

EKP1L

LCD KEYPAD

Installation & Programming Manual



**Use with
AV9000 Series control panels**

ARROWHEAD
A PRODUCT OF SENTROL, INC

GENERAL DESCRIPTION OF EKP1L

The EKP1L is an EEPROM based Digital Arming Station with LCD display that provides full system status from one or more convenient locations. The EKP1L can be programmed to meet a wide range of Residential and Commercial applications. Read and become familiar with the information contained in the EKP1L 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

The material in this publication is for informational purposes only and is subject to change without notice. SENTROL Inc. assumes no responsibility for any error which may appear in this publication.

MOUNTING INSTRUCTIONS

1) Remove the EKP1L from the packing box and verify that all the contents are there:

EKP1L Keypad

EKP1L Installation Manual

EKP1L 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 EKP1L may be mounted directly onto a double gang box using the four curved slotted holes and four #6 x 3/2 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

EKP1L	AV9000 PANEL
KPD +V	TERM. 5
KPD -COM	TERM. 6
KPD I/O	TERM. 7

PROGRAMMING THE KEYPAD

The EKP1L keypad needs to have its keypad address and its text messages programmed. These are set to default values at the factory. The AV9000 system will work fine with these default values. If you are using partitioned mode in the AV9000 then you must set the keypad address to match the partition to which it is assigned. Refer to the AV9000 installation manual for instructions on Partitioned mode. If you choose you can also modify the text messages. This can be done at the keypad or by using the ScanPro Downloader software program.

CHANGING DATA OR TEXT THROUGH THE KEYPAD

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

[* & 0] + [I I I I] + [9]

[* & 0] = Pressed simultaneously [I I I I] = 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 EKP1L 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.

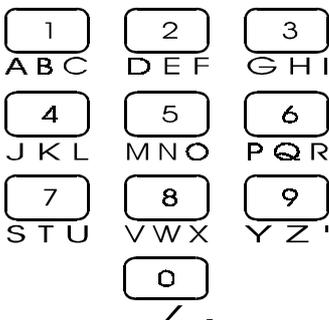
[1 & 3] simultaneously to clear line [4 & 6] simultaneously to delete current character

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 AV9000 installation manual (P/N 64812814) covers panel programming functions, locations, and partitioning mode. Refer to the AV9000 installation manuals and the EKP1L owner's manual (P/N 64812818) for information on WARRANTY and LIMITATION OF LIABILITY.

FIGURE 1



Character map for programming Alpha-Numeric descriptions using the EKP1L keypad.

FIGURE 2

Memory Location	EKP1L LCD KEYPAD EEPROM MEMORY MAP										NUMERIC DATA - (0 - 3)									
0	Keypad ID (Starts from 0)					(Select 0-3)														
1	1 = Auto Scroll , 2 = Key "0" used for Duress , 3 or 4 = Not Used (Cleared = Disabled)																			
2	(not used)																			
3	(not used)																			
4	(not used)																			
5	(not used)																			
6	(not used)																			
7	(not used)																			
8	Reserved for System Status - Do not Alter																			
MESSAGES					ALPHA / NUMERIC DATA															
9	'PROGRAM#' - shows the program line item																			
10	'NOT READY' - indicates the system is not secure																			
11	'ARMED INSTNT' - indicates the system is armed with no delay																			
12	'BYPASSED' - indicates the specific zone is not armed																			
13	'ALARM' - indicates the zone has caused an alarm																			
14	'TROUBLE' indicates the fire zone or Day/Night zone is open																			
15	'VIOLATED' - indicates Burglary zone is not secure																			
16	'ARMED' - indicates the zone is armed																			
17	'READY' indicates the system is secure and Ready to Arm																			
18	'AC-OFF' - indicates the AC power is not available																			
19	'LOW BATTERY' - indicates either no or low battery																			
20	'AC/BATTERY OKAY' - fault analysis response for good power																			
21	'FAIL COMMUNICATE' - indicates communication failure																			
22	'PANEL LINE DOWN' - indicates no data to keypad																			
23	'DAY MM-DD HH:MM' display for setting time/date																			
24	'***' - indicates undefined day of week																			
25	'SUN' - indicates First day of the week																			
26	'MON' - indicates Second day of the week																			
27	'TUE' - indicates Third day of the week																			
28	'WED' - indicates Fourth day of the week																			
29	'THU' - indicates Fifth day of the week																			
30	'FRI' - indicates Sixth day of the week																			
31	'SAT' - indicates Seventh day of the week																			
32	Zone 1 Description																			
33	Zone 2 Description																			
34	Zone 3 Description																			
35	Zone 4 Description																			
36	Zone 5 Description																			
37	Zone 6 Description																			
38	Zone 7 Description																			
39	Zone 8 Description																			
40	* Zone 9 Description (No Default) (Reserved for future use)																			
41	* Zone 10 Description (No Default) (Reserved for future use)																			
42	* Zone 11 Description (No Default) (Reserved for future use)																			
43	* Zone 12 Description (No Default) (Reserved for future use)																			
44	* Zone 13 Description (No Default) (Reserved for future use)																			
45	* Zone 14 Description (No Default) (Reserved for future use)																			
46	* Zone 15 Description (No Default) (Reserved for future use)																			
47	* Zone 16 Description (No Default) (Reserved for future use)																			