SERVICING NOTES:

Please contact your alarm installer if you require further information.
About your Alarm Controller

Thank you for choosing to protect your premises with a PowerWave-16 (PW-16). In doing so you have invested in the most advanced and adaptable panel on the market.

As you become familiar with your PW-16, ask your installer about the incredible program options and additional expandability of your PW-16 Alarm Controller.

Your new panel in standard trim is ready to give you years of trouble free operation and can be custom programmed to your specific needs. “But wait there’s more”. Home Automation

The PW-16 is ready when you are to utilise the outputs on the panel. These can be used in conjunction with the real-time clock or the keypad to [CONTROL] outdoor lighting, water heating or even your doors for access control.

Add on features like the RX-40 wireless receiver card to operate any of the 8 outputs and the arm / disarm of your panel with up to 24 Remote Controls.

Make use of the unique Voice Board option and open up a whole new level of flexibility with Telephone Control.

In basic trim your panel is ready to communicate with monitoring stations and call you at work on your cell phone or pager generating alarm tones.

Add the Voice Board and your panel will call you with alarm messages in your own voice.

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.

Imagine turning on the spa before leaving work so it is hot when you get in the door. The under-floor heating has just automatically switched on using the on board timer and you have just opened the rollerdoor and disarmed the garage from your cell phone so the white ware repairman can work on your washer.

Telephone Control: operating instructions:

<table>
<thead>
<tr>
<th>OUTPUTS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output 1</td>
</tr>
<tr>
<td>Output 2</td>
</tr>
<tr>
<td>Output 3</td>
</tr>
<tr>
<td>Output 4</td>
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<tr>
<td>Output 5</td>
</tr>
<tr>
<td>Output 6</td>
</tr>
<tr>
<td>Output 7</td>
</tr>
<tr>
<td>Output 8</td>
</tr>
</tbody>
</table>

| Siren Time: ____ (minutes) |

<table>
<thead>
<tr>
<th>COMMUNICATION OPTIONS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitoring ☐ Domestic ☐ Speech ☐</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SERVICING:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Can your system be serviced by another technician?</td>
</tr>
</tbody>
</table>

If yes, Installer Code __________
1) Dial your home from any touch tone phone the panel will pickup the line after your programmed number of rings with a continuous tone for 5 seconds, (fax bypass is also optional).

2) Key your 4 digit code, after the 5 second tone, for the area you wish to control. You can control and confirm the status of your alarm panels 3 separate partitions. Toggle between arm and disarm with the "***" key.

3) Key your 4 digit code for output control after the 5 second tone.
e.g. If your code for output control is 1234 and you wish to turn on output 5. When the panel picks up your incoming call and after the 5 second tone, simply key in 1234 followed by 5. Your voice message will give you the current status of out put 5. To change the status toggle on or off using the "***" key.

4) If you make a mistake at any stage, press the "#" key and re-enter your code.

5) When finished simply hang up and the panel will disconnect automatically after 15 seconds.

The Keypad

Your PW-16 Alarm Controller has been designed with you the user in mind. Clearly named backlit keys may cost a little more but mean you don’t have to remember difficult key combinations to achieve a result. As with everything about the PW-16 even key functions can be fine tuned to your specific needs. Please ask your installer.

The ARM Key

Press this button to arm your system, the Armed light will come on. Your panel will begin beeping it’s exit delay. During this time it is optional to press the [ARM] key again to disarm. (To prevent accidental arming, the panel can be programmed to require a code to arm. To do so enter your code followed by the [ENTER] key).

To disarm, enter your 1 to 6 digit code then press the [ENTER] key.

If your system has the Wireless Receiver installed, your system can also be armed or disarmed with a Remote Control.
The PANIC Key

This special key's function is best programmed by your installer to suit your individual situation. Most commonly it is used in a panic situation to sound only the outside siren and perhaps call a monitoring station. A panic command can be instant or require a 3 second delay to prevent false alarm.

With the optional voice board it can be programmed to call your spouse, friends or a trusted neighbours with a message from you requesting help. (A Panic can also be triggered by a dedicated Monitor Mode Keypad or a Remote Control button programmed as instant or delayed panic).

The CONTROL Key

Another special function key that can be programmed to control a single function. Toggle on or off by pressing the [CONTROL] key (Control LED will illuminate). This key is often used to enable a Chime-zone, (a detector that can be part armed while you are home but working in another part of the building).

In this mode it can be programmed to operate a buzzer to let you know you have a visitor. When the system is fully armed it changes to become a full alarm zone.

In addition, enter your 4 digit Telephone Control code and any of the 5 on board outputs can be operated, if programmed to do so, by pressing the number key that matches the output, toggling on or off. (Zone LED's on the keypad will indicate status of each output).

The STAY Key

‘Stay’ mode allows you to monitor the parts of the house you will not be in at night, to enable you to feel more secure at home. Pre-selected zones or sensors in areas you or your family will not be, can be armed with this key while you are in the building and programmed to go into your choice of alarm states if triggered. As with everything else on the panel this too can be tailored to your needs. For example you may wish to have the detectors in your garage and lounge sound only the little buzzer in the keypad by your bed at night to warn you of an intruder while silently dialling for assistance.

To use this feature press the [STAY] key and the exit delay will sound. The armed light on the keypad will flash.

To disarm, press the [STAY] key again. The PW-16 can be

USER CODES:

1. Code__________   Name_____________________
2. Code__________   Name_____________________
3. Code__________   Name_____________________
4. Code__________   Name_____________________
5. Code__________   Name_____________________
6. Code__________   Name_____________________
7. Code__________   Name_____________________
8. Code__________   Name_____________________
9. Code__________   Name_____________________
10. Code__________  Name____________________
11. Code__________  Name____________________
12. Code__________  Name____________________
13. Code__________  Name____________________
14. Code__________  Name____________________
15. Code__________  Name____________________
16. Code__________  Name____________________
17. Code__________  Name____________________
18. Code__________  Name____________________
19. Code__________  Name____________________
20. Code__________  Name____________________
21. Code__________  Name____________________
22. Code__________  Name____________________
23. Code__________  Name____________________
24. Code__________  Name____________________
Installation Notes:

INSTALLTION COMPANY:

Company __________________________________________

Technician ___________________ Phone ______________

Installation Date _____________

MONITORING COMPANY:

Account Number _______________ Passcode _____________

Phone ________________________

programmed to require your user code and press [ENTER] to disarm.

The BYPASS Key

This key allows you to temporarily Bypass zones of your choice when arming your panel. The Bypassed zones will go back to normal the next time you disarm the panel. A typical example would be if you wanted to let your pet run around in the garage when your system is armed, you could choose to Bypass that detector (say Zone 1) from the system.

To Bypass zone 1, key in the following sequence:

[ARM] [BYPASS] 1 [ENTER]

To Bypass zone 9, key in the following sequence:

[ARM] [BYPASS] [BYPASS] 9 [ENTER]

(When the second exclude is pressed the AUX. light will glow to indicate zones 9 - 16 can now be Bypassed)

It is advisable to vacate the secured area before the exit delay expires.

The ENTER Key

This key is used to accept a series of button presses.

If you make a mistake while entering your code, press the [ENTER] key and start again.

Please note that 4 invalid code entries will cause an alarm activation (the sirens will sound). This is to protect your alarm system against tampering.

The PROGRAM Key

This key is used to get into program mode. There are 2 levels of program mode, USER mode and INSTALLER mode. For your protection, your panel can be programmed to require your master code to allow access installer program mode. The PW-16 can accept as many as 24 different user codes of 1 up to 6 digits in length. Your installer will set you up to enter your master code and from there you can be in charge of adding or removing codes for other family members or staff who you wish to have access.

To add a new user code:

Making sure the panel is not armed, key in the following sequence:

[PROGRAM] mastercode [ENTER]
The program light will come on steady, indicating readiness to accept new programming.

To load, for example, user code 3 with a code 43210, key in the following sequence:

[PROGRAM] 3 [ENTER] 43210 [ENTER]

(If there is an existing code already in that address it will be flashed back on the key pad 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 a user code number 1234 from user 3, key in the following sequence

[PROGRAM] 3 [ENTER] [BYPASS] [ENTER]

To exit out of program mode key [PROGRAM] [ENTER]

To change dialler phone numbers:

Your panel will accept up to 6 phone numbers. Your panel can be be programmed to dial all or any of these depending on the event which has occurred.

(The six phone numbers are at program address 221 through to 226)

Making sure the panel is not armed, key in the following sequence:

[PROGRAM] MASTERCODE [ENTER] followed by [PROGRAM]221 [ENTER]

The current phone number at this address will be flashed back to you on the keypad LEDs. If this is not the number you wish to change try the next address, 222 and so on till you locate the number you wish to change.

Simply key in the new numbers then press [ENTER]

The new numbers will be flashed back to confirm acceptance.

To exit out of program mode key [PROGRAM] [ENTER]

(Note: on the key pad 0 is indicated by LED 'A' and 9 by LED 'B')

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**The MEMORY Key**

Your PW-16 alarm panel has an event memory which stores, the 225 most recent events including all alarm events, all system events such as mains failure etc as well as settings and un-settings. This event memory is displayed via the keypad with the most recent event shown first and subsequent events following in descending order from newest to oldest. Each event is separated by a beep tone.

There are a number of events which are stored in memory which do not have a specific indicator associated with them such as Panic and Duress. Other events such as tampers and low battery are shared across many devices. For this reason the following table has been created. This table details which indicator lights correspond to which events in memory.

To view the event memory, press the [MEMORY] button. To clear flashing memory LED press the [MEMORY] then [ENTER] keys.

### Event Memory Table

<table>
<thead>
<tr>
<th>EVENT</th>
<th>DEVICE</th>
<th>INDICATOR</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTIVATION</td>
<td>Zones 1-8</td>
<td>LED's 1-8</td>
<td>On Steady</td>
</tr>
<tr>
<td>ACTIVATION</td>
<td>Zones 9-16</td>
<td>LED's 1-8</td>
<td>On Steady</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AUX.</td>
<td></td>
</tr>
<tr>
<td>BYPASS</td>
<td>Zones 1-8</td>
<td>BYPASS</td>
<td>On Steady</td>
</tr>
<tr>
<td></td>
<td>Zones 1-8</td>
<td>LED's 1-8</td>
<td>On Steady</td>
</tr>
<tr>
<td></td>
<td>Zones 9-16</td>
<td>BYPASS</td>
<td>On Steady</td>
</tr>
<tr>
<td></td>
<td>Zones 9-16</td>
<td>LED's 1-8</td>
<td>On Steady</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AUX.</td>
<td></td>
</tr>
<tr>
<td>DETECTOR TAMPER</td>
<td>Zones 1-8</td>
<td>TAMPER</td>
<td>Flashing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LED's 1-8</td>
<td></td>
</tr>
<tr>
<td>DETECTOR TAMPER</td>
<td>Zones 9-16</td>
<td>TAMPER</td>
<td>Flashing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LED's 1-8</td>
<td></td>
</tr>
<tr>
<td>CABINET TAMPER</td>
<td>Cabinet or Satellite Siren</td>
<td>TAMPER</td>
<td>Flashing</td>
</tr>
<tr>
<td>LOW BATTERY</td>
<td>Keypad Tamper</td>
<td>TAMPER</td>
<td>On Steady</td>
</tr>
<tr>
<td>LOW BATTERY</td>
<td>Controller Battery</td>
<td>BATTERY</td>
<td>Flashing</td>
</tr>
<tr>
<td>LOW BATTERY</td>
<td>Controller Mains Supply</td>
<td>MAINS</td>
<td>Flashing</td>
</tr>
<tr>
<td>LOW BATTERY</td>
<td>Wireless PIR Zone 1-8</td>
<td>BATTERY</td>
<td>Flashing</td>
</tr>
<tr>
<td>LOW BATTERY</td>
<td>Wireless PIR Zone 19-16</td>
<td>BATTERY</td>
<td>Flashing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LED's 1-8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AUX.</td>
<td></td>
</tr>
</tbody>
</table>