Reporting Formats

The following formats can be used to report to Silent Knight receivers and are explained further in this section:

- SIA
- FSK & SK 4+2
- Radionics BFSK
- 16 Zone 4+2

SIA Format Printed Messages

The Security Industry Association (SIA) format can be used with a Silent Knight Model 9000 receiver. Each message is displayed in English followed by the zone number. Due to limited space on the 9000 display, some messages may be in abbreviated form.

Table 0-1 shows the information that is printed at the Silent Knight 9000 receiver when the SIA format is used for data transmission.

Table 0-1. SIA Messages

9000 Printer	Status of 5207
LOW BATTERY 0	System battery is low
BATTERY RESTORE 0	Battery voltage is back to normal
TROUBLE 0	AC power is off or low
AC RESTORE 0	AC power has come back on
PHONE LINE TROUBLE 1	Phone line 1 is not working
PHONE LINE TROUBLE 2	Phone line 2 is not working
PHONE LINE RESTORE 1	Phone line 1 is back to normal
PHONE LINE RESTORE 2	Phone line 2 is back to normal
EXPANSION TROUBLE 0	Dialer trouble
EXPANSION TROUBLE 1	Printer trouble
EXPANSION TROUBLE 7	EE memory trouble
EXPANSION TROUBLE 8	Xbus trouble
EXPANSION TROUBLE 17-23	Annunciator 1-7 trouble

Table 0-1 continued on next page.

Table 0-1 continued.

9000 Printer	Status of 5207
EXPANSION TROUBLE 32	Notification device #1 trouble
EXPANSION TROUBLE 33	Notification device #2 trouble
EXPANSION TROUBLE 34	Notification device #3 trouble
EXPANSION TROUBLE 35	Notification device #4 trouble
EXPANSION TROUBLE 36	Smoke power trouble
EXPANSION TROUBLE 37	Accessory power trouble
EXPANSION TROUBLE 38	Earth ground fault to circuit ground
EXPANSION TROUBLE 39	Earth ground fault to power
EXPANSION RESTORE 0	Dialer back to normal
EXPANSION RESTORE 1	Printer back to normal
EXPANSION RESTORE 7	EE memory back to normal
EXPANSION RESTORE 17-23	Annunciator 1-7 back to normal
EXPANSION RESTORE 32	Notification device #1 back to normal
EXPANSION RESTORE 33	Notification device #2 back to normal
EXPANSION RESTORE 34	Notification device #3 back to normal
EXPANSION RESTORE 35	Notification device #4 back to normal
EXPANSION RESTORE 36	Smoke power back to normal
EXPANSION RESTORE 37	Accessory power back to normal
EXPANSION RESTORE 38	Circuit ground earth fault removed
EXPANSION RESTORE 39	Power earth ground fault removed
OPEN RESET ALARM ID 0	Confirms that an alarm was reset by access code 0
OPEN RESET ALARM ID 1	Confirms that an alarm was reset by access code 1
OPEN RESET ALARM ID (2-99)	Confirms alarm reset by access code (2-99)
AUTO TEST 0	Automatic dialer test
MANUAL TEST 0	System tested by access code 0
MANUAL TEST 1	System tested by access code 1
MANUAL TEST (2-99)	System tested by access code (2-99)
DATA LOST 0	Previous event could not be reported and the information was lost

Table 0-1 continued on next page.

Table 0-1 continued.

9000 Printer	Status of 5207
"FIRE" is used as an example below. Possible zone types are FIRE, SPRINKLER, TAMPER, HEAT, and WATER.	
FIRE ALARM 1	Fire zone 1
FIRE ALARM (2-16)	Fire zone (2-16)
FIRE RESTORE 1	Fire zone 1 back to normal
FIRE RESTORE (2-16)	Fire zone (2-16) back to normal
FIRE SUPERVISORY 1	Fire zone 1 sprinkler supervisory condition
FIRE SUPERVISORY (2-16)	Fire zone (2-16) sprinkler supervisory condition
FIRE TROUBLE 1	Fire zone 1 loop trouble
FIRE TROUBLE (2-16)	Fire zone (2-16) loop trouble

FSK & SK 4+2 Format

You must use either the FSK or SK 4+2 format when reporting to the Silent Knight Model 8520 Receiver. Since the 8520 has only two digits for alarm codes, event type and zone numbers are combined into one message. The first digit of the code is the type of report, the second digit is the last number of the zone.

Example

Any two-digit code beginning with the digit 0 is a fire alarm.

Code 01 = Fire alarm in zone 1 or 11
Code 05 = Fire alarm in zone 5 or 15

If you selected the 16-zone report option at Step 14.5 of Step Programming (Section 2 of the 5207 programming manual), the above information does not apply to you. Zone numbers will report as 1 - 16. See Table 0-4 for more information.

The 4+2 format repeats after 10.

Table 0-2. FSK & SK 4+2 Codes/Zones

FSK & 4+2	Description
Fire Codes	
0Z	Alarm
2Z	Disable Restore (*Fire type zones report as 20*)
5Z	Disable Zone (*Fire type zones report as 50*)
6Z	Supervisory or Trouble

Table 0-2 continued on next page.

Table 0-2 continued.

FSK & 4+2	Description
7Z	Alarm Restore, Supervisory Restore, and Trouble Restore
Other Zones	
30	Dialer Test, Walk Test, Fire Drill
31	Phone Line 1 Trouble
32	Phone Line 2 Trouble
33	Expansion Trouble*
35	Phone Line 1 Restore
36	Phone Line 2 Restore
37	Expansion Restore
39	Data Lost
60	AC Lost
69	Low Battery
70	AC Restore
79	Battery Restore
9Y	Reset Alarm by Code #

**Note: Expansion refers to all the expansion troubles and restores listed in the SIA format (Section 0).*

Y = Last digit of the user ID number.

Z = last number of the zone.

Radionics BFSK Format

Model 5207 can transmit using the Radionics BFSK format with 1400 Hz or 2300 Hz acknowledge. The messages that will be printed are listed with the codes for FSK1 and SK 4+2.

Radionics BFSK format can only report eight zone codes. Zones 9 through 16 report as zones 1 through 8; zones 17 through 24 report as zones 1 through 8, and so on. Because of this limitation, programming the 5207 to report in both the Radionics BFSK and either the FSK or SK 4+2 formats is NOT advised. Use only if required by the receiver.

The Radionics BFSK format repeats after 8.

It is recommended that you use no more than 8 zones if your system is programmed to report in Radionics BFSK format. However, if you choose to use more than 8 zones with the Radionics BFSK format, it is a good idea to make every 8th zone (such as Fire, Tamper Sprinkler, etc.) the same zone type (such as Fire). If you assign the zones in this manner, the letter X in Table 0-3 will be a digit that represents every 8th zone number, as shown below:

Digit Reported (X)	1	2	3	4	5	6	7	8
Zone Numbers	1	2	3	4	5	6	7	8
	9	10	11	12	13	14	15	16
	17	18	19	...				

Table 0-3. Radionics BFSK 4+2 Format

BFSK	Description
Fire Codes	
0X	Alarm on zone X (see chart above for actual zone number)
E0	Shunt or disable restore Zone 0
F0	Trouble Zone 0 - zone shunted
FX	Zone Trouble X (see chart above for actual zone number)
EX	Alarm or trouble restore Zone X (see chart for actual zone #)
Other Zones	
E9	Test/restore Zone 9
FB	Trouble Zone B (Phone line fault)
FB	Trouble Zone B
FC	Trouble Zone C
EB	Restore Zone B (Phone line 1 restore)
EB	Restore Zone B (Phone line 2 trouble restore)
EC	Restore Zone C
E9	Test/Restore Zone 9
F0	Trouble Zone 0
F9	Trouble Zone 9 - low battery
E0	Restore Zone 0 - AC restore
E9	Restore Zone 9 - battery restore
BY	Open Zone (Code #) - reset by user code

16-Zone 4+2 Format

When selected, the FSK1 and SK 4+2 formats will send alarms on zones 1 through 16 as 01-16. All 16 zones have unique alarm codes. However, there are some limitations. Zone troubles and restores cannot be completely distinguished from alarms. Zones 9 and 10 share some codes with battery and AC supervision. Table 0-4 shows what codes will be reported when the 16-zone 4+2 format is used. (The codes that will be reported if this option is not selected appear in Table 0-2.)

Table 0-4. 16-Zone 4+2 Format

Zone	Code	Description
Alarm Zone 1	01	ALARM 1
...		...
Alarm Zone 8	08	ALARM 8
Alarm Zone 9	09	ALARM 9
Alarm Zone 10	10	ALARM 10
Alarm Zone 11	11	ALARM 11
...		...
Alarm Zone 16	16	ALARM 16
Trouble Zone 1	61	TROUBLE 1
...		...
Trouble Zone 8	68	TROUBLE 8
Trouble Zone 9	69	BATTERY TROUBLE
Trouble Zone 10	60	AC TROUBLE
Trouble Zone 11	61	TROUBLE 1
...		...
Trouble Zone 16	66	TROUBLE 6
Restore Zone 1	71	RESTORE 1
...		...
Restore Zone 8	78	RESTORE 8
Restore Zone 9	79	BATTERY RESTORE
Restore Zone 10	20	ALARM RESTORE 10
Restore Zone 11	21	ALARM RESTORE 11
...		...
Restore Zone 16	26	ALARM RESTORE 16