detector be mounted behind the drapes either on an adjacent wall or on the ceiling.

- If there are multiple windows, or one large window, activate the tester at the furthest point on the glass.

When the detector responds consistently, it can be permanently mounted using the supplied screws.

FCC COMPLIANCE STATEMENT
CAUTION: Changes or modifications not expressly approved by Digital Security Controls could void your authority to use this equipment.

This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer’s instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for Class B device in accordance with the specifications in Subpart “B” of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in any residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Re-orient the receiving antenna
- Relocate the alarm control with respect to the receiver
- Move the alarm control away from the receiver
- Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC helpful: “How to Identify and Resolve Radio/Television Interference Problems”. This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock # 004-000-00345-4.

Limited Warranty
Digital Security Controls warrants that for a period of twelve months from the date of purchase, the product shall be free of defects in material and workmanship under normal use and that in fulfillment of any breach of such warranty, Digital Security Controls shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and does not cover damage due to: mishandling or improper handling, lightning, excessive voltage, mechanical shock, water damage, damage arising out of abuse, alteration or improper application of the equipment.

The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether express or implied and of all other obligations or liabilities on the part of Digital Security Controls. This warranty contains the entire warranty. Digital Security Controls neither assumes, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

In no event shall Digital Security Controls be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

Warning
Digital Security Controls recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

Specifications
Current rating ....................................................... 3.9 mA standby; 5.9 mA with test LED on
Microphone type ........................................................ Omnidirectional Electret
Dimensions (L x W x H) ................................................ 89 x 64 x 20 mm (3.5 x 2.5 x 0.8 in.)
Operating Environment ........................................... 0°C-50°C (32°F-122°F); 5%-95% RH, non-condensing
Alarm duration ........................................................ 3 seconds
Detection Level ........................................................ Jumper J2
Control Panels ...... PC4010/4020 v3.x, PC5010, PC5015 v2.X w/PC5100 interface module

Maximum Detection Range

<table>
<thead>
<tr>
<th>Glass Type</th>
<th>Thickness</th>
<th>Sizes (lxw)</th>
<th>Level 1</th>
<th>Level 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate/Tempered</td>
<td>1/8–1/4”</td>
<td>18”x18” and up</td>
<td>25ft</td>
<td>15ft</td>
</tr>
<tr>
<td>3–6mm</td>
<td>46x46cm</td>
<td>7.6m</td>
<td>4.6m</td>
<td></td>
</tr>
<tr>
<td>12”x12” to 18”x18”</td>
<td>15ft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30x30cm to 46x46cm</td>
<td>4.6m</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wired/Laminated</td>
<td>1/4”(6mm)</td>
<td>18”x18” and up</td>
<td>20ft</td>
<td>10ft</td>
</tr>
<tr>
<td>6mm</td>
<td>46x46cm</td>
<td>6m</td>
<td>3m</td>
<td></td>
</tr>
<tr>
<td>12”x12” to 18”x18”</td>
<td>10ft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30x30cm to 46x46cm</td>
<td>3m</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Level of Detection (Jumper J2)
The AMA-100 glass break detector comes with a “detection level” jumper setting (Jumper J2), which allows the selection of one of two levels of detection, depending on the size and acoustics of the room in which the detector will be installed. This improves the overall false alarm immunity of the detector.
The detector is factory preset for Level 1 detection (Jumper J2=OFF). This is the highest sensitivity setting of the detector, and is designed for applications requiring high sensitivity and range, such as larger rooms, or rooms which contain a significant amount of sound-absorbing surfaces (such as carpets, furniture, drapes, etc.). Level 1 will be suitable for most applications.

For rooms which are smaller, and contain a significant amount of hard, sound-reflective surfaces (such as kitchens, bathrooms, entrances etc.), Level 2 detection (Jumper J2=ON) provides a lower sensitivity setting which is more appropriate for these environments.

**NOTE:** Jumper J1 is not used and must always be left on.

**Locating The Detector**

**NOTE:** Test the detector thoroughly for proper placement using the AFT-100 Glass Break Simulator. Other simulators may trip the unit, but will not provide accurate indications.

- For optimum protection, the detector should have a direct line of sight to the protected glass.
- Window coverings will absorb sound energy from the shattering glass. In these cases, mount the detector as close as possible to the protected glass, either on an adjacent wall, the ceiling, or behind the window covering if possible.
- The detector should be mounted at least 1.8m (6 feet) off the ground.
- Do not mount the detector on the same wall as the protected glass. Refer to the diagram below for correct and incorrect mounting locations.
- Avoid installation near “noisy” sources, such as speakers or other objects which produce sounds continuously.
- Do not install the detector beyond the maximum recommended range, even if the AFT-100 simulator shows additional range - future changes in room acoustics could reduce that additional range.
- Application on 24 hour loops should be avoided unless the location is unoccupied.
- Test false alarm immunity by creating any sounds in the room which will likely occur when the alarm system is armed.

**Wiring the Device**

To connect the AMA-100, consult the wiring diagram below:

**Mounting the AMA-100**

Once the location has been determined, open the detector by pressing the release tab on the bottom with a small flat-blade screwdriver. Remove the cover and set in a safe location. Draw the wires through the rectangular opening in the backplate and connect to the terminal block. Mount the detector using the two mounting screws. Once the device is wired and mounted, you will need to enroll it.

**Device Enrollment**

The serial number located on the back of the device must be enrolled into the alarm control panel via Installer’s Programming ([8] [Installer’s Code]). This procedure is outlined for the PC4010/4020 in the control panel Installation Manual and for the Power panels in the PC5100 Installation Manual.

Once the detector is enrolled, replace the cover and test the detector using the AFT-100 tester to confirm proper operation.

**Removing Devices**

Before removing devices from the system, **you must delete their serial numbers.** To remove a 2-wire addressable device from the system, follow the Enrollment procedure but enter [00000] for the serial number of the device you wish to remove.

**Replacing Devices**

In order to replace an AML device, you must first remove the old device, then enroll the new device, as described above.

**WARNING:** Connect only DSC Addressable Series devices to the addressable loop connections. Connection of ANY other type of device will impair operation. Any devices other than Addressable Series devices which require power to operate must be powered separately.

**Testing**

Once you have mounted, wired and enrolled the detector, **test to ensure that the detector is working correctly.** To do this:

1. Put the control panel in walk test mode as described in the control panel installation manual.
2. Use the AFT-100 glass break simulator to test the AMA-100. When the AMA-100 is working correctly, the LED will light up in response to the AFT-100. Refer to the section below for tips on using the AFT-100.
3. End walk test mode as described in the control panel installation manual.

**NOTE:** The detector will not respond to the glass break simulator unless the system is in walk test mode.

**The AFT-100 Glass Break Simulator**

The AFT-100 glass break simulator generates plate or tempered glass samples. Use the plate glass setting if you are unsure of the glass type. Observe the following when testing the detector:

- The correct mounting location is indicated by three successive detections. If the detector does not respond each time, relocate the detector and repeat the test.
- If the windows in question are covered by drapes or blinds, place the tester behind the closed window coverings. If the drapes prevent reliable detection, we suggest that the