

Installer Notes:

Alert 8 Version **8**  
8 Zone Controller

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Arrowhead  
Alarm Products Ltd

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# Operating Guide

*Please contact your alarm installer if you require further information.*

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## OWNERS DETAILS

**NAME:**.....

**ADDRESS:**.....  
.....  
.....  
.....

**TELEPHONE NUMBER:**.....

**INSTALLERS NAME:**.....

**INSTALLERS CONTACT PH #:**.....

### **ACCESS CODES:**

**Code 1**..... **Code 2**.....  
**Code 3**..... **Code 4**.....  
**Code 5**..... **Code 6**.....  
**Code 7**..... **Code 8**.....  
**Code 9**..... **Code 10**.....

### **ZONE DESCRIPTIONS:**

**Zone # 1**..... **Zone # 2**.....  
**Zone # 3**..... **Zone # 4**.....  
**Zone # 5**..... **Zone # 6**.....  
**Zone # 7**..... **Zone # 8**.....

EVENT TYPE \ INDICATION	DEVICE	INDICATOR	STATUS
ACTIVATION	Zones 1-8	LED's 1-8	On Steady
EXCLUDE	Zones 1-8	READY/EXCL LED's 1-8	On Steady On Steady
DETECTOR TAMPER (SHORT CIRCUIT)	Zones 1-4	TROUBLE LED's 1-4	Flashing On Steady
DETECTOR TAMPER (OPEN CIRCUIT)	Zones 5-8	TROUBLE LED's 5-8	Flashing On Steady
CABINET TAMPER	Cabinet or Satellite Siren	TROUBLE	Flashing
LOW BATTERY	Controller Battery	SYSTEM LED 1	On Steady On Steady
MAINS FAILURE	Controller Mains Supply	SYSTEM LED 2	On Steady On Steady
RADIO ZONE LOW BATTERY	Radio PIR Zone 1-8	LED's 1-8	Flashing
PENDANT LOW BATTERY	Radio Key User 1-8	TROUBLE LED's 1-8	On Steady Flashing
PANIC BUTTON (or BUTTONS 1&3 PRESSED TOGETHER)	Keypad Panic	SYSTEM	Flashing
FIRE ALARM (BUTTONS 4&6 PRESSED TOGETHER)	Keypad Fire	SYSTEM AREA A	Flashing Flashing
MEDICAL ALARM (BUTTONS 7&9 PRESSED TOGETHER)	Keypad Medical	SYSTEM AREA B	Flashing Flashing
PENDANT PANIC	Radio Key User 1-8	SYSTEM LED 1-8	Flashing Flashing
ARMED A	Area A is Armed	AREA A	On Steady
ARMED B	Area B is Armed	AREA B	On Steady
MONITOR MODE A	Area A Monitor Mode ON	AREA A	Flashing
MONITOR MODE B	Area B Monitor Mode ON	AREA B	Flashing
DURESS ALARM	Duress Alarm	TROUBLE AREA A & B	On Steady Flashing
SUPERVISED RADIO ALARM	Supervised Radio Passive Infra-Red	SYSTEM TROUBLE LED's 1-8	On Steady Flashing Flashing
ZONE INACTIVITY ALARM	Zones 1-8	READY/EXCL TROUBLE LED's 1-8	On Steady On Steady On Steady

## INTRODUCTION

### ABOUT YOUR ALARM

Thank you for choosing to protect your premises with the **Alert 8 (also called PowerWave8 or PW8)**. In doing so you have invested in the most advanced and adaptable panel on the market.

**Two Separate Alarm Panels:** Your Alert 8 can operate as two totally independent alarms. These independent 'AREAS' can be controlled from one global keypad or from multiple keypads assigned to specific areas.

The Alert 8 has many incredible program options and additional accessories that can enhance the standard features of the panel offering simple "**Home Automation**" to "**Radio control**". Please check with your installer to find out more about these powerful features.

The Alert 8 can communicate with monitoring stations or call you at work, on your cell phone or your pager to warn of intruders.

With the optional voice board fitted you can phone your home to check or change the status of any output using the keys on your phone. Arm or disarm the whole house or just one area, all with your own voice confirming your selections.

The controller will support an 8 LED keypad or the more sophisticated LCD (liquid Crystal Display) keypad.

It also has a comprehensive alarm event memory that stores all of the controller activity with the time and date. The event memory is accessible from both keypads but the time & date information can only be displayed via the LCD keypad.

# OPERATING YOUR ALARM

## GENERAL INFORMATION

Your PW8 Alarm Controller has been designed with you the user in mind. Clearly named backlit keys mean you don't have to remember complicated key combinations to achieve a result. As with everything about the PW8 even key functions can be fine tuned to your specific needs. Please ask your installer.

## ARMING THE ALARM

Arming the alarm will turn on all detectors in the Area or Areas being Armed. To Arm the alarm press;

**<ARM>**  
*Area A,B or both, armed LED's will turn ON or*  
**<CODE><ENTER>**  
*Area A,B or both, armed LED's will turn ON or*  
**<ARM><CODE><ENTER>**  
*Area A,B or both, armed LED's will turn ON.*

The panel has three different Arming modes and the methods of Arming are detailed above. The installer will advise you on how they have configured your particular alarm.

## DISARMING THE ALARM

Disarming the alarm will turn off all detectors in the Area or Areas that were Armed. To Disarm the alarm press;

**<CODE><ENTER>**  
*Area A,B or both, armed LED's will turn OFF.*

There is also a special feature that can be set by your installer to allow the pressing of the **<ARM>** button during the Exit Delay time to Disarm the alarm. This feature is to allow a quick disarm if you have forgotten to do something prior to Arming the alarm. The feature is disabled when the alarm is fully armed following expiry of the exit delay time.

set.

If the "SYSTEM" LED continues flashing, this indicates that a system alarm is still active and has not reset.

**Note:** To stop the memory display function press "ENTER". Each event is separated by a beep tone.

## CURRENT SYSTEM ALARMS

When viewing the memory event buffer at the keypad by pressing the <MEMORY> button, the first thing that will always be displayed are the "Current System Alarms" that are still present. The Current System Alarms are indicated by the SYSTEM LED being on plus a zone LED from 1-8 that indicate the current system alarm/s present. If no Zone LED's are on at this time, it means that there are no current system alarms. If a zone LED or LED's are On then this indicates system alarms that have not yet cleared. The zone LED's 1-8 are pre-defined as to what system alarm they will display. These system alarm indications are shown in the table below. Following the display of current system alarms the panel will then sequence through the 127 historical memory events starting at the most recent event. The second table shows the alarm events that can be displayed in memory mode and what indicators are used to show them

CURRENT SYSTEM ALARMS			
LED #1	Battery Low	LED #5	Radio Pendant Battery Low
LED #2	Mains or 12V Fuse Failure	LED #6	Supervised Detector Failure
LED #3	N/A	LED #7	Zone Inactivity Timeout
LED #4	Radio Detector Battery Low	LED #8	N/A

## USER FUNCTIONS

### STARTING WALKTEST MODE

While in *CLIENT* mode a User with the proper authority can start walk-test mode. This special mode latches the alarm signals from detectors at the keypad display so that one person can trigger every detector connected to the alarm then return to the keypad to verify operation. On terminating Walk-test mode the test results are put into the memory buffer so they can be viewed at a later time.

To start Walk-test mode while in *CLIENT* mode press;

**<PROGRAM> <627> <ENTER>**

(The keypad buzzer will beep at 1 second intervals)

Next trigger every detector connected to the panel then return to the keypad and all of the zones that were triggered will be displayed at the keypad.

To terminate Walk-test mode press;

**<ENTER>**

The keypad will stop beeping and automatically exit *CLIENT* mode.

## MEMORY DISPLAY MODE

### VIEW MEMORY MODE

The alarm panel has an event memory which stores the most recent events (up to 127). The events include all alarm events, all system events such as mains failure, etc as well as arming by Area. This event memory can be displayed via the standard LED or LCD keypads. The events are displayed with the most recent event shown first and subsequent events following in descending order from newest to oldest.

The "SYSTEM" or "TROUBLE" LED's will flash, on the LED keypad, when there is a new event in memory which has not been viewed. To stop these LED's from flashing, simply press the <MEMORY> button and the events will be flashed back to you with the most recent event shown first. When the display has shown all events in memory or the "ENTER" button is pressed, the flashing LED's will turn off.

If the "TROUBLE" LED stops flashing but stay on permanently, this indicates that a tamper alarm has occurred but the condition has not been re-

### ARMING IN STAY MODE

Stay mode allows you to Arm a pre-selected part of the building. Stay mode can be used in a residential application to arm parts of the house that you will not need to go into at night time or in a commercial application to allow monitoring of an unattended shop front. The Stay mode alarm can be in the form of a full alarm or possibly a small buzzer (Chime) to warn of activity in the stay mode coverage area. To arm Stay mode press;

**<STAY>**

*Area A,B or both, armed LED's will FLASH or*

**<STAY><CODE><ENTER>**

*Area A,B or both, armed LED's will FLASH.*

The panel has two different Stay arming modes and the methods of Arming are detailed above. The installer will advise you on how they have configured your particular alarm.

Once Stay mode has been Armed, the normal exit delay will apply and if a zone is triggered the normal entry delays will also apply. If, however you press the <ENTER> button following Arming of Stay mode, this will cancel the exit delay so the system is armed immediately and also cancel ALL entry delay times so all zones will become Instant alarm zones. This allows you to select whether you wish the Stay Mode to Arm with or without delays every time you arm this mode.

### DISARMING STAY MODE

Disarming Stay Mode will turn off all Stay Mode detectors in the Area or Areas that were Armed. To Disarm Stay Mode press;

**<STAY>**

*Area A,B or both, armed LED's will turn OFF or*

**<CODE><ENTER>**

*Area A,B or both, armed LED's will turn OFF.*

The single button disarm of stay mode indicated above is a programmable option so you will need to check with your installer how your system has been configured.

## **BYPASSING ZONES**

This key allows you to temporarily by-pass zones of your choice prior to arming your panel. The bypassed zones will go back to normal the next time you disarm the panel unless they are 24 hour zones. A 24 hour zone will remain bypassed permanently until the bypass is manually removed. To bypass a zone follow the instructions below.

***To bypass zone 1, key in the following sequence:***

**<BYPASS>**

Bypass LED will turn ON.

**<1>**

Zone 1 LED will turn ON.

**<ENTER>**

Bypass LED will now FLASH.

While in the Bypass mode it is possible to Bypass more than one zone. The example below details how this is done.

***To bypass zones 1,5 & 8, key in the following sequence:***

**<BYPASS>**

Bypass LED will turn ON.

**<1,5,8>**

Zone LED's 1,5 & 8 will turn ON.

**<ENTER>**

Bypass LED will now FLASH.

**NOTE: Zones and keypads can be assigned to one or all of the three possible Areas available in the PW 8. If you are trying to Bypass a zone that is in an Area NOT assigned to your keypad, the panel will not allow you to bypass that zone.**

If you are using an LCD keypad to Bypass zones, the Bypass button works the same as the LED keypad but the display shows the numbers as entered e.g. in the example above as you press "1", the display will show "01", then if you enter "5", the display will show "01" & "05" on the display and finally as you enter "8" the display will show all three numbers on the screen. The LCD keypad will show up to 5 two digit numbers then if you need to bypass more zones it will alternate the display with the first 5 selections then the next 5, switching between displays at about a 1 second rate.

**<CONTROL> followed by <PROGRAM>**

The program LED will flash to indicate the disable function is active  
To re-enable the Day (Chime) Zone monitoring press;

**<CONTROL> followed by <PROGRAM>**

The program LED will turn off to indicate the Day (Chime) zones are active

To Disable the Day (Chime) Zone Monitoring at an LCD keypad press;

**<CHIME>**

The LCD display will read "CHIME OFF"

The Display will timeout after 20 seconds back to the normal display or you can press the <ENTER> button to go back to the normal display.

To re-enable the Day (Chime) Zone Monitoring at an LCD keypad press;

**<CHIME>**

The LCD display will read "CHIME ON"

The Display will timeout after 20 seconds back to the normal display or you can press the <ENTER> button to go back to the normal display.

## SPECIAL CONTROL BUTTON FUNCTIONS

The <CONTROL> button on the keypad has a number of uses depending on the options set by your installer.

It can be used to disable Day-zone alarms (Chime) or directly control any of the outputs from the keypad.

The operation of the various <CONTROL> button functions (if enabled by the installer) are detailed below;

### DIRECTLY CONTROLLING an OUTPUT

To directly control outputs from the LED or LCD keypads press;

<CONTROL>

**(Note: The LCD Control Button must be held for 2 seconds)**

The "System" and "Control" LED's will turn on at the LED keypad to indicate the function is selected, the LCD display will show;



Now by pressing any of the buttons from 1-8 (your installer has to allow the outputs to be directly controlled otherwise you cannot turn them On or Off at this point), the appropriate output number will be displayed at either keypad indicating that it has been turned on. Pressing the same number again will turn the output number being displayed off, indicating the output is now off.

When finished, press the <ENTER> button to exit the direct output control mode.

### DISABLE DAY (CHIME) MODE ALARMS

Any detector on your PW8 can be programmed to trigger a buzzer or chime at your keypad/s when movement is detected. These are called Day (Chime) Zones. They can be programmed into the system by your installer. Your installer can also give you the ability to disable the Day (Chime) Zone monitoring via the keypad when it is not required.

To Disable the Day (Chime) Zone Monitoring at an LED keypad press;

## MANUAL PANIC, MEDICAL & FIRE ALARMS

There are three special Manual Alarms that may be triggered from the keypads. These are a "PANIC", "FIRE", and "MEDICAL" alarm. When using the LED keypad the Panic alarm can be generated by either the single "Panic" button or by the simultaneous operation of two buttons. The Fire and Medical alarms are generated by pressing two buttons simultaneously. On the LCD keypad there is no dedicated Panic button so the three manual alarms are generated by pressing two buttons simultaneously. The special button combinations and the alarms they generate are shown in the table below;

KEYPAD TYPE	PANIC ALARM	FIRE ALARM	MEDICAL ALARM
LED KEYPAD	<PANIC> <1> & <3>	<4> & <6>	<7> & <9>
LCD KEYPAD	<CHIME> & <CONTROL>	<A> & <B>	<B> & <CHIME>

### RESETTING ALARMS

In case of an alarm condition,

pressing your <CODE> then <ENTER>

will reset the alarm and turn off any audible sirens. If your code does not reset the alarm it means that the alarm occurred in an Area either not assigned to the keypad you are using or your code is not allowed to reset alarms in that area.

**NOTE:** If at any stage you make an error when entering a code all you need to do is press the <ENTER> button to reset the keypad and start again.

# PROGRAMMING YOUR ALARM

## GETTING INTO PROGRAM MODE

There are 2 levels of program mode, *CLIENT* mode and *INSTALLER* mode. Normally the installer will give you access to the *CLIENT* mode so you can add, delete, or change the user codes. At your request, your installer can provide you with access to the *INSTALLER* mode as well. In *CLIENT* mode you can program up to 10 individual User Codes that may be from 1-6 digits in length. Each of the 10 Users can be assigned NO access, LIMITED access or FULL access to *CLIENT* mode. The level of access is tailored by the installer. Full access allows the User to display and change all access codes, change the panel time & date, change telephone numbers and initiate Walk-test mode. All of these things can be explained in detail by your installer.

To get into *CLIENT* mode provided the system is NOT armed press;

**<PROGRAM> <CODE> <ENTER>**

Program LED with turn ON

If you get a single long beep at this point and the Program LED doesn't turn on, it means your code cannot access Program mode.

## EXITING PROGRAM MODE

To exit out of program mode press;

**<PROGRAM> <ENTER>**

Program LED will turn Off

## ADDING OR DELETING A USER CODE

Once in *CLIENT* mode, to program a User code you enter the User code address (a value from 1-10) then the new code. For example to program User # 3 with a code "2580", key in the following sequence:

**<PROGRAM> <3> <ENTER> <2580> <ENTER>**

(If there is an existing code already at that address it will be flashed back on the keypad display. Entering the new code will delete the old and the new code will be flashed back to you).

The panel will give 3 short beeps to indicate correct entry or 1 long tone if

not accepted.

To remove or clear an existing user code, e.g user 3, key in the following sequence

**<PROGRAM> 3 <ENTER><BYPASS><ENTER>(LED Keypad)**  
**<PROGRAM> 3 <ENTER><CONTROL> then 0 <ENTER>(LCD Keypad)**

Address 1 = User # 1, 2 = User# 2 to 10 = User# 10.

(Note: on the LED keypad "0" is indicated by LED "A" and "9" by LED "B")

## PROGRAMMING THE TIME & DATE

The alarm system has an internal clock that is displayed on an LCD keypad and used to identify when events occurred in memory via the LCD keypad. Should you need to change the Time & Date it must be done from *CLIENT* mode.

To change the Time & Date press;

**<PROGRAM> <401> <ENTER> <HHMM> <ENTER>**

Where HH = Hour in 24 Hour Format and MM = Minutes

**<PROGRAM> <403> <ENTER> <1-7> <ENTER>**

Where 1-7 = the current day (1=Sun, 2 = Mon to 7 = Sat)

**<PROGRAM> <405> <ENTER> <1-31> <ENTER>**

Where 1-31 = the current date

**<PROGRAM> <406> <ENTER> <1-12> <ENTER>**

Where 1-12 = the current month

**<PROGRAM> <407> <ENTER> <YY> <ENTER>**

Where YY = current year, e.g. 02=2002