CADDX 9060E ENGLISH LANGUAGE
LCD KEYPAD
INSTALLATION MANUAL

TABLE OF CONTENTS

CADDX CONTROLS, INC.

1-800-727-2339

GENERAL DESCRIPTION

The 9060E Liquid Crystal Display (LCD) keypad has been designed to provide step-by-step English language information to the system user. When user action is required, the backlit, 2-line, 32 segment LCD display gives simple, specific, easy to understand instructions. The drawing below highlights all major elements of the keypad. When reference is made to the **"SmartBuss"**, it applies to LCD keypads attached to the 9000/9000E systems ONLY.
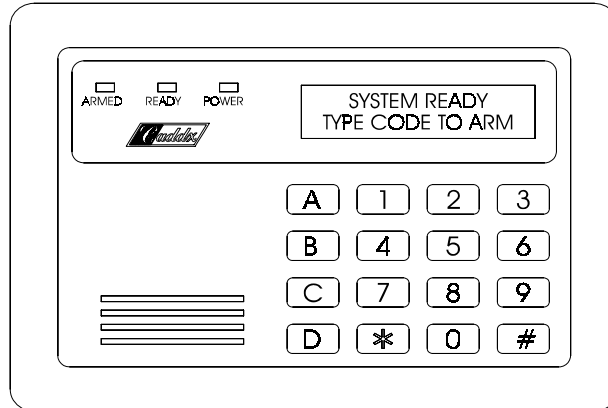
1. ARMED LIGHT (RED): Stays on continuously when control is armed. Blinks to indicate an alarm has occurred. (Alarm Memory)

2. READY LIGHT (GREEN): On when all zones are secured or bypassed.

3. POWER LIGHT (RED): On when A.C power is present. Flashing for low battery.

4. AUXILIARY 1 KEYS [1] and [3]: If enabled, these keys, when pressed at the same time, will activate the steady siren output and transmit the selected code.

5. AUXILIARY 2 KEYS [4] and [6]: If enabled, these keys, when pressed at the same time, will activate the keypad sounder and transmit the selected code.

6. PANIC KEYS [✱] and [#]: These keys, when pressed at the same time , will activate the siren output (if not programmed for silent operation) and transmit the selected code.

7. RESET KEY [#]: Use after invalid code entries and/or power down smoke and/or auxiliary power for 10 seconds to reset. Provided other functions in the program mode. (page 11)

8. STAR KEY [✱]: Used before and after selected zones number keypress to isolate zones. Also provides other functions in program mode. (page 11)

9. SPECIAL FUNCTION KEYS [A], [B], [C], [D]: The keys allow access to special functions in the run mode. They also allow the installer to perform programming functions as detailed in the appropriate sections of the booklet.

10. ADJUSTABLE SOUNDER: Provides an audible out when a key is pressed, during pre-alarm, and when trouble or certain alarms occur.

POWER UP INFORMATION

Always disconnect the A.C. and battery power before connecting the LCD keypad to the CADDX security control. Connect the four wires on the keypad to the appropriate terminals on the CADDX Security Control selected for this installation. After connection is complete and upon power-up of the Security Control, the LCD keypad will display the current status of the security system. If all zones are secure, the message will look as follows:

```
SYSTEM READY
TYPE  CODE TO ARM
```

If a zone is open, the following message will be displayed:

```
SYSTEM NOT READY
TYPE A FOR HELP
```

When the above message is displayed and the **[A]** key is pressed, the LCD screen will display the zone number, condition, and custom message (if any) of faulted and/or bypassed zone as shown below:

```
03 FAULTED
LOADING DOCK
```

If zones are bypassed, and other zones are ready, the following message will be displayed:

```
02 ZONES BYPASSD
TYPE A FOR HELP
```

When the above message is displayed and the **[A]** key is pressed, the LCD screen will display in sequence the zone number(s) and custom name of the bypassed zone(s) as shown below:

```
01 BYPASSED
FRONT DOOR
```

A custom system message can be programmed separately for both lines of the LCD as shown below. (see page 9)

```
YOUR CUSTOM
MESSAGE HERE
```

PROGRAMMING THE LCD KEYPAD

The CADDX LCD keypad can be customized to individual installation requirements by utilizing the LCD keypad programming mode. In some areas the LCD screen will advance automatically, however, where noted you must press **[#]** to save and move to the next programming option.

ENTERING LCD PROGRAM MODE

To enter the program mode, type: ☞ **C** ☞ **0** ☞ **0**

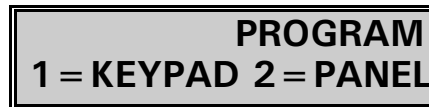The LCD screen will now display:

```
ENTER FOUR DIGIT
CODE _ _ _ _
```

Now type the four digit "Go To Program Code" that is programmed in the LCD keypad.
NOTE: If the LCD keypad "Go To Program Code" is unknown, refer to "Factory Defaulting the LCD Keypad" on page 11.

Factory default is: ☞ **9** ☞ **0** ☞ **5** ☞ **0**

The LCD screen will now display:

```
          PROGRAM
1 = KEYPAD 2 = PANEL
```

To enter the "KEYPAD" custom programming mode, press: ☞ **1**

To choose "PANEL" programming, press **[2]** and refer to "Control Panel Programming from the LCD Keypad" on page 11.

SELECTING PANEL TYPES

Select the number which corresponds to the panel being programmed. NOTE: All panels in the U.S. except the 8900 will fall under the category of "OTHER". "AUST" refers to panels manufacturered for Australian use.

```
PANEL      1 = 8900
2 = AUST  3 = OTHER
```
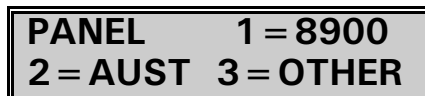
THE DEFAULT SCREEN

The following screen is used to default ALL keypad programming back to original factory default, or to continue custom programming of the LCD keypad:

```
PROG DEFAULTS
9 = YES    2 = NO
```
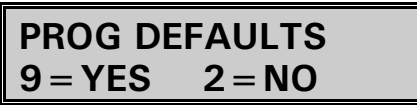
YES - Choosing "YES" from this screen will convert ALL previously entered keypad programming to their default values and default the "Go To Program Code" to **[9]-[0]-[5]-[0]**.

NO - Choosing "NO" will allow the continuation of LCD custom programming, while retaining any custom programming that has already been done.

SOUNDER VOLUME ADJUSTMENT:

The keypad sounder volume level can be adjusted from the following screen by selecting an entry from **[1]-[7]**. To turn the sounder off, press **[9]**.

```
VOLUME 1-7
OFF = 9
```
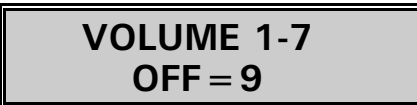
It is possible to scan through levels 1 thru 7 to hear all the different levels available. Once the desired level is found, continue programming by pressing:

☞

NOTE: THE SOUNDER SHALL NOT BE TURNED OFF IN U.L.LISTED SYSTEMS.

TWO LINE CUSTOM MESSAGE:

If desired, a 2-line, 32-character custom message can be displayed on the LCD screen. The programming of the custom message can be performed later in the programming table, but only if you choose "YES from the following screen. NOTE: This is for a customized message, not the custom zone descriptions, they will be described later on page 8 of this manual.

```
CUSTOM MESSAGE
1 = YES    2 = NO
```
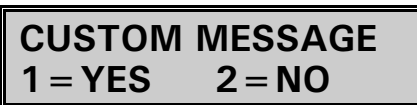
FAIL TO COMMUNICATE MESSAGE:

From the following screen, choose "YES" or "NO" for display of the "FAILURE TO COMMUNICATE" message when a related communication fault occurs. Refer to your 9000E installation manual for more details regarding communication fault detection features.

```
FAIL TO COM MSG
1 = YES    2 = NO
```
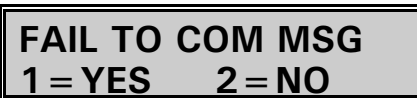
LED EXTINGUISH FEATURE:

If desired, all keypad lighting (except touchpad backlighting) may be extinguished after 60 seconds of keypad inactivity. Extinguished lighting will become illuminated immediately upon any keypress or change of condition.

NOTE: The touchpad backlighting can only be extinguished by pressing **[B]-[0]**. Refer to the User Manual for more detail.

```
ENABLE LED EXT
1 = YES     2 = NO
```

Press 👉 **1** to enable the "LED EXTINGUISH" feature.

Press 👉 **2** to disable the "LED EXTINGUISH" feature.

SUPPRESS ZONES' STATUS FROM THE DISPLAY:

Under normal conditions, the keypad LCD screen will display bypassed zones and/or zones that have created an alarm. With the 9000E, the displaying of zone status can be suppressed by entering the appropriate number when the screen below appears. When this feature is selected, the LCD screen will display "SYSTEM ARMED" even during an alarm condition. NOTE: THIS FIELD SHALL BE DISABLED IN U.L.LISTED SYSTEMS.

```
SUP ZONE STATUS
1 = YES     2 = NO
```

Press 👉 **1** to "Suppress Zone Status" while Armed.

Press 👉 **2** to display zone status while Armed.

EXITING THE PROGRAM MODE

From this point forward, you can exit the program mode cby entering the following keypresses:

To exit programming, press: 👉 **9** 👉 **3** 👉 **0** 👉 **#**

LCD GO TO PROGRAM CODE:

The LCD keypad is factory defaulted with a 4 digit "Go To Program Code", **[9]-[0]-[5]-[0]** which permits entering the programming mode. This "Go To Program Code" can be changed from the screen below:

```
PROGRAM CODE
9050
```

The desired new code must be entered one digit at a time, following each digit with the **[✱]** key. For example, to change this code to **[6]-[3]-[1]-[2]**, you must be viewing the screen above, and follow the keypresses below.

☞ **6**   ☞ **✱**   ☞ **3**   ☞ **✱**

☞ **1**   ☞ **✱**   ☞ **2**   ☞ **✱**
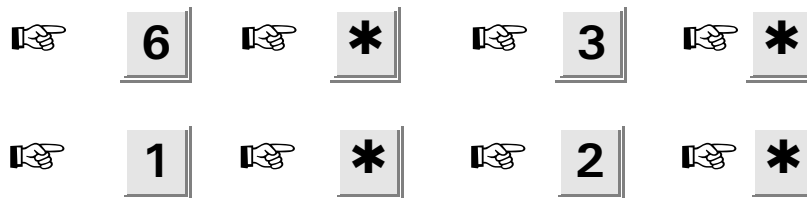
The LCD screen should now display:

```
PROGRAM CODE
6312
```

Once programming is complete, advance to the next screen by pressing   ☞ **#**

CUSTOM MESSAGE DISPLAY:

If you selected the " CUSTOM MESSAGE" option earlier in programming, the screen below will be displayed for programming "LINE 1"(the top line) of your custom message. To program or change a keypad custom message, refer to "Programming Custom Text" on page 8.

```
CUST MESS-LINE 1
CUST MESS-LINE 1
```

Once programming is complete, advance to the next screen by pressing   ☞ **#**

Now, the screen below should appear for the programming of "LINE 2" (the bottom line).

```
CUST MESS-LINE 2
CUST MESS-LINE 2
```

Once programming is complete, advance to the next screen by pressing   ☞ **#**

ZONE TYPES (FIRE OR BURGLARY):

Two types of messages can be displayed when programming custom zone messages. When using an 8000, 8600, 8980, or 8980E, the keypad is unable to determine the zone type (Burglary or Fire) you have selected in the panel programming for each of the zones, so a screen will be displayed for each zone of the control panel being programmed. When these screens are displayed, pressing the **[✱]** will toggle the zone type from "BURGLARY" to "FIRE". The zone type selected will be displayed in the run mode when zone information is being displayed.

ZONE 01 = BURG TYPE ✱ TO TOGGLE	OR	ZONE 01 = FIRE TYPE ✱ TO TOGGLE
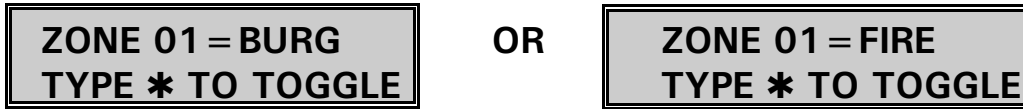
Once programming is complete, advance to the next screen by pressing ☞ **#**

CUSTOM ZONE DESCRIPTIONS

Your choice of custom zone descriptions can be programmed for each zone of the system being programmed. The screen below is an example of the screen that would be displayed for this programming. You will notice that ZONE 1 was selected as a "BURGLARY" type (see top line of display). The bottom line is where the custom description will appear. If custom zone descriptions are not programmed, the bottom line will simply display the zone and its number. For programming these custom descriptions, refer to "Programming Custom Text", below.

| ZONE 01 = BURG ZONE 1	OR	ZONE 01 = BURG FRONT DOOR
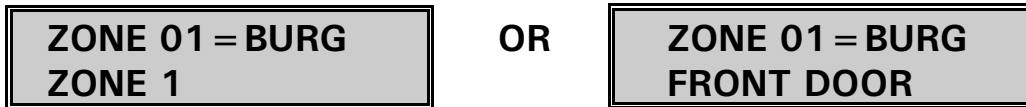
PROGRAMMING CUSTOM TEXT

Programming custom text refers to "Custom Messages" (if applicable) and "Custom Zone Descriptions". When you are first presented with any message, the top line always displays the Default, and the bottom line is where the editing takes place. To program Zone 1 with the custom word "Entry Door", study the "Special Function Keys"and refer to the "Character Conversion List", and the "Library List" on page 10 while following the examples below.

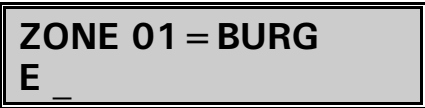When beginning programming of Zone 1 description the screen below will appear:

ZONE 01 = BURG
ZONE 1
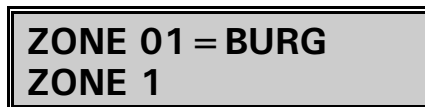
Press ☞ **D** six times to delete the six character bottom line default listing (ZONE 1).
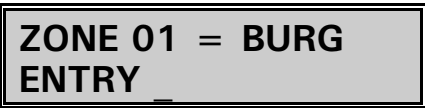
ZONE 01 = BURG
_
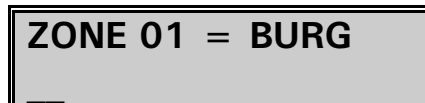
With our description to be "ENTRY DOOR", refer to the "Character Conversion List" to begin spelling "ENTRY". You will see that the first character which is an "E" is entered by using the [**5**] key. The [✱] key will save the "E" on screen while moving the cursor ahead to the next character location.

Press ☞ 5 ☞ ✱ and you will see the screen below:

```
ZONE 01 = BURG
E _
```

Continue this spelling process until the word "ENTRY" is complete, and then press the [✱] key to insert a space. The cursor should now be in position for the word "DOOR".

```
ZONE 01 = BURG
ENTRY _
```

Since "DOOR" is a word in the Library List, you can choose the word in lieu of spelling it. Refer to the "Character Conversion List" for the number that corresponds to "D" which is the [**4**] key. Type [**4**]-[**A**] to take you to the "Words Beginning With D" category in the "Library List". Use the [**B**] key to scroll through all the words in this category. When the word "DOOR" appears on screen, press the [✱] key to save it. The screen will now appear as below:
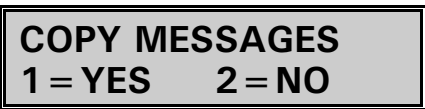
```
ZONE 01 = BURG
ENTRY DOOR
```

Now that you have completed programming the "Custom Zone Description" for Zone 1, you can to advance to the next zone(s) to be customized by pressing:

☞ #

COPY KEYPAD MESSAGES:

When using the LCD keypad in the SmartBuss mode, "COPY MESSAGE" will be displayed after you press [**9**]-[**3**]-[**0**]-[**#**] to save and exit. This feature enables you to copy all custom messages to any other LCD keypad in the system.

```
COPY MESSAGES
1 = YES     2 = NO
```

Press ☞ 1 to "Copy Messages" throughout the system keypads.

Press ☞ 2 to **NOT** "Copy Messages" throughout the system keypads.

SPECIAL FUNCTION KEYS

A **Library Key** - To enter the library mode, pressing the **[A]** key will take you to "Words That Begin With "A", or enter the desired category's numerical code (A = 1 thru Z = 26) followed by **[A]** to take you to a specific letter category. Any subsequent **[A]** keypress will advance you to the next letter category in the "Library List".

B **Scroll key** - When a desired letter (A-Z) in the Library is reached with the **[A]** key, you can scroll through that category by using the **[B]** key.

Example: To program the word "DOOR", place the cursor where the word should begin. Press **[4]-[A]** or **[A]-[A]-[A]-[A]** to reach "Words That Begin With D" category. Scroll through the "D" words with the **[B]** key until the word "DOOR" appears on the screen and press the **[✱]** key to save. To exit without saving a word, press the **[#]** key, and the screen will revert to its default.

C **Shift Key** - The **[C]** key will insert a space at the cursor position and shift the remaining message to the right.

D **Delete Key** - The **[D]** key deletes the character or space where the cursor is setting.

✱ **Save Key** - The **[✱]** key will save a character selected to the screen. This key will also move the cursor forward through the display screen.

CHARACTER CONVERSION LIST

The list below contains the characters that are available for the spelling of custom messages in the LCD keypad display. The characters are in **bold** text, while their numerical equivalent that would be entered during programming to obtain these characters are in standard form.

A = 1	**J** = 10	**S** = 19	**BKSP** = 27	**✱** = 35	**0** = 60
B = 2	**K** = 11	**T** = 20	**'** = 28	**+** = 36	**1** = 61
C = 3	**L** = 12	**U** = 21	**!** = 29	**,** = 37	**2** = 62
D = 4	**M** = 13	**V** = 22	**#** = 30	**-** = 38	**3** = 63
E = 5	**N** = 14	**W** = 23	**$** = 31	**.** = 39	**4** = 64
F = 6	**O** = 15	**X** = 24	**&** = 32	**/** = 40	**5** = 65
G = 7	**P** = 16	**Y** = 25	**(** = 33	**:** = 41	**6** = 66
H = 8	**Q** = 17	**Z** = 26	**)** = 34	**?** = 42	**7** = 67
I = 9	**R** = 18				**8** = 68
					9 = 69

LIBRARY LIST

ALARM	FRONT	LIVING	SAFE	TROUBLE
AUDIO	GARAGE	MASTER	SECTOR	ULTRASONIC
BATHROOM	GLASSBREAK	MOTION	SENSOR	UPSTAIRS
BEDROOM	HALL	NURSERY	SHOCK	VAULT
CEILING	INFRARED	OFFICE	SIDE	WARE HOUSE
DETECTOR	INTERIOR	PANIC	SKYLIGHT	WINDOWS
DOOR	JUNK	PIR	SLIDING	X-RAY
EXTERIOR	KITCHEN	QUITE	SMOKE	YARD
FIRE	LIBRARY	ROOM	TAMPER	ZONE

PROGRAMMING THE CONTROL PANEL FROM THE LCD KEYPAD

The LCD keypad can be used to program the control panel. Simply select the "program control" mode by selecting option 2 on Display 1, as described in the programming instructions on page 4 of this booklet. The LCD screen will display location and data information as shown below:

```
LOCATION = 000
DATA =        1
```

The keypad will then perform programming functions exactly as an 8950 programmer. Press the **[#]** key to advance to the next location. To change the data in a location, press the appropriate key(s) followed by the **[✱]** key. To exit the programming mode, press [9]-[3]-[0]-[#]. Refer to the control panel installation manual for more detail. **NOTE:** In partitioned systems, the keypad will not enter the program mode if any partition is in the "ARMED" state.

KEYPAD SETTINGS FOR PARTITIONED SYSTEMS

The 9060E keypads have a 4-position dip switch on the PC board that is easily accessed from the back of the keypad. If partitioning is not being used, all switches must be in the "OFF" position. If partitioning is being used, refer to the table below to set the keypads for use in the correct partition.

PARTITION NUMBER	SWITCH 1	SWITCH 2
PARTITION #1	OFF	OFF
PARTITION #2	ON	OFF
PARTITION #3	OFF	ON
PARTITION #4	ON	ON

The positions of dip switches 1 and 2 determine the partition to which the keypad belongs, as indicated in the table above. Example: If the keypad is in Partition 3, Switch 1 should be "OFF", and Switch 2 should be "ON". Switch 3 is to select Master mode keypads (see below), and Switch 4 is reserved for future use, and should be "OFF" at all times. All keypads are shipped from the factory for Partition 1 usage (switches 1 & 2 "OFF"). **NOTE**: If a Common Area is being used, keypad #1 (Common Area keypad) will not disarm the Common Area.

SELECTING MASTER MODE KEYPADS

Master keypads have the ability to perform any function in any partition for which the users' code is authorized. To select a keypad as a Master keypad, dip switch #3 should be "ON".

DOWNLOADING THE LCD KEYPAD

The LCD keypad may be downloaded directly from the download software when used in conjunction with the 8980E or 9000E Downloadable Security Control. If you are downloading messages to a system that has both 9050 and 9060E keypads in it, these keypads must be downloaded separately.

CLEARING THE ALARM MEMORY

The Ranger 9000/9000E retains the last 12 alarm events in memory. To clear the Alarm Memory, press [C]-[9]-[5], followed by the Master Code.

SPECIFICATIONS

OPERATING VOLTAGE	**12 VDC**
MAXIMUM CURRENT DRAW	**95 mA With Pre-Alarm** **70 mA Without Pre-Alarm**
KEYPAD DIMENSIONS	**6.45" Wide** **4.12" High** **1.00" Deep**
SHIPPING WEIGHT	**8 oz.**
COLOR	**Off White**
MATERIAL	**ABS Plastic**

FIVE YEAR LIMITED WARRANTY

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