



**Guardall**

**Pi-8 Comms**

**USER MANUAL**





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# 1. THE KEYPAD AND ITS OPERATION

To ensure correct operation of your security system it is essential to familiarize yourself with the use of the keypad.

## 1.1 DESCRIPTION OF THE KEYPAD LEDS

A description of the functions of the various leds on the keypad is given below.

### 1.1.1 READY LED (RED)

When this is on, the panel is ready to be set. (Note: If a tamper is present this led may still be on).

### 1.1.2 TAMPER LED (RED)

When this is on, the tamper circuit is alarmed. The internal speaker may also be sounding (if fitted).

### 1.1.3 POWER LED (GREEN)

The led is on when mains power is present.  
The led flashes when the mains supply is disconnected and a battery is present.  
The led goes off when no power is present (mains or battery).

### 1.1.4 CIRCUIT LEDs (YELLOW)

There are 8 leds which display the status of each circuit.

CIRCUIT LED CONDITION	CIRCUIT STATUS
ON	CIRCUIT IS BYPASSED
FLASHING ON/OFF	CIRCUIT IS ALARMED
OFF	CIRCUIT IS CLEAR

## 1.2 THE KEYPAD BUZZER

The keypad has an internal buzzer that will sound under the following conditions:

1. When any key is pressed during the entry of codes.
2. Three times in the event of an illegal/incorrect keypad entry.
3. Three times if one or more circuits are alarmed when attempting to set the control panel.
4. To indicate an AC fail or low battery condition.
5. During entry or exit delays.

### 1.3 KEYPAD REMOTE LED FUNCTIONS

The keypad remote LED (if fitted) will display the following information.

KEYPAD LED CONDITION	PANEL STATUS
ON	PANEL SET
OFF	PANEL UNSET

If the keypad enters standby mode, then the LED will also enter standby mode. However, any circuit or keypad activation will return the LED to the correct condition.

### 1.4 THE PANEL'S INTERNAL SPEAKER (If fitted)

This speaker sounds when:

1. The sounder is on.
2. When a chime circuit is alarmed during unset mode.
3. During entry or exit delays.
4. When the tamper circuit is alarmed.

## 2. HOW TO SET THE PANEL

The panel may be set into either of the following modes:

1. FULL SET when leaving home.
2. PART SET when remaining at home.

### 2.1 FULL SET

To FULL SET the panel:

1. Verify that the READY led is on.
2. Press the # key and enter your 4 digit user code. (The default code is 1234). If you enter an incorrect value press the # key and re-enter your code. (If your installer has enabled the quick set feature, you can also set the system by depressing the 1 key for 2 seconds until the keypad beeps).
3. The buzzer will sound on/off for the duration of the exit delay. The setting process has started.
4. Leave immediately only via the designated entry route and exit/entry circuits. The circuit status will be indicated for the duration of the exit delay.

## 2.2 PART SET (SETTING WHILE AT HOME)

To PART SET the panel:

1. Verify that the READY led is on.
2. Make sure the front door is closed.
3. Enter your user code.
4. DO NOT open the front door.
5. Any PART SET circuits will be automatically bypassed. Once the panel is PART SET, ensure that you only enter those circuits that are bypassed.
6. The keypad buzzer will sound on/off for the duration of the exit time.

**Note:** See section on how to program PART SET circuits and section on how to program DELAYED ALARM circuits. It is important to set the entry/exit circuit (front door) as a DELAYED ALARM circuit if you expect anyone to enter after the alarm has been PART SET (usually later at night).

## 2.3 QUICK PART SET

To PART SET the panel quickly:

1. Verify that the READY led is on.
2. Press the # key once then depress the 5 key for 2 seconds until the keypad beeps.
3. The leds will extinguish and any PART SET circuits will be automatically bypassed.
4. The panel is now PART SET. Ensure that you only enter those circuits that are bypassed.

**Note:** See section on how to program PART SET circuits and section on how to program DELAYED ALARM circuits. It is important to set the entry/exit circuit (front door) as a DELAYED ALARM circuit if you expect anyone to enter after the alarm has been PART SET (usually later at night).

## 2.4 PART SET (WITH ENTRY/EXIT POINT)

Allows you to set the alarm, exit the premises and set into the PART SET mode. This is useful when exiting while someone stays at home.

1. Verify that the READY led is on.
2. Press the # key once then depress the 6 key for 2 seconds until the keypad beeps.
3. The keypad buzzer will sound on/off for the duration of the exit time. Any PART SET circuits will be automatically bypassed. The setting process has started.
4. Leave immediately only via the designated entry route and entry/exit circuits.



## **3. PROBLEMS WHEN SETTING THE PANEL**

### **3.1 THE PANEL WILL NOT SET WHEN YOU ENTER YOUR CODE!**

#### **3.1.1 IS THE CODE CORRECT?**

If you enter the wrong code, the keypad buzzer will beep three times.

#### **3.1.2 IS THE READY LED ON?**

If the ready led is not on, then one or more circuits are alarmed. The corresponding circuit leds will be flashing. Check these circuits to see that all windows and doors that have sensors are properly secured.

**Note:** Bypassing circuits which are alarmed will also create a READY condition.

#### **3.1.3 HAS THE ENGINEER'S RESET CODE BEEN ENABLED?**

If the engineer's reset code has been enabled, the panel cannot be set again after an alarm condition has occurred until your installer has reactivated it.

#### **3.1.4 DOES THE SOUNDER ACTIVATE BEFORE YOU EXIT?**

Either the exit time is too short (ask your installer to increase the exit time) or you have not left via an entry route (avoid these circuits in future, or if this is impractical, have your installer change the circuit to an entry route).

#### **3.1.5 IS THE TAMPER LED ON?**

If the tamper led is on, the panel will not set. If the tamper is removed, entry of a valid user code will clear this condition. If the tamper led does not extinguish, it means that there is still a tamper condition. In this event contact your alarm installer.

## **4. HOW TO UNSET THE PANEL**

If you are entering the premises from outside:

1. Enter **ONLY** via the ENTRY/EXIT circuit and then go directly to the keypad.
2. Upon entering, the keypad will “beep” to indicate that the entry time has started.
3. Enter **#** followed by your 4 digit user code. The keypad will stop beeping.
4. The panel is now unset.

If you are **INSIDE** the home and need to unset:

1. Go directly to the keypad and enter your user code.
2. The panel is unset.

If either circuits were bypassed and/or an alarm condition occurred while the system was set, the alarm memory will be displayed immediately after the system is unset. Alarmed circuits will be indicated by flashing circuit leds and bypassed circuits will be indicated by circuit leds being permanently on. The alarm memory may be cleared by pressing the **#** key.

## **5. PROBLEMS WHEN UNSETTING THE PANEL**

### **5.1 THE SOUNDER ACTIVATES IMMEDIATELY UPON ENTRY.**

Either, you have not entered via the entry/exit circuit or you have entered whilst the panel is PART SET. (Have the entry/exit circuit programmed as a DELAYED ALARM circuit).

### **5.2 THE SOUNDER ACTIVATES BEFORE YOU GET TO THE KEYPAD.**

Either you have entered an alarm circuit or you have exceeded the entry time.

### **5.3 THE PANEL WILL NOT UNSET.**

By now, the sounder may have also been activated.  
Check that your user code is correct.

## **6. SETTING AND UNSETTING USING A KEYSWITCH**

This option is NOT standard. Check with your installer to verify installation.

To SET the panel:

1. Before leaving, check that the READY led is on. (If not, see section 3 on PROBLEMS WHEN SETTING).
2. Leave and close the door.
3. Turn the key-switch to the set position.
4. The panel will set.

To UNSET the panel:

1. Turn the key-switch to the unset position.
2. The panel will unset.

## 7. HOW TO RESET THE SYSTEM

If an alarm has been triggered during a set period, then normally when a user code is entered, the circuit which caused the alarm will be indicated on the keypad leds. To reset the panel, press the # key.

If at this point, the Ready and Tamper leds begin to flash, then your installation engineer has programmed your panel for Managed Reset.

### 7.1 MANAGED RESET

1. To reset the panel in this case you must take note of the 6 digit number generated by the panel (using the method in steps 2 - 6 below).
2. Splitting the circuit leds on the keypad into two sets of four (1-4 & 5-8), determine the two least significant digits by referring to the table overleaf. (Least significant digit from leds 1-4).
3. Press the \* key to move to the next two digits.
4. Using the same method as step 1 above, determine the next two digits.
5. Press the \* key to move to the next two digits.
6. Again, using the method in step1, determine the two most significant digits (leds 5-8 will give the most significant digit).
7. Pass this number to either your monitoring station or installation company.
8. They will give you a 6 digit reset code.
9. Enter this code using your keypad.
10. When the correct code is entered, the keypad will give a long beep and return to normal unset mode.
11. Entry of an incorrect 6 digit code will cause an error beep and return to the first two digits of the displayed number.

If the # key is pressed at any point of the above procedure, the keypad will return to displaying the first two digits.

Your contact telephone number is

LED PATTERN	DIGIT	LED PATTERN	DIGIT	LED PATTERN	DIGIT
1 5 ○ 2 or 6 ○ 3 7 ○ 4 8 ○	<b>0</b>	1 5 ● 2 or 6 ○ 3 7 ○ 4 8 ○	<b>1</b>	1 5 ○ 2 or 6 ● 3 7 ○ 4 8 ○	<b>2</b>
1 5 ● 2 or 6 ● 3 7 ○ 4 8 ○	<b>3</b>	1 5 ○ 2 or 6 ○ 3 7 ● 4 8 ○	<b>4</b>	1 5 ● 2 or 6 ○ 3 7 ● 4 8 ○	<b>5</b>
1 5 ○ 2 or 6 ● 3 7 ● 4 8 ○	<b>6</b>	1 5 ● 2 or 6 ● 3 7 ● 4 8 ○	<b>7</b>	1 5 ○ 2 or 6 ○ 3 7 ○ 4 8 ●	<b>8</b>
1 5 ● 2 or 6 ○ 3 7 ○ 4 8 ●	<b>9</b>				

### Example

The first display shows leds 2,3 and 7 on.

From the table above, this gives digits 6 and 4 (6 being the least significant).

Pressing the \* key shows leds 5 & 8 on.

From the table above, this gives digits 0 and 9.

Pressing the \* key shows leds 1,2,3 & 5 on.

From the table above, this gives digits 7 and 1 (1 being the most significant).

Re-arranging these digits into the correct order gives a code of 179046.

## **8. HOW TO BYPASS A CIRCUIT**

The term BYPASS is used to describe a circuit that has been de-activated. Any activations of a bypassed circuit will be ignored by the panel, even when set.

To BYPASS a circuit(s):

1. Press the \* key followed by the key number corresponding to the circuit you need to bypass. E.g. the **2** key if you wish to bypass circuit 2.
2. The relevant circuit led will be on continuously to indicate that the circuit is now bypassed.
3. Repeat steps 1 and 2 to bypass any other circuits.

Note 1: Once the panel is set, it is not possible to bypass or un-bypass a circuit.

Note 2: Some circuits may have been programmed for other functions by the installer (for example Panic circuits). These circuits cannot be bypassed.

## **9. HOW TO UN-BYPASS A CIRCUIT**

An active circuit is termed an UN-BYPASSED circuit.

To UN-BYPASS a circuit(s):

1. Press the \* key followed by the key number corresponding to the currently bypassed circuit. (If the circuit is clear at this point, pressing only the \* key will un-bypass).
2. The circuit led will extinguish. The circuit is now un-bypassed i.e. active. (If the circuit led flashes on/off, the circuit is still alarmed).

## **10. HOW TO SILENCE THE SOUNDER**

The sounder will activate under the following conditions:

1. When a panic or 24hr alarm is initiated (set or unset).
2. A normal alarm is activated (set only).

To stop the sounder activating enter your 4-digit user code. If the sounder is not cancelled, it will stop automatically after the SOUNDER TIME OUT period.

## 11. SPECIAL KEYPAD FUNCTION KEYS

There are four keys at the bottom of your keypad. The function of these keys is explained below.

### 11.1 PANIC ALARM (P)

Holding down the **P** key on the keypad for 1 second activates a PANIC ALARM (if programmed).

If you have additional FIXED PANIC buttons or REMOTE PANIC buttons, pressing either of these will also activate a PANIC ALARM.

In all of the above situations a special PANIC REPORTING CODE can be sent to the monitoring company.

**This is a high priority condition so DO NOT use this feature unnecessarily.**

If the audible panic option has been programmed, then the sounder, strobe and internal speaker (if fitted) will activate.

### 11.2 FIRE ALARM (F)

Holding down the **F** key on the keypad for 1 second activates a FIRE ALARM (if programmed).

A pulsed sounder, strobe and pulsed internal speaker (if fitted) will activate. Fire alarms are always audible.

The alarm auxiliary output will be triggered.

### 11.3 MEDICAL ALARM (M)

Holding down the **M** key on the keypad for 1 second activates a MEDICAL ALARM (if programmed).

The sounder, strobe and internal speaker (if fitted) will activate. Medical alarms may be audible or silent, depending on the programming.

The alarm auxiliary output will be triggered.

### 11.4 MODE KEY

Your panel may have been programmed to require the **MODE** key to be pressed at the same time as any of the above.

## 12. USER PROGRAMMABLE FUNCTIONS

### 12.1 CHIME MODE

The chime mode allows you to monitor certain nominated circuits when the panel is unset. The keypad buzzer and the internal alarm speaker (if fitted) will beep rapidly for a short period if a chime circuit is alarmed - the sounder will **not** sound.

#### 12.1.1 HOW TO PROGRAM THE CHIME MODE

1. Hold the **2** key down for two seconds.
2. The buzzer will sound briefly and the READY and TAMPER leds will flash on/off together to show that the panel is in the (chime) programming mode.
3. To select any circuit for CHIME, press the key corresponding to that circuit. The circuit led will be on constantly.
4. To de-select a circuit, press the corresponding key again. The circuit led will extinguish.
5. Press the **#** key to exit the chime programming mode. (If no key is pressed for 60 seconds the chime mode will be exited automatically).

**Note:** To de-select a chime circuit, repeat the above steps and make sure that the circuit led is off.

### 12.2 PROGRAMMING THE PART SET (AT HOME) MODE

#### 12.2.1 PART SET CIRCUITS

PART SET circuits are those that are bypassed automatically when the panel is PART SET. In the PART SET mode, you will remain at home while the panel is set. To avoid triggering the alarm circuits, such as the bedrooms or other areas which require access, they must be bypassed. This is done automatically when you set, but you need to program these circuits (once only) before you use the PART SET mode.

## 12.2.2 HOW TO PROGRAM "PART SET" (AT HOME) CIRCUITS

To program circuits as PART SET circuits:

1. Ensure that the panel is unset and that no circuits are alarmed.
2. Hold the **3** key down for 2 seconds. (The keypad will "beep" and the ready and tamper leds will flash together).
3. Now select the circuits that you require to be PART SET circuits by pressing the key corresponding to the circuit number. The PART SET circuits will be indicated by the corresponding circuit leds being on permanently. (Note: Any DELAYED ALARM circuits that have been programmed will be indicated by flashing circuit leds).
4. Press the **#** key to exit this mode.

## 12.2.3 HOW TO CANCEL A "PART SET" CIRCUIT

It may become necessary to clear or de-select a PART SET circuit. For example, a bedroom may become unused and may need to be protected during PART setting.

To deselect a PART SET circuit:

1. Ensure that the panel is unset.
2. Hold the **3** key down for 2 seconds. (The keypad will "beep" and the ready and tamper leds will flash together).
3. The PART SET circuits will be indicated by circuit leds being on permanently.
4. Cancel the circuit or circuits concerned by pressing the key corresponding to the circuit number.
5. Press the **#** key to exit this mode when completed.

**Note:** The control panel will automatically exit this mode after 60 seconds if no keys are pressed.



## 12.3 DELAYED ALARM CIRCUITS.

DELAYED ALARM circuits can be used when PART SETTING (setting while staying at home). It is advisable to program DELAYED ALARM circuits if you are likely to accidentally trigger these circuits.

A DELAYED ALARM circuit (when triggered) will cause the keypad to “beep”. Your user code must be entered within 30 seconds, or an alarm condition will be created. This feature prevents false alarms and sounder noise, yet allows full protection against intruders.

### 12.3.1 HOW TO PROGRAM “DELAYED ALARM” CIRCUITS

To program circuits as DELAYED ALARM circuits:

1. Ensure the panel is UNSET and no circuits are alarmed.
2. Hold down the **4** key for 2 seconds. (The keypad will “beep” and the ready and tamper leds will flash together).
3. Now select the circuits that you require to be DELAYED ALARM circuits by pressing the key corresponding to the circuit number. The DELAYED ALARM circuits will be indicated by the corresponding circuit leds being on permanently. (Note: Any PART SET circuits that have been programmed will be indicated by flashing circuit leds).
4. Press the **#** key to exit this mode.

### 12.3.2 HOW TO CANCEL A “DELAYED ALARM” CIRCUIT

To deselect a DELAYED ALARM circuit:

1. Ensure that the panel is unset.
2. Hold the **4** key down for 2 seconds. (The keypad will “beep” and the ready and tamper leds will flash together).
3. The DELAYED ALARM circuits will be indicated by circuit leds being on permanently.
4. Cancel the circuit or circuits concerned by pressing the key corresponding to the circuit number.
5. Press the **#** key to exit this mode when completed.

**Note:** The control panel will automatically exit this mode after 20 seconds if no keys are pressed.

## 12.4 ADDING OR CHANGING USER CODES

This can only be done by the Master User.

### 12.4.1 ENTERING NEW AND CHANGING OLD CODES

The **PI-8** Alarm Panel has 16 programmable user codes:

CODE 1	The master user code.
CODES 2 to 15	General user codes.
CODE 16	Duress code.

To enter a new code or change an existing code:

1. Ensure that the panel is unset.
2. Hold the \* key down for two seconds (until the keypad “beeps”).
3. The READY and TAMPER LEDs will flash alternately, indicating that the panel is now ready to program user codes.
4. Enter the master user code (code 1) and then the \* key. (The default master user code is 1234).
5. The READY and TAMPER LEDs will now flash on and off together indicating that the correct master code was entered. If the wrong code is entered, the keypad will beep three times.
6. Enter the number (1 to 16) of the user code which you wish to enter or change and press the \* key.
7. Now enter the new code (4 digits) and press the \* key. The keypad will give a long beep to indicate the entry of a valid code.
8. Repeat steps 6 and 7 if you wish to enter or change other user codes.
9. Once all of the user codes have been programmed, press the # key to exit.

Note: All codes must be 4 digits long.

To clear a user code, follow steps 1 - 6 above, but instead of entering a 4 digit code at step 7, press the \* key. That particular user code will be deleted.

### 12.4.2 USER CODE TABLE

Enter your codes in this table and keep in a safe place.

USER NO.	CODE	USER
1	1234	DEFAULT MASTER CODE
1		NEW MASTER CODE
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		DURESS CODE

### 12.4.3 THE DURESS CODE (USER CODE 16)

The duress code is a special 4-digit user code that is only used in the unique situation where an intruder forces a user to unset the panel "under duress". When the duress code is entered the control panel unsets normally, however, a DURESS REPORTING CODE is transmitted to the monitoring station to inform them that a user has been forced to unset the control panel by an intruder. If a duress code is entered in the unset condition, a DURESS REPORTING CODE is again transmitted.

It is advisable to choose a code that can be easily remembered by all family (or staff) members.

## 13. EVENT LOG

The PI-8 control panel has a 300 event memory, these events are stored in non volatile memory and can not be erased, nor will they be lost in the event of a complete power loss to the panel.

To display the alarm memory proceed as follows:

1. Hold down the **0** key for three seconds.
2. The following combinations of indicators will show the type of event which has occurred:

EVENT TABLE	
KEYPAD LEDS STATUS	EVENT TYPE
READY LED on	Circuits bypassed during a set cycle
READY and TAMPER LEDs on	Circuits alarmed during a set cycle
READY LED flashing	Circuits bypassed during a part set cycle
READY and TAMPER LEDs flashing	Circuits alarmed during a part set cycle
POWER LED on	Mains failure
POWER LED flashing	Low battery
TAMPER LED on	Tamper
TAMPER LED flashing	Panic
POWER and TAMPER LEDs flashing	Duress

In addition to the above, any circuit LEDs show which circuits were bypassed/alarmed.

3. Press the \* key to scroll back through the events.
4. Press the # key to exit this mode. If the # key is not pressed and there are no further key strokes this mode will timeout in 15 seconds.

### Example

1. Ensure that the panel is not set.
2. Hold down the **0** key for three seconds.
3. e.g. The READY, TAMPER, CIRCUIT 1 and CIRCUIT 2 LEDs were on.  
This combination of LEDs means that circuits had alarmed during a set cycle (READY and TAMPER LEDs), while the circuit 1 and circuit 2 LEDs show that circuits 1 and 2 were the circuit which alarmed.
4. Press the \* key to advance to the next entry in the event log.
5. e.g. The POWER LED was flashing.  
This would indicate that prior to the event indicated in point 3 above a low battery condition was detected.
6. Repeat step 4 until all events have been viewed.
7. To exit this mode press the # key.

## 14. TROUBLE CONDITIONS

In the event of a trouble condition occurring, the POWER LED will flash on and off. To determine what has happened, press and hold the **7** key for 2 seconds and check the entries in the table below for permanently on circuit LEDs.

LED	TROUBLE CONDITION
1	The system's 24hr clock has been lost.
2	Communication failure.
3	Mains power failure.
4	Low battery.
5	Telephone line monitoring failure.
6	The auxiliary supply fuse (F4) is damaged.
7	The sounder fuse (F1) is damaged.
8	The keypad is in a tamper condition.

## 15. TEST MODE

Hold down the **8** for 2 seconds key to enter this mode.

While in the test mode the alarming of any circuit will cause the keypad and the internal speaker to beep.

Press the following keys to test the various aspects of the system.

KEY	ACTION
1	Sounder test (half a second).
2	Keypad buzzer and speaker test.
3	Strobe test (short flash).
4	Pulses all three auxiliary outputs.

Press the **#** key to exit this mode, otherwise it will time out after twenty seconds.

**NOTE: If a problem exists with the panel, please contact your installation company.**





Part Number: 320700-0A