

SK1L

LCD KEYPAD

Installation & Programming Manual



**Use with
SC800/1600 Series control panels**

ARROWHEAD
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GENERAL DESCRIPTION OF SK1L

The SK1L is an EEPROM based Digital Arming Station with LCD display that provides full system status from one or more convenient locations. The SK1L can be programmed to meet a wide range of Residential and Commercial applications. Read and become familiar with the information contained in the SK1L Owner's Manual before proceeding with the installation.

Dimensions: 6 1/2" x 4 5/8" x 1"

Current Consumption: 80 mA minimum, 100 mA maximum each unit

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MOUNTING INSTRUCTIONS

- 1) Remove the SK1L from the packing box and verify that all the contents are there:
SK1L Keypad
SK1L Installation Manual
SK1L Owner's Manual
- 2) The front and rear covers snap together and can be easily separated for installation. Insert a small screwdriver into the slots located at the bottom of the keypad and gently press in and lift the front cover away from the backplate.

SURFACE MOUNTING

- 1) Using the rear plastic housing cover as a template, mark the four mounting holes on the wall. There are several different sets of mounting holes to suit a variety of different situations. The recommended mounting height is between 48" and 54" from the floor to the top edge of the keypad.
- 2) Insert the keypad wire through the opening in the center of the back housing and then fasten the back to the wall using sheet metal screws and wall anchors. On solid walls use the side knock outs for wiring.

ELECTRICAL BOX MOUNTING

- 1) The SK1L may be mounted directly onto a double gang box using the four curved slotted holes and four #6 x 32 x 1" pan head screws.
- 2) Refer to the following table or the hook up diagram in the control panel for the correct wiring.

CAUTION: ALL CONNECTIONS SHOULD BE MADE WITH POWER REMOVED

SK1L	SC800/1600 PANEL
KPD +V	TERM. 16
KPD -COM	TERM. 17
KPD I/O	TERM. 18

PROGRAMMING THE KEYPAD

The new version of the SK1L keypad has a 93C66 chip in location U1 on the back of the keypad PCB. Original keypads have a 93C46 chip in location U1.

The SK1L keypad needs to have its keypad address and its text messages programmed. These are set to default values at the factory. The SC800 / 1600 system will work fine with these default values. If you are using partitioned mode in the SC800 / 1600 then you must set the keypad address to match the partition to which it is assigned. Refer to the SC800 / 1600 installation manual for instructions on Partitioned mode. If you choose you can also modify the text messages. Older SK1L keypads do not have programmable text messages and the keypad address is the only programmable location.

CHANGING DATA OR TEXT THROUGH THE KEYPAD

1) Enter the following sequence at the keypad to activate keypad programming mode:


[* & 0] + [1111] + [9]

[* & 0] = Pressed simultaneously [1111] = Installer's code (factory default = 7777) programmed into control panel.

2) When you enter programming mode you will be at location 0. This is indicated by the top line in the display saying PROGRAM# followed by #0 the actual memory location. The current data in that address is displayed at the left on the second line of the display after you press [#].

3) Using the [*] key you can switch the cursor back and forth between the "program#" value and the "data" value. To change the memory location put the cursor on the "program#" value using the [*] key and enter a new three digit memory location, i.e. ("012" = 12). To change the data put the cursor on the data value using the [*] key and then enter new data .

4) The programming defaults for the domestic SK1L are shown in Figure 2. This programming shows the locations and range of data that each memory location will accept. The keypad map (Figure 1) shows which keys correspond to the Alpha-Numeric characters used in text programming.

5) While in "data" mode for locations 0 or 1, enter numbers using the number keys. For programming Alpha-Numeric locations, each number key will enter that number and 3 different characters. Refer to (Figure 1). Pressing a key repeatedly will cause it to step through these characters in sequence then repeat the sequence. Press the key as many times as you need to get the character you want showing in the display on line 2. When you have the character you want use the  key to move the cursor to the next position. Once you have the complete word showing in the display, press [#] to save that word and move on to the next memory location.

6) While entering or editing data the following keys can be used to reposition the cursor.

 move right  move left  up one line  down one line.

If you need to clear the line or clear one character the following keys are used.

[1 & 3] simultaneously to clear line [4 & 6] simultaneously to delete current character

7) To exit keypad programming press [* & #] simultaneously

8) The panel is now in normal mode and will operate as a control panel. You must use the correct keypad number when in partitioned mode to assign the keypad to the partition you intend.

The above procedure specifies keypad programming only. The SC800/1600 installation manuals (P/N 64812821) cover panel programming functions, locations, and partitioning mode. Refer to the SC800 /1600 installation manuals and the SK1L owner's manual (P/N 64812819) for information on WARRANTY and LIMITATION OF LIABILITY.

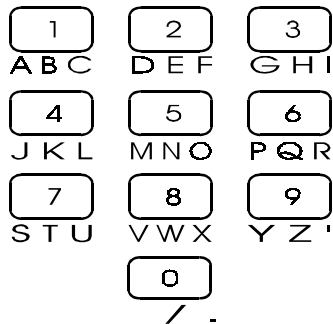


FIGURE 1 Character map for programming Alpha-Numeric descriptions using the SK1L keypad.

FIGURE 2
SK1L LCD KEYPAD EEPROM MEMORY MAP

Location	MESSAGES	ALPHA / NUMERIC DATA
1	"0" - Keypad ID (Starts from 0) (Select 0-7)	
2	"Z" - Letter used to identify zone number	
3	"KYPD PGM" - Local Programming prompt	
4	"PANEL PGM" - Panel Programming prompt	
5	"NOT READY" - Message indicating the system is not secure	
6	"ARMED INST" - Message indicating the system is Armed/ Instant	
7	"ALARM" - Message indicating the zone has caused an alarm	
8	"TROUBLE" - Message indicating a Fire or Day/Night zone is open	
9	"ARMED" - Message indicating the system is armed	
10	"READY" - Message indicating the system is Ready to Arm	
11	"BYPASSED" - indicates the specific zone is not armed	
12	"VIOLATED" - indicates Burglary zone is not secure	
13	"AC-OFF" - indicates the AC power is not available	
14	"LOW BATT." - indicates either no or low battery	
15	"FAIL COMMUNICATE" - indicates communication failure	
16	"PANEL LINE DOWN" - indicates no data to keypad	
17	Reserved for future use	
18	DAY MM-DD HH:MM Time / Date display format header	
19	*** - indicates undefined day of week	
20	SUN - indicates First day of the week	
21	MON - indicates Second day of the week	
22	TUE - indicates Third day of the week	
23	WED - indicates Fourth day of the week	
24	THU - indicates Fifth day of the week	
25	FRI - indicates Sixth day of the week	
26	SAT - indicates Seventh day of the week	
27	"USER" - Message identifying system user	
28	"STATION" - Message TO identify which keypad address was used	
	USER/INSTALLER MENU PROMPTS	
29	"SET TIME/DATE"	
30	"SET ENTRY TIME"	
31	"SET EXIT TIME"	
32	"EDIT USER CODE"	
33	"EDIT ZONE NAME"	
34	"CALL STATION"	
35	"ANSWER CALL"	
36	"PROGRAMMING"	
37	"VIEW HISTORY"	
38	"SEND"	
39	"RETRIEVE"	
40	"COPY PROM"	
	HISTORY ABBREVIATIONS	
41	"AL" - ALARM	
42	"TB" - TROUBLE	
43	"RT" - RESTORE	
44	"BP" - BYPASS	
45	"AX" - AUXILIARY	
46	"E1" - EMERGENCY KEYPAIR 1	
47	"E2" - EMERGENCY KEYPAIR 2	
48	"E3" - EMERGENCY KEYPAIR 3	
49	"E4" - EMERGENCY KEYPAIR 4	
50	"DU" - DURESS	
51	"CL" - CLOSE	
52	"OP" - OPEN	
53	"AR" - ALARM RESET	
54	"ST" - STATION	
55	"ET" - ENTER TEST MODE	
56	"DA" - DOOR ACCESS	
57	Reserved for future use	