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MESSAGE TO THE INSTALLER

The PowerMax control panel is supplied with 3 instruction manuals:
- Installation Instructions (this manual - for your exclusive use)
- Programming Guide (for your exclusive use)
- User's Guide (for your use during installation only. Must be handed over to the master user after testing the system).

Appendices A and B to the installation instructions will help you prepare an installation plan. Please take time to fill out the forms - your job will become much easier and confusion will be prevented. Filling out the forms will also help you create a list of detectors and transmitters that must be obtained for the particular application. Compatible detectors and transmitters are listed and described briefly in Paragraphs 3.8 and 3.9 of this manual.

Remember - it is advisable to power up the control panel temporarily after unpacking and program it on the work bench, in accordance with the installation plan. Paragraph 3.3 of this manual refers you to the programming guide.

The programming flow charts in the programming guide show all options available for each parameter. Factory defaults are marked with a dark box to their right, and other options (that can be selected instead) are marked by clear boxes. This method allows you to put a checkmark in the appropriate clear box whenever you deviate from the factory defaults.

To increase the backup time provided by the Ni-Cd battery (which is 4 -6 hours), we recommend the use of 6 size AA Ni-Mh cells with a capacity of 1600 mAh (produced by GP). Under AC failure conditions, these batteries provide up to 20-hour backup with no alarms, and up to 16 hours if an alarm occurs.

Although setting the correct time and date is one of the user tasks, we recommend that you set the time and date in the course of programming. Access to the “User Settings” is possible through item 9 on the installer’s menu (see User’s manual for exact procedure).

When you are through programming, proceed to install the system as detailed in the Installation Instructions, from paragraph 3.4 onward.

The installer should verify line seizure. Be aware of other phone line services such as DSL.
1. INTRODUCTION
The PowerMax is a user and installer-friendly, 30-zone fully-supervised wireless control panel. The system is designed to function in a way that appeals to the user but also offers features that make installers' life easier than ever before:

EASY TO INSTALL
- Plug-in terminal blocks can be wired while detached from the unit.
- Quick attach-detach TELCO sockets for telephone line, telephone set and X-10 controller.
- Special wall-mounted bracket permits installation without having to open the unit's cabinet.
- Optional plug-in RS-232 module for local computer.

EASY TO MAINTAIN
- Status, alarm memory and trouble data displayed upon request.
- Diagnostic test provides visual and audible indication of the signal level of each detector.
- Remote control and status verification from distant telephones.
- Event log stores and displays information on 100 past events.
- Upload / download from distant computer via telephone line and modem.

QUICK PROGRAMMING
- Multiple-choice selection of options for each parameter.
- Unequivocal visual prompts and audible signals.
- The installer can gain access to the user menu.

A fully equipped alarm system based on the PowerMax consists of the units shown in Figure 2 of the user's guide.

2. SPECIFICATIONS

2.1 General Data
Number of Zones: 29 wireless, 1 hardwired (zone No. 30).
Hardwired Zone Requirements: 2.2 kΩ E.O.L. resistance (max. resistance of wires 220 Ω).
Zone Types: Interior, perimeter, delay 1, delay 2, 24 hours - audible, 24 hours - silent, fire, non-alarm and emergency.
User Codes: 8 codes, 4 digits each
Control Facilities:  
- Integral keypad,
- PowerCode / Code-Secure™ hand-held transmitters,
- Remote telephone,
- Local or remote computer.
Display: Single line, back lighted 16-character LCD and 4 LED indicators
Arming Modes: AWAY, HOME, AWAY-INSTANT HOME-INSTANT, LATCHKEY, FORCED.
Alarm Types: Silent alarm, siren alarm or sounder (internal) alarm, in accordance with zone attributes.
Siren Signals: Continuous (intrusion / 24 hours / panic); triple pulse - pause - triple pulse... (fire).
Siren Timeout: Programmable (4 minutes by default)
Internal Sounder Output: at least 85 dBa at 10 ft (3 m)
Supervision: Programmable time frame for inactivity alert
Special Functions:  
- Speech and sound control
- Powerline Carrier Device Control (up to seven X-10 brand units) by various factors, as programmed
- Chime zones
- Diagnostic test and event log
- Remote control by telephone
- Computer control and data download/upload
- Calling for help by using an emergency transmitter
- Tracing inactivity of elderly, physically handicapped and infirm people.
- Message center (recording and playback)
- Two-way voice communication
Data Retrieval: Status, alarm memory, trouble, event log.
Real Time Clock: The control panel keeps and displays time and date.

2.2 RF Section
Operating Frequencies: 315 MHz or other UHF channels per local requirement in the country of use.
Receiver Type: Super-heterodyne, fixed frequency
Receiver Range: 600 ft (180 m) in open space
Coding: PowerCode and/or CodeSecure™

2.3 Electrical Data
Power Supply: Plug-in transformer.
120 VAC, 60 Hz / 9 VAC, 700 mA (In the U.S.A.)
230 VAC, 50 Hz / 9 VAC, 700 mA or 230 VAC, 50 Hz / 9 VAC, 1A.

In Europe and elsewhere: Use only Safety National Approved AC adapter, mains-to-9 VAC, 0.7A or 1A.
Current Drain: Approx. 95 mA standby, 500 mA at full load and in alarm.
PGM (auxiliary) Output Current: 100 mA max.
Sounder Output Current with 700 mA Transformer
Internal sounder: 50 mA max.
External sounder: 150 mA max.

Attention! The external sounder can be allowed to draw up to 300 mA if the internal siren and PGM output are not used.

Sounder Output Current with 1A transformer
Internal sounder: 50 mA max.
External sounder: 350 mA max.

Attention! The 350 mA rating is valid only for units with a sticker that says “Option: 9VAC / 1A plug-in transformer”
Fuse Rating: 0.5 A for siren / sounder circuit protection.

Compliance with U.S. Standards:
Meets FCC Part 15 and Part 68 requirements.
Compliance with European Standards:
EN 50131-1 Grade II Class II
EMC Emission: EN 50081-1 1992
RFI: EN50022 1998
EMC Immunity: EN 50082-1 1997
EMC Immunity to Conducted RF: EN61000-4-6 1996
Telephony: TBR21 1998
Safety: EN60995+Am1(93), Am2(93), Am3(95), Am4(97)
The PowerMax is compatible with the RTTE requirements:
Backup Battery (provides power for at least 4 hours)
Option 1 - 9V, six alkaline AA cells, 1.8 Ah
Option 2 - 7.2 V, six Nickel Cadmium rechargeable AA cells, 650 mAh
Option 3 - 7.2 V Nickel-Metal rechargeable battery pack, 1300 mAh, supplied by Visonic – to use a non-Visonic battery pack, its battery snap should have proper polarity!

In Europe: For rechargeable cells, use BYD Battery Company Ltd. D-AA700A (1.2 V / 700 mAh).

Battery Test: Once every 24 hours, and once per hour during AC power loss.

2.4 Communication
Built-in Modem: 300 baud, Bell 103 protocol
Data Transfer to Local Computer: Via RS232 serial port

2.5 Physical Properties
Operating Temp. Range: 32°F to 120°F (0°C to 49°C)
Storage Temp. Range: -4°F to 140°F (-20°C to 60°C)
Humidity: 85% relative humidity, @ 30°C (86°F)
Size: 9-13/16 x 7-1/2 x 1-3/4 in. (250 x 190 x 44 mm).
Weight: 2 pounds (905 g) less batteries
Color: Ivory and charcoal gray

3. INSTALLATION

3.1 Unpacking the Equipment
Open the cardboard packing box and check whether all items have been included. If you find out that an item is missing, contact your vendor or dealer immediately.

3.2 Supplying Power to the Unit
Enrolling the transmitting devices' ID codes in the PowerMax memory will be easier if carried out before actual installation, with all detectors and the control panel on a work bench. It is therefore necessary to power up the PowerMax temporarily from the external power transformer or from its backup battery (see figure 1).
Disregard any "trouble" indications pertaining to lack of battery or lack of telephone line connection.

1. Remove battery area cover (see figure 2, steps 1-3), remove screw and remove battery lid.

2. Set battery type jumper position: For alkaline (dry) batteries, set jumper in DRY position. For rechargeable batteries set jumper in CHRG position (as shown).

3. Insert 7.2V battery pack (optional) to the battery holder (to use non-original battery pack, its battery snap should have proper polarity), or insert 6 battery cells.

Figure 1. Backup Battery Insertion

CAUTION! Verify that the jumper is at the correct position for the actual battery cells being installed.

3.3 Programming
It is recommended to plan ahead - use the tables in appendices A and B at the end of this guide to register the intended location of each detector, the holder and assignment of each transmitter and the control plan for the X-10 units.
Gather up all transmitters and detectors used in the system and mark each one in accordance with your deployment plan.

Report Destinations: 2 central stations, 4 private telephones, 1 pager
Reporting Format Options: SIA, Pulse 4/2 1900/1400 Hz, Pulse 4/2 1800/2300 Hz, Contact ID
Pulse Rate: 10, 20, 33 and 40 pps - programmable
Message to Private Phones: Tone or voice
Message to Pager: PIN No ➔ Alarm Type ➔ Zone No.

Program the system now as instructed in the PowerMax programming Guide (Publication DE5450P).

3.4 Mounting
Mounting process is shown in figure 3.

3.5 Wiring
All terminals and connectors are accessible within the opening at the back of the PowerMax. All screw terminal blocks can be pulled out, wired appropriately and plugged back in.

Figure 2. Sunken Wiring Area Layout

3.6 Connecting the AC Transformer
CAUTION! Do not plug the transformer into the AC outlet before completing all other wiring.
A. U.S.A. only: Remove the center screw from the AC wall outlet.
B. Plug the transformer directly in - the Power LED of the control panel should illuminate.
C. U.S.A. only: Use the screw removed in Step A above to secure the transformer to the AC outlet. Tighten the screw well.
D. The distance of the transformer from the system should not exceed 150 ft using 18 AWG conductors.
Mark and drill 4 holes in mounting surface. Insert wall anchors and fasten the bracket to the mounting surface with 4 screws.

NOTE
Verify that there is 3 cm (1.25 in.) free space around the bracket.

Locate the panel on the bracket projections, pull down and lock the bracket with locking screw (see step 4).

Figure 3 - Mounting
3.7 PowerMax-Compatible Detectors

Each detector compatible with the PowerMax system is packed with its own installation instructions. Read them carefully and install as indicated.

**A. PIR Motion Detectors**

The wireless passive infrared (PIR) motion detectors used in the system are of the PowerCode type. The PowerMax is capable of "learning" each detector's identification code and linking it to a specific zone (see Section 3 in the Programming Manual). Some units are shown below:

- **Figure 5.** MC PIR-2000
- **Figure 6.** MC PIR-3000 or K-940 MCW
- **Figure 7.** K-980MCW

*Note:* K-940 MCW and K-980MCW are pet immune units.

In addition to its unique 24-bit identification code, each detector transmits a message, containing status information:

- The detector is in alarm (or not).
- The detector is being tampered with (or not).
- The battery voltage is low (or normal).
- "This is a supervisory message".

If any of these detectors detects motion, it sends out a message to the alarm control panel. If the system is in the armed state, an alarm will be triggered.

**B. Magnetic Contact Transmitter**

MCT-302 is a PowerCode magnetic-contact transmitter used to detect the opening of a door or a window. The alarm contacts are closed as long as the door or window remain closed.

**Figure 8.** MCT-302

**C. MCT-100 Wireless Adapter for Wired Detectors**

MCT-100 is a PowerCode device used mainly as a wireless adapter for 2 regular magnetic switches installed on 2 windows in the same room. It has two inputs, behaving as separate wireless transmitters with different PowerCode IDs. Each input sends (or does not send) a "restored to normal" message to the alarm system, depending on the setting of an on-board "DIP" switch. The "restore" message informs you, through the control panel's display, whether the door or window is open or closed.

**D. Wireless Smoke Detector**

MCT-423. A photoelectric smoke detector equipped with a PowerCode-type transmitter. If enrolled to a fire zone, it initiates a fire alarm upon detection of smoke.

**Figure 10.** MCT-423

**E. Glass Break Detector**

MCT-501. An acoustic detector equipped with a PowerCode-type transmitter. Since it restores automatically after detection, this unit does not send a restoral message to the control panel.

**3.8 PowerMax-Compatible Transmitters**

*Note:* Each transmitter is packed with its own instructions for battery installation and use. Be sure to pass these documents on to the "Master User" of the alarm system.
The PowerMax system is compatible with multi-button and single button key-ring and hand-held transmitters that use PowerCode and CodeSecure coding methods. Multi-button PowerCode transmitters transmit the same code each time the same button is pressed. They can be used for emergency signaling, or for activating the PGM output or for controlling appliances via X-10 units. They can not be used for arming / disarming.

CodeSecure transmitters are of the rolling code type - they transmit a new code each time the same button is pressed. This provides a higher security level, especially in arming / disarming applications, because the code can not be copied (“grabbed”) by unauthorized people.

Following are the basic details of several compatible transmitters. The possible applications for each push-button are indicated in each drawing.

A. MCT-234: Keyfob transmitter - one unit is supplied with the PowerMax. You can program the AUX (auxiliary) button to perform various tasks, in accordance with the user’s needs.

B. MCT-231 / 201: Single-button pendant units. The MCT-231 (Code-Secure) and the MCT-201 (PowerCode) can be enrolled to perform functions as shown. Both units look alike.

C. MCT-134 / 104: 4-button hand-held units. MCT-134 (CodeSecure) can replace the MCT-234 keyfob. MCT-104 (PowerCode) can perform emergency and non-alarm functions. Both units look alike.


E. MCT-131 / 101: Single-button units. The MCT-131 (CodeSecure) and the MCT-101 (PowerCode) can be enrolled to perform functions as shown. Both units look alike.

4. TESTING PROCEDURES

4.1 Preparations
Make sure all windows and doors are closed. If all zones are secured (undisturbed), the display should read:

READY H : M

If the system is “NOT READY”, query the control panel by pressing the <SHOW/OK> button repeatedly. The source(s) of the problem(s) will be displayed and read aloud. Take the necessary measures to eliminate the problem(s) before testing the system.

F. MCT-211: Water-proof, wrist-worn PowerCode transmitter. Can be enrolled to perform emergency or non-alarm functions.

3.9 Mounting the RS232 Module
The control panel can be equipped with an optional RS232 module for serial data interchange with a local computer. If this module is not supplied, a special plastic cap blocks the niche designed to accommodate the module.

The following instructions are useful when adding the RS232 module to an already installed PowerMax system:

1. Remove plastic cap
2. Insert the RS-232 adapter into its male connector, until a click is heard

3.10 Installing an Optional X-10 Siren
If you need a “wireless” external siren, you may install an X-10 siren module which is triggered by a signal transmitted via the built-in electrical wiring of the protected site. This siren can replace the regular external siren or complement it without laying out additional wires. Of course, such a siren can be used only in conjunction with an optional power-line interface module.

The X-10 siren is ready to function upon connection to an electrical power outlet, without re-programming the PowerMax. You only have to set the HOUSE CODE and the UNIT CODE selectors on the X-10 siren as follows:

House Code: Set this selector to the letter that follows, by alphabetical order, the letter that you programmed as a house code for the protected premises. For example, if the programmed house code is “J”, set the siren house code selector to “K”.

Note: If the programmed house code letter is “P” (which is the last programmable letter), select “A” for the siren.

Unit Code: The siren will function only if you set the unit code selector to “1”.

4.2 Diagnostic Test
A comprehensive diagnostic test is required for two reasons:
• To verify proper function of all detectors in the system.
• To assure that there is a safe 6 dB margin for signal reception.

To perform this test, you must access item No. 8 in the installer’s menu exactly as done when programming the control panel:
A. Click the <NEXT> button until the display reads:

```
INSTALLER MODE
```

B. Click <OK> to select the installer’s menu. The control panel will prompt you for the installer code.

C. Enter the valid installer code (9999999) or the new installer code that you already programmed. The “Happy Tune” (- - - - ----) will sound if the code is correct and the display will change to:

```
1. NEW INSTL CODE
```

D. Click <NEXT> or <BACK> until the number and name of the desired mode are displayed:

```
8. DIAGNOSTICS
```

E. Carry on as in Section 9 of the programming guide.

### 4.3 Keyfob Transmitter Test

Initiate transmission from each transmitter enrolled as a keyfob unit (according to the list in Table A2, Appendix A). Use each transmitter to arm the control panel AWAY and immediately disarm it. Upon pressing the keyfob unit’s AWAY key, the ARM indicator should light, and the display should respond as follows:

```
ARMING AWAY

PLEASE EXIT NOW
```

The exit delay beeps will begin. Press the keyfob unit’s DISARM (f) key. The ARM indicator should extinguish, the “Happy Tune” (- - - - ----) should sound and the display should revert to:

```
READY HH : MM
```

Test the AUX button in each keyfob in accordance with the information noted in Table A.2, Appendix A. Verify that the AUX button performs its duty as programmed.

- If the AUX (*) button is defined as “STATUS”, system status should be displayed and announced upon pressing the button.
- If the AUX (*) button is defined as “INSTANT”, press the AWAY button and then the AUX button. The response should be:

```
ARMING INSTANT

(alternating)

PLEASE EXIT NOW
```

and the exit delay beeps will start. Press the DISARM (f) key immediately to disarm.

### 4.4 Appliance ON/OFF Test

The “X-10 unit assignment” information that you noted in Appendix B to this manual is very useful for this test.

Go over the table in Appendix B column by column. If, for instance the “ON by arming” column has “X”s marked in the rows pertaining to units 1, 5 and 7 - then arm the system and verify that the appliances controlled by these units are actually activated upon arming.

Continue in the same manner in the following columns, always creating the state or event that will activate the relevant units. Verify that all appliances are activated as programmed.

**IMPORTANT! Before testing “On by Timer” and “On by Zone”, make sure that these forms of control are permitted - click [ ] repeatedly and verify that the display shows:

```
BY TIMER ON

and:

BY SENSOR ON
```

A dark box at the extreme right means that these functions are enabled.

The easiest way to test timed activation is to select the ninth item in the installer’s menu (“3. USER SETTINGS”) and set the system clock a few minutes before the relevant “start time”. Do not forget to return the clock to the correct time after completion of this test.

### 4.5 Emergency Transmitter Test

Initiate transmission from each transmitter enrolled to an emergency zone (according to the list in Table A3, Appendix A). For example, upon pressing the transmit button of an emergency transmitter enrolled to zone 22, the display should read:

```
Z22 EMERGENCY

(alternating)

VIOLATED
```

It is advisable to let the central station know that you are conducting this test, or just disconnect the telephone line from the PowerMax during the test, to prevent false alarms.

### 5. MAINTENANCE

#### 5.1 Dismounting the Control Panel

Remove PowerMax from its bracket (see fig. 3, steps 1-5).

#### 5.2 Replacing the Backup Battery

- **CAUTION!** If you replace rechargeable cells with alkaline (dry) cells, be sure to install the battery-type jumper in the “DRY” position. Failure to do so will result in rapid cell destruction and leakage (acid leakage may cause further damage).

Replacement and first-time insertion of cells are similar (see figure 1). The only difference is the necessity to remove the old cells and to inspect the battery holder contacts and springs for signs of corrosion.

If you replace rechargeable cells, correct insertion and tightened battery compartment lid, the TROUBLE indicator should extinguish. However, the “MEMORY” message will now blink in the display (caused by the “tamper” alarm you triggered when opening the battery compartment lid). Clear it by arming the system and immediately disarming.
5.3 Fuse Replacement

The PowerMax has a fuse which can burn out:

Siren Fuse - 0.5 A, time delay type, per IEC127-3 (in Europe).

If the siren fuse burns out, the trouble indicator lights and TRBL is displayed (together with READY or NOT READY - as the case may be). Clicking the <SHOW /OK> button will display a FUSE TROUBLE message.

The fuse is accessible through the rectangular opening at the rear of the cabinet (see figure 2). To replace the fuse, the cabinet should be temporarily dismounted (as shown in figure 3).

Extract the suspected fuse and check it visually. In most cases, a defective fuse can be identified by the broken conductor within the glass cylinder. If in doubt, test the continuity of the fuse with an ohmmeter.

Replace a defective fuse with a new one of the same ratings. The relevant trouble indications will immediately disappear.

5.4 Replacing/Relocating Detectors

Whenever the maintenance work involves replacement or re-location of detectors, you must keep in mind that **It is mandatory to perform a full diagnostic test per Section 9 of the Programming Guide.**

**Remember!** A “poor” signal is not acceptable, as stated at the end of the test procedure.

APPENDIX A. Detector Deployment & Transmitter Assignments

A1. Detector Deployment Plan

<table>
<thead>
<tr>
<th>Zone No.</th>
<th>Zone Type</th>
<th>Sensor Location or Transmitter Assignment (in non-alarm or emergency zones)</th>
<th>Chime (Yes / No)</th>
<th>Controls PGM (X = YES)</th>
<th>Controls X-10 Unit No.</th>
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<td>1</td>
<td>Interior</td>
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<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Zone Types:** 1 = Interior * 2 = Perimeter * 3 = Delay 1 * 4 = Delay 2 * 5 = 24 h silent * 6 = 24 h audible * 7 = Fire * 8 = Non-alarm * 9 = Emergency.

**Zone Locations:** Note down the intended location for each detector. When programming, you may select one of 26 available zone names (plus 3 custom zone names that you can add - see Figure 3 in the Programming Guide).
### A2. Keyfob Transmitter List

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Holder</th>
<th>Status or Arming “instant”</th>
<th>PGM Control</th>
<th>X-10 Unit Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>Indicate the desired function (if any) - see Para. 5.16 in the programming guide.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>Indicate whether this output will be activated or not - see Section 7 in the programming guide.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td>Yes ☐ No ☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td>Mark the boxes of the X-10 units to be activated - see Section 7 in the programming guide.</td>
<td></td>
<td>1 ☑ 2 ☑ 3 ☑ 4 ☑ 5 ☑ 6 ☑ 7 ☑</td>
</tr>
</tbody>
</table>

### A3. Emergency Transmitter List

<table>
<thead>
<tr>
<th>Tx #</th>
<th>Transmitter Type</th>
<th>Enrolled to Zone</th>
<th>Name of holder</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
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<tr>
<td>8</td>
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<td></td>
<td></td>
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<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### A4. Non-Alarm Transmitter List

<table>
<thead>
<tr>
<th>Tx #</th>
<th>Transmitter Type</th>
<th>Enrolled to Zone</th>
<th>Name of holder</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
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</tr>
<tr>
<td>3</td>
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<td>4</td>
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<td>7</td>
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<td>8</td>
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<tr>
<td>9</td>
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<td></td>
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<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### APPENDIX B. X-10 Unit Assignments

<table>
<thead>
<tr>
<th>Unit No</th>
<th>Controlled Appliance</th>
<th>ON by Arming</th>
<th>ON by Memory</th>
<th>ON by Delay</th>
<th>ON by Keyfob</th>
<th>ON by Timer</th>
<th>ON by Zone No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
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<td></td>
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<tr>
<td>3</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>4</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>5</td>
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<tr>
<td>6</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
Federal Communications Commission (FCC) Statements

FCC PART 15 STATEMENT
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The digital circuits of this device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Re-orient or re-locate the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit different from the one which supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.

FCC PART 68 STATEMENT
This equipment complies with Part 68 of the FCC rules. On the front cover of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

This equipment uses the following jacks: An RJ31X is used to connect this equipment to the telephone network. The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices which may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area. If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe necessary. The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice that will enable you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact the manufacturer for repair and warranty information. If the trouble is causing harm to the telephone network, the telephone company may request that you remove the equipment from the network until the problem is resolved.

There are no user serviceable components in this product, and all necessary repairs must be made by the manufacturer. Other repair methods may invalidate the FCC registration on this product.

This equipment cannot be used on telephone company-provided coin service. Connection to Party Line Service is subject to state tariffs.

When programming or making test calls to an emergency number, briefly explain to the dispatcher the reason for the call. Perform such activities in the off-peak hours; such as early morning or late evening.
Declaration of Conformity

We, the undersigned,

Company: Visonic Ltd
Address: 30, Habarzel Street, Tel-Aviv 61220
Country: Israel
Telephone number: +972 3 6456789
Fax number: +972 3 6456788

certify and declare under our sole responsibility that the following equipment:

<table>
<thead>
<tr>
<th>Type</th>
<th>Product description / Supplementary info</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWERMAX</td>
<td>Wireless burglar alarm control panel</td>
</tr>
</tbody>
</table>

is tested to and conforms with the essential EMC Requirements:

<table>
<thead>
<tr>
<th>Standard</th>
<th>Issue date</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 50081-1 EMC Emission</td>
<td>1992</td>
</tr>
<tr>
<td>EN 55022 RFI</td>
<td>1998</td>
</tr>
<tr>
<td>EN 50082-1 EMC Immunity</td>
<td>1997</td>
</tr>
<tr>
<td>EN 6100-4-6 EMC immunity to conducted RF</td>
<td>1996</td>
</tr>
<tr>
<td>TBR21 Telephony</td>
<td>1998</td>
</tr>
<tr>
<td>EN 60950+ Am1(93), Am2(93), Am3(95), Am4(97) Safety</td>
<td>1997</td>
</tr>
</tbody>
</table>


The following Notified Bodies and/or independent laboratories have been consulted in the Conformity Assessment procedure:

<table>
<thead>
<tr>
<th>Notified Body number/Lab</th>
<th>Name and address</th>
</tr>
</thead>
<tbody>
<tr>
<td>0122</td>
<td>NMI Certin B.V., POB 15, 9822 ZG Nieuwkoop, The Netherlands</td>
</tr>
</tbody>
</table>

The technical documentation as required by the Conformity Assessment procedure is kept at the following address:

Company: Visonic Ltd.
Address: Unit 1, Stratton Park
Dunton Lane, Biggleswade
Bedfordshire SG18 8QS
Country: UK
Telephone number: 01767 600857
Fax number: 0167 601098

Drawn up in:
Tel-Aviv, Israel on 22/06/2000

(place) (dd-mm-yyyy) (signature)

Yaakov Kotlicki
Directing Manager (name and function) (company stamp)
WARRANTY

Visonic Limited (the “Manufacturer”) warrants this product only (the “Product”) to the original purchaser only (the “Purchaser”) against defective workmanship and materials under normal use of the Product for a period of twelve (12) months from the date of shipment by the Manufacturer.

This Warranty is absolutely conditional upon the Product having been properly installed, maintained and operated under conditions of normal use in accordance with the Manufacturer’s recommended installation and operation instructions. Products which have become defective for any other reason, according to the Manufacturer’s discretion, such as improper installation, failure to follow recommended installation and operational instructions, neglect, willful damage, misuse or vandalism, accidental damage, alteration or tampering, or repair by anyone other than the manufacturer, are not covered by this Warranty.

The Manufacturer does not represent that this Product may not be compromised and/or circumvented or that the Product will prevent any death and/or personal injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. The Product, properly installed and maintained, only reduces the risk of such events without warning and it is not a guarantee or insurance that such events will not occur.

THIS WARRANTY IS EXCLUSIVE AND EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, OBLIGATIONS OR LIABILITIES, WHETHER WRITTEN, ORAL, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE. IN NO CASE SHALL THE MANUFACTURER BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS WARRANTY OR ANY OTHER WARRANTIES WHATSOEVER, AS AFORESAID.

THE MANUFACTURER SHALL NOT IN ANY EVENT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES OR FOR LOSS, DAMAGE, OR EXPENSE, INCLUDING LOSS OF USE, PROFITS, REVENUE, OR GOODWILL, DIRECTLY OR INDIRECTLY ARISING FROM PURCHASER’S USE, OR INABILITY TO USE THE PRODUCT, OR FOR LOSS OR DESTRUCTION OF OTHER PROPERTY OR FROM ANY OTHER CAUSE, EVEN IF MANUFACTURER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE MANUFACTURER SHALL HAVE NO LIABILITY FOR ANY DEATH, PERSONAL AND/OR BODILY INJURY AND/OR DAMAGE TO PROPERTY OR OTHER LOSS WHETHER DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, BASED ON A CLAIM THAT THE PRODUCT FAILED TO FUNCTION.

However, if the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty, THE MANUFACTURER’S MAXIMUM LIABILITY (IF ANY) SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer.

When accepting the delivery of the Product, the Purchaser agrees to the said conditions of sale and warranty and he recognizes having been informed of. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so these limitations may not apply under certain circumstances.

The Manufacturer shall be under no liability whatsoever arising out of the corruption and/or malfunctioning of any telecommunication or electronic equipment or any programs. The Manufacturers obligations under this Warranty are limited solely to repair and/or replace at the Manufacturer’s discretion any Product or part thereof that may prove defective. Any repair and/or replacement shall not extend the original Warranty period. The Manufacturer shall not be responsible for dismantling and/or reinstalation costs. To exercise this Warranty the Product must be returned to the Manufacturer freight pre-paid and insured. All freight and insurance costs are the responsibility of the Purchaser and are not included in this Warranty. This warranty shall not be modified, varied or extended, and the Manufacturer does not authorize any person to act on its behalf in the modification, variation or extension of the warranty. This warranty shall apply to the Product only. All products, accessories or attachments of others used in conjunction with the Product, including batteries, shall be covered solely by their own warranty, if any. The Manufacturer shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consecutively or otherwise, caused by the malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Products. This Warranty is exclusive to the original Purchaser and is not assignable.

This Warranty is in addition to and does not affect your legal rights. Any provision in this Warranty which is contrary to the Law in the state or country where the Product is supplied shall not apply.

Warning: The user must follow the Manufacturer’s installation and operational instructions including testing the Product and its whole system at least once a week and to take all necessary precautions for his/her safety and the protection of his/her property.

1/08

Visonic

INTERNET: www.visonic.com
EMAIL: info@visonic.com
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DE5450 PowerMax Installation Instructions