

# Baek enterprise Ltd.

## Runner Series 8/16 wireless and wired control panel information & Quick Set-up Guide.

### 1) Setup

#### 1.1) The panel:

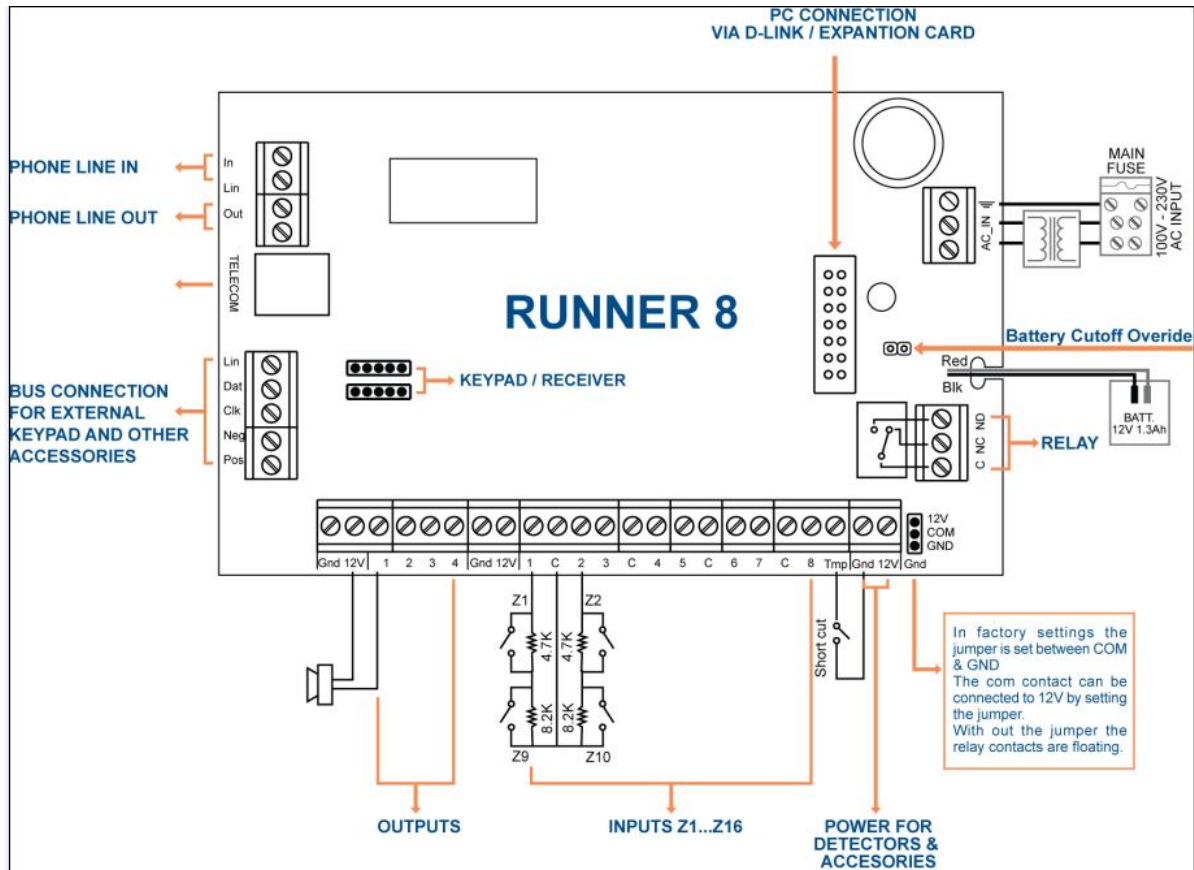


Figure 1 (Panel Layout Diagram)

The panel is a hybrid panel so you may mix and match between wired and wireless detectors, up to a maximum of 16 devices. Additional wireless receivers may be added to increase the coverage.

The system may have up to 100 users which may be keypad code, wireless fob or prox.

#### 1.2) Important Information

**User 1 Default code: 1234**

**Engineer Default Code: 000000**

### 1.3) Wiring the panel

The system may have up to a maximum of 8 keypads which can be a standard keypad, prox reader or a mixture.

The keypad is connected via the BUS terminations on the left hand side of the PCB or via either of the two plug-in terminals adjacent.

The system has four outputs with a set of relay change over contacts on the right hand side of PCB. Note: this output follows output 4 condition.

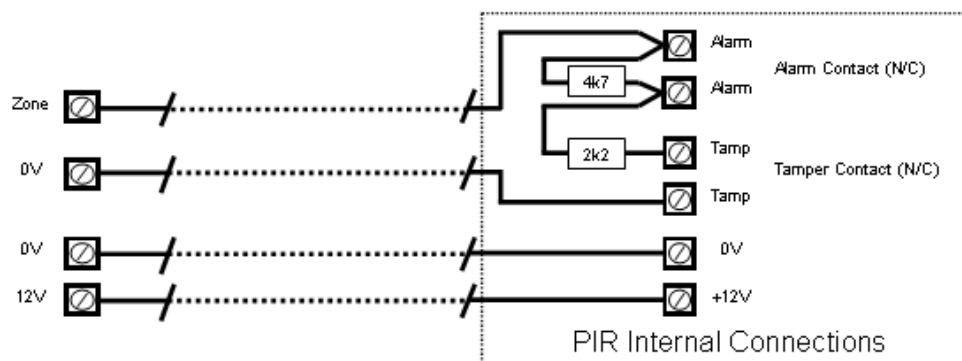
The external bell and panel tamper share a common tamper and should be wired in series.

If the battery should be connected incorrectly a bright LED will illuminate on the right hand side of the PCB to alert the installer. Disconnect immediately and re-connect correctly, no damage will have been caused.

The 12v 0.75amp power terminals are also protected via resettable fuses to prevent damage to panel.

The zones can be monitored via a number of different EOL resistor values which may be chosen by the installer via the Installer Program menu.

Typical wiring diagram for connection of detector.



**Note: You must program the panel according to the EOL resistor used for the wired zone. (See section 2.4.6)**

## 2) Programming the control panel

### 2.1) *Entering Installer Program Mode*

Before you can enter Installer Program mode from day mode, the panel must not be Armed or in Stay mode. Program mode access is inhibited if any part of the system is armed.

Press <**PROGRAM**> - <**Installer Code**> (**Default 000000**) - <**ENTER**>.

*Display will show first menu in installer mode: USERS*

You are now in Installer Program Mode. You can program the panel by entering addresses (section 2.2) or by navigating the menu (section 2.3).

### 2.2) *Entering Addresses into the panel*

Addresses in this manual are shown in the following format: e.g. P1E4E. To enter an address into the panel, first enter Installer Program mode (section 2.1). Then enter the address. (P stands for program, E stands for Enter.)

E.g. P1E4E: Program – 1 – Enter – 4 – Enter.

To set options in an address; the screen will show currently enabled options for that address. Press numbers 1-8 to enable or disable the options for that address. Press Enter to confirm.

E.g. Screen Shows: 1--4-78 (Options 1, 4, 7 and 8 are enabled.)

Alternatively, you can press Control and Enter together when on the options screen in an address to show the options in English. Press Up and Down to scroll through the options in an address, and press any number key to toggle Yes or No for each option.

### 2.3) *Navigating the Installer Program Mode Menu*

Menu's can be moved through using the arrow keys up and down and by pressing the “**Enter**” key to bring the installer into the sub-menus. To escape back to the main menu press the “**Prog**” key.

Main menu set-up is as in the diagram on the following page.

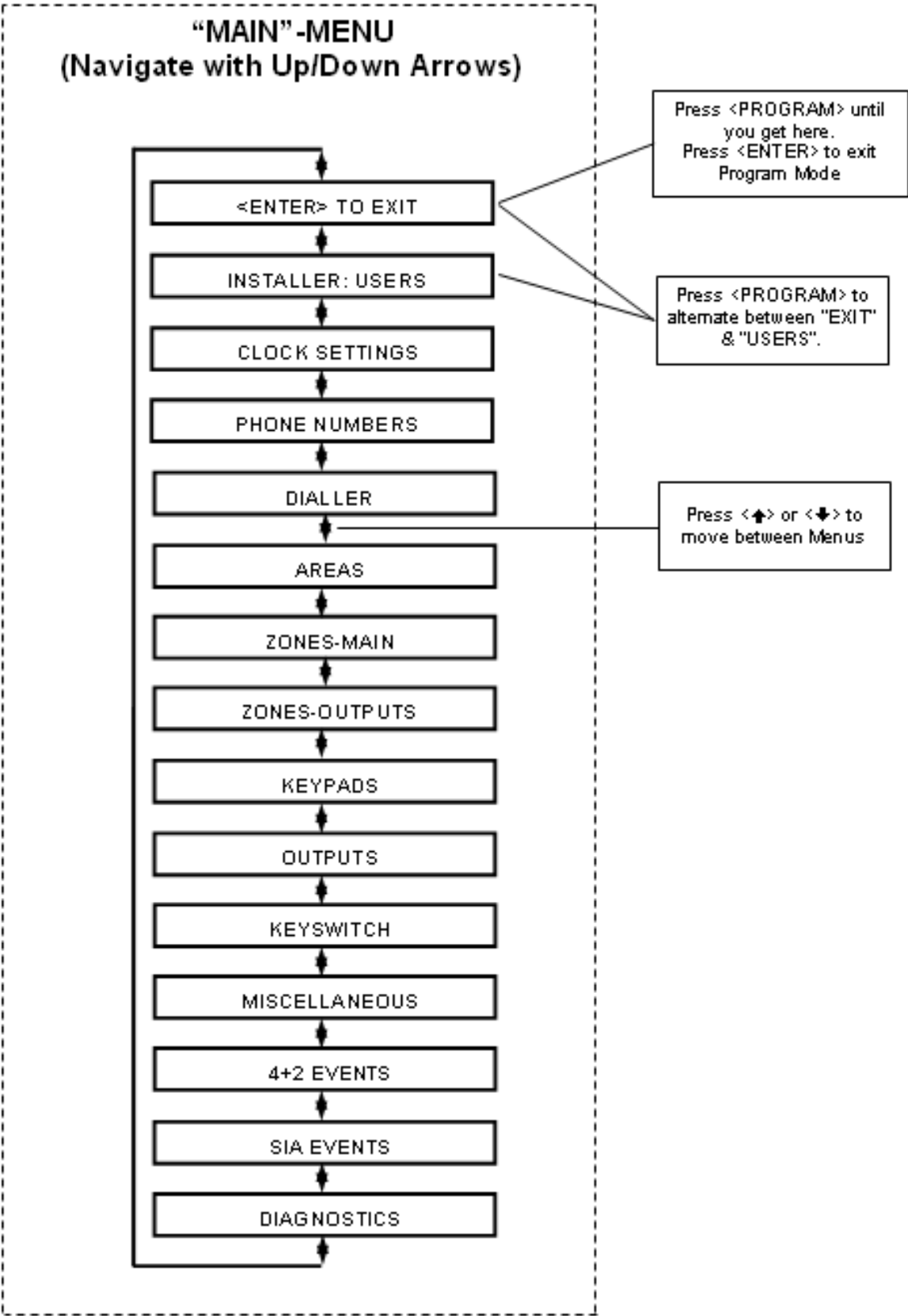


Figure 2 (Panel Menu Structure)

For example to program zones, follow the following steps.

- Use arrow keys to go to **ZONES-MAIN**
- Press **ENTER** display shows **Zn Areas**
- Press **ENTER** which shows **Zn 1 Areas 1-----**
- HINT: In this type of field hold **CONTROL** and press **ENTER** this will give you the programming information in plain text as opposed to numeric
- Use the **↑↓** keys to move up the options of zone 1
- To change parameters use any of the numeric keys to toggle between yes and no.
- When finished programming that field press **Enter** to bring you back to **Zn 1 Areas 1-----** and use the up key to move to the next parameter of zone 1 to be programmed.
- Note: You may also use the **Bypass** key and **Stay** keys to move between zones 1-16
- Once finished programming use the **Prog** key to exit to the main menu.
- If all fields have been programmed there are two ways to exit program mode with an LCD keypad
- Repeatedly press the **Prog** button until the display shows
- **Enter** to exit
- **OR**
- Press and hold the **Prog** button for 2 seconds to exit program mode.
- The panel has now returned to customer mode and any program changes you have made will have replaced previous values.

## 2.4) Setting Common Settings

Enter Installer Program mode (see section 2.1). Then enter the address (section 2.2).

### 2.4.1) Set the Clock:

Address	Description
P26E	Set the hour and date. Press Up and Down to set Date etc.

### 2.4.2) Assigning Keypad Area:

Address	Description
P71E 1-8E	Assign the keypad to the correct area. Area

### 2.4.3) Dialler and Telephone Numbers:

SEQ	Address	Remarks/Example
1	P175E 1E	By default the Dialer is turned On. To turn Off the dialer, you must turn off Option 1 at address P175E1E.
2	P175E 3E	Set auto ring count. This is in case the dialled number has an answering service that only answers after a predetermined number of rings.
3	181E 1-8E	Program the phone numbers.
4	P182E 1-8E	Set the reporting format.
5	P62E 1-2E	In cases where the CID reporting format is used, program the account code.

### 2.4.4) Programming Exit/Entry times

Address	Description
P144E 1-16E	Zone 1-16 entry delay, 0-9999 Seconds. 0 Means there is no entry delay.
P145E 1-16E	Zone 1 entry delay when armed in Stay Mode, 0-9999 Seconds. 0 Means there is no entry delay.
P60E 1-8 E	Area A, or B exit delay (1-8 corresponds to Area; 1 for A, 2 for B etc). 0-9999 Seconds. 0 Means there is no entry delay.
P60E 1-8 E	Area A, or B exit delay (1-8 corresponds to Area; 1 for A, 2 for B etc). 0-9999 Seconds. 0 Means there is no entry delay.

### 2.4.5) Setting User Codes

Address	Description
P1E 1-100E	Set the user code for user 1-100 (password). Code 1 is P1E1E and defaults to 1234. This means that User 1 automatically gets the code 1234. Code 2 is P1E2E, this continues up to P1E100E for user 100.

### 2.4.6) Programming Inputs

Address	Description
<b>P125E (1-8) E</b>	Choose Zone 1-8. Enable EOL option from table below, default is 0 for all zones.

<b>0</b>	<b>Short circuit</b>
<b>1</b>	Terminated with a 1K resistor
<b>2</b>	Terminated with a 1K5 resistor
<b>3</b>	Terminated with a 2K2 resistor
<b>4</b>	Terminated with a 3K3 resistor
<b>5</b>	Terminated with a 3K9 resistor
<b>6</b>	Terminated with a 4K7 resistor
<b>7</b>	Terminated with a 5K6 resistor
<b>8</b>	Terminated with a 6K8 resistor
<b>9</b>	Terminated with a 10K resistor
<b>10</b>	Terminated with a 12K resistor
<b>11</b>	Terminated with a 22K resistor
<b>12</b>	Terminated with a 2K2/4K7 resistor
<b>13</b>	Terminated with a 3K3/6K8 resistor
<b>14</b>	Terminated with a 2K2/4K7/8K2 resistor
<b>15</b>	Terminated with a 4K7/8K2 resistor

### 2.4.7) Enabling the Keypad Tamper

Address	Description
<b>P25E 13E</b>	Enable Keypad Tamper. Enable option 7.

### 2.4.8) Setting Outputs

Outputs are as follows:

- Output#1: Internal Piezo with Driver connected (Internal sounder)

Address	Description
P37E 1E	For 8 Ohm extension speaker. Enable option 1.
<b><i>To enable exit/entry tones on output one, set the following options.</i></b>	
P65E 1E	Area Exit Output options. Enable option 1.
P161E 1-16E	To enable Zones (1-16) armed entry delay to output. Enable option 1
P162E 1-16E	To enable Zones (1-16) STAY entry delay to output. Enable option 1

- Output#2: Open Collector Type, 0.75A @12V DC. (Bell Trig')

<b><i>To set the bell time to 15minutes following an alarm condition, set the following options:</i></b>	
Address	Description
P37E 2E	Enable Option 2, for timers in minutes.
P40E 2E	Set bell cut-off time. Enter 15.

- Output#3&4: Open Collector Type, 0.5A @12V DC. (Strobe & Other)

<b><i>Output 3 needs to be a negative applied for the strobe light on the external bell, only active on an alarm condition and must not reset until the alarm is reset. Set the following options for all zones:</i></b>	
Address	Description
P128E 1-16E	Zone 1-16 Arm Outputs (Set option 3 for Output 3)
P129E 1-16E	Zone 1-16 Stay Outputs (Set option 3 for Output 3)
P130E 1-16E	Zone 1-16 24Hr Outputs (Set option 3 for Output 3)

- Output#4: Relay Change over Contacts Capability: 2A @12V DC.

### 2.4.9) Programming Radio devices

- Enter Installer Program mode. (Section 2.1)
- Navigate to **Zones-Main** in the menu. Press **Enter** twice, display shows **Zn 1 Areas**
- Using the arrow keys **STAY**← and **BYPASS**→ choose which zone you wish to program as radio.
- Then use the **MEMORY**↑ key to go to **Zn ? Learn Radio (enter to start)**
- Press **Enter** and keypad will show **Learning** plus zone number and start beeping
- Break tamper on wireless device, keypad will show **Found** with zone number
- Wireless device is now programmed to that zone, set the other parameters then press Enter
- Important notes: Ensure that zone is programmed as **Yes** for the following **Active** and as **Radio Device** and as **Radio type 3** (supervised) press **Enter** then **Prog** to get back to main menu

SEQ	Address	Remarks/Example
1	P122E 1-16E	For Zone 1-16. Set the zones in use as active. Turn on option 1 (zone active).
2	P121E 1-16E.	Select zone 1-16 area assignment.
3	P122E	Set the zone type (radio zone = option 5).
4	P127E	Set radio zone detector type. (set as type 3)
5	P164E 1-16E	Learn (Recognize) the detector, for Zone 1-16. For a detailed explanation see the Learn Radio Zone Codes section.

### 2.4.10) Programming Radio Pendants

SEQ	Address	Remarks/Example
1	P2E 21-100E	Set the user as a radio user. Enter a 1 for crow pendants.
2	P18E 21-100E	Recognize the pendant.
3	P7E 21-100E	Set the radio user type. Enter a 1 for crow pendants.
4	P3E 21-100E	Select the pendant area.
5	P4E 21-100E	Set the user access options.
6	P8E 21-100E	Setting pendant privileges.

### 2.5) RSSI Wireless Strength Meter

The system is also fitted with a RSSI wireless strength meter, using this option can help you to measure the signal strength from the wireless device and help you to decide where to fit it.

To use the RSSI you need to go to **Diagnostics** in the Installer Program menu then press **Enter**, use the **MEMORY**↑ key to move up to **Radio RSSI**

Press **Enter**, keypad will show **Radio RSSI (enter to start)** press **Enter** keypad will now show **scanning...** breaking the tamper on any wireless device will give you the **zone number** and the % of signal strength. Pressing the **Prog** key **twice** will bring you out to the **main menu**.

### 3) Programming the Keypad

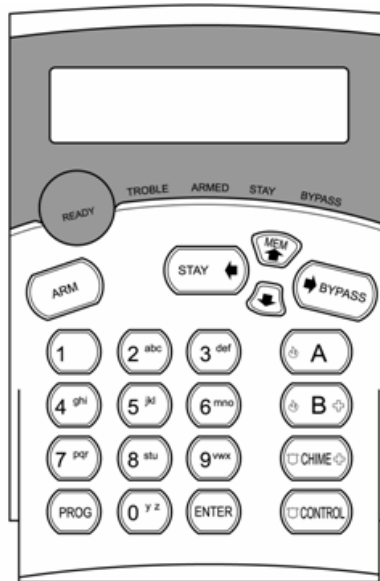


Figure 3 (Keypad Diagram)

#### 3.1) Entering Local Program Mode

Before you can enter Local Program mode from normal operating mode, the panel must not be Armed or in Stay mode. Program mode access is inhibited if any part of the system is armed.

Press **CONTROL** and then **ARM** and hold for 2 seconds.

*Display will show "User Names"*

You are now in Local Program Mode.

##### 3.1.1) Copying Text to another LCD Keypad

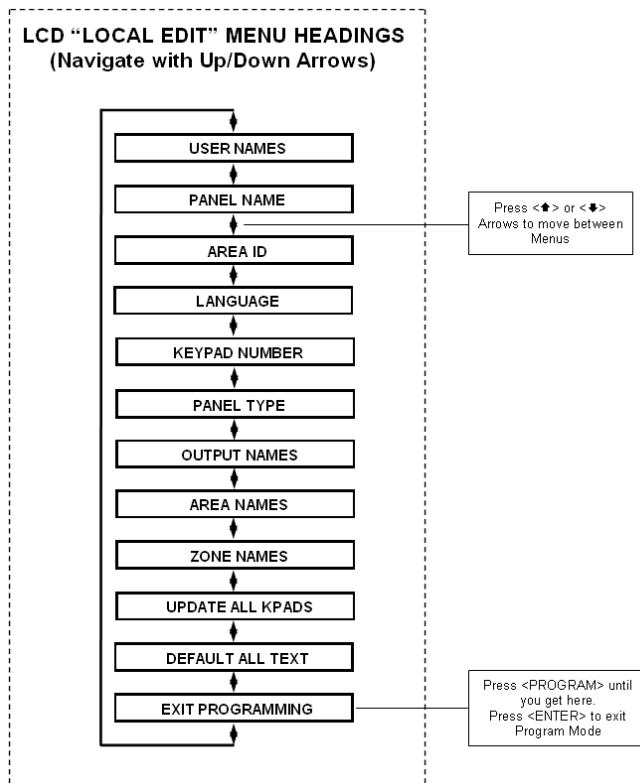
If more than one LCD keypad is connected to the panel, it is possible to copy the edited Text from one LCD keypad to all other LCD keypads connected to the same panel.

When you enter in [**PROG**]-[**800**]-[**ENTER**], all of the customisable text at the keypad is transferred to all other LCD keypads connected to the control panel.

There is also an alternative method to transfer the text. Pressing the **CHIME** button for two seconds while in "Local Edit Mode" performs the transfer. The text in your keypad is transferred to all other LCD keypads connected to the panel.

### 3.2) Navigating the Local Program Mode Menu

The LCD Keypad Main menu headings for **Local Edit** program mode are listed on this page. On entering Local Edit Mode the display looks like the example below.



To program zone name toggle down to **Zone Names** and press **Enter**, zone number will show for example **zone 1**.

Press **Enter** again and top display will show **Zone 1 A. .Z** and bottom line will show **Zone 1**. To change the display to Hall use the keys with the letters marked on them.

For example:

**Hall** will be programmed pressing the number **4** until a capital **H** replaces the **Z** of zone. Use the arrow key to move to the right and **press 2 to enter A**. If you wish to use lower case use the up arrow which will change the "**A. .Z**" to "**a. .z**." Press **2** again and the letter will change to **a**. Use the arrow key to move to the right again and press the "**5**" key" until "**P**" shows. Repeat for the second **l**. To remove any unwanted text use the arrow keys left or right and press the **0** key until text is removed. Press **PROG** twice to get into local mode and once again to show **Exit programming** press **ENTER**.

The same procedure is used to program user names, output names, area names etc.

Once finished, you can hold "**Prog**" for 2 seconds to return to day mode.

**Note: Panel comes with keypad tamper disarmed. To enable keypad Tamper, see section 2.4.7**