBER OF ATTEMPTS AND MESSAGE QUEUES  number of attempts (0-9) 7								
FS 101 - RINGS BEFORE	ANSWER (00 to 09)	#  O  O #						
FS 102 - TIMER 1	SWITCH ON at (hours/minutes)	#  # Default OFF:  9 9  9 9						
	SWITCH OFF at (hours/minutes)	#  #						
FS 103 - TIMER 2	SWITCH ON at (hours/minutes)	#  #						
	SWITCH OFF at (hours/minutes)							
FS 104 - TIMER 3	SWITCH ON at (hours/minutes)	#  #						
	SWITCH OFF at (hours/minutes)	#  #						
FS 105 - TIMER 4	SWITCH ON at (hours/minutes)	#  #						
	SWITCH OFF at (hours/minutes)	#  #						

FS 106 - TIMER FUNCTIONS					
TIMER 1					
TIMER 2					
Confirm by pressing #					
TIMER 3					
TIMER 4					

## TIMER FUNCTIONS:

0 - timer not used 8 - arms/disarms partition 1 1 - controls output OUT 1 9 - arms/disarms partition 2 A - arms/disarms partition 3 2 - controls output OUT 2 3 - controls output OUT 3 B - arms/disarms partition 4

4 - controls output OUT 4

5 - controls output OUT 5

6 - controls output OUT 6 *NOTE:* for partition control function (7) timer 1 controls partition 1, timer 2 - partition 2 etc.

7 – partition control

Confirm by pressing #

FS 107 - RESTORING DEFAULT SETTINGS

FS 108 - CLEARING EVENT LOG

FS 109 - PROGRAMMING DEFAULT IDENTIFICATION CODES

FS 110 - RESTORING DEFAULT CODES

#### FS 111 - PROGRAMMING KEYPAD ADDRESSES

Keypads 1 & 2 (LED 12	blii	nki	ng)		
		1		A	
Address of knymed 1		2		В	
Address of keypad 1		3		C	sus
	No.	4		D	ium
	LED No	5		A	keypad jumpers
Address of kowned 2	`	6		В	keyl
Address of keypad 2		7		C	
		8		D	

	Keypads 3 & 4 (LED 11	bli	nki	ng)		
			1		A	
	Address of keypad 3		2		В	
			3		C	sers
		No.	4		D	iumi
		LED No.	5		A	keypad jumpers
	Address of keyned 1		6		В	keyı
	Address of keypad 4		7		C	
			8		D	

NOTE: The illuminated LEDs indicate position of keypad jumpers.

Confirm by pressing #

FS 123 – COUNTING ZONES COUNT TIMES

1

COUNTER

**COUNTING TIME** 

Default:

|3|0|#|3|0|#|3|0|#

FS 112 - START OF PR	OGRAMMING THROUGH RS-232		
FS 113 - START OF PR	RINTING EVENT LOG		
FS 114 - START OF PR	RINTING ALARM LOG		
FS 115 - START OF PR	RINTING TROUBLE LOG		
FS 116 - START OF PR	RINTING PARTITIONS EVENT LOG		
FS 117 - TELEPHONE	LINE LOSS DELAY. (00 to 99 minutes)	<u> </u>  #	0 0 #
FS 118 - PAGER MESS	SAGE RECEIVER PARAMETERS		
program:	3 B # $ 4 2 $ # $ 0 B $ # $ 0 F $ # $ 1 0 $ # $ 8 0 $ # for POLPAGER system	em	
	2 B # $ 2 E $ # $ 0 E $ # $ 1 4 $ # $ 3 0 $ # $ 3 A $ # for TELEPAGE system	m	
	3 7 # $ 3 D $ # $ 0 7 $ # $ 0 B $ # $ B 6 $ # $ C 8 $ # for EASY CALL system	em	
	$ 1 6 \# 1 A \# 1 3 \# 1 7 \# 0 B \# 0 F \# \ \ {\rm for\ METRO\text{-}BIP\ system}$	em	
FS 119÷122 - PROGRA	MMING MESSAGES TO PAGER (also FS 96 to FS 99)		

NOTE: Program times: 0 to 255 seconds

3

2

## FS 124 - KEYPAD ADDRESSES AUTO-DETECT

## FS 125 – OUTPUTS TESTING

## FS 126 - PARTITION CONTROL MONITORING CODES

Partition 1 input/output (entering Partition 1 control code)	
Partition 2 input/output (entering Partition 2 control code)	
Partition 3 input/output (entering Partition 3 control code)	
Partition 4 input/output (entering Partition 4 control code)	
No control code - Partition 1	
No control code - Partition 2	
No control code - Partition 3	
No control code - Partition 4	

FS 127÷130 - ZONES AUTO-BYPASSED ON NO EXIT FROM THE FACILITY (see page 3)

|0|0|#

#### FS 131 - PROGRAMMING ADDITIONAL OPTIONS

1	Service mode disabled
2	DTMF module control allowed (MST-1)
3	Pulse dialing ratio 1:1,5
4	Global access codes
5	Partition 1 timer priority
6	Partition 2 timer priority
7	Partition 3 timer priority
8	Partition 4 timer priority

SECOND SE	ET (LED	11	blinking)

1	No arming during battery failure
2	Automatic counters reset at midnight "AUTORESET 1/3"
3	Service Mode in one partition only
4	Service message after tamper alarm
5	Trouble clear
6	Audible tamper alarm only in arming
7	Alarms number limitation down to 3 from a zone
8	do not program

Confirm by pressing #.

## FS 132 - PROGRAMMING OF CLOCK CORRECTION

01 do 19 - positive value 1s do 19s

00 - no correction

81 do 99 - negative value -1s do -19s

## FS 133 – TIME OF TEST TRANSMISSION TO THE MONITORING STATION

days hours minutes De

Default: |0|0|#|0|0|#|0|0|#

FS 134 – ZONE BYPASS CODES (see p. 11)

program:

FS 135 – ZONE UNBYPASS CODES (see p. 11)

FS-136 - PREFIX FOR EXTENSION OF IDENTIFIERS IN "TELIM" TRANSMISSION FORMAT

FS 137 – CODES USED IN "TELIM" TRANSMISSION FORMATS