




































Indicator LEDs		
Enter the following keystrokes:		
1. Enter Program Mode	<b>* 1 2 3 4 *</b>	  
2. Select Delete Menu	<b>2 #</b>	  
3. Enter user address	<b>0 #</b>	  
4. Exit Delete Menu	<b>#</b>	  
5. Exit Program Mode	<b>#</b>	  



















## 12. Setting the Output Timers

Sets the output pulse time of the output channels. The Factory Default setting is for a one second pulse.

Indicator LEDs		
Enter the following keystrokes:		
1. Enter Program Mode	<b>* Master Code *</b>	  
2. Select Output Menu	<b>3 #</b>	  
3. Enter channel	<b>Channel #</b>	  
4. Enter pulse time	<b>Seconds #</b>	  
5. Exit Output Menu	<b>#</b>	  
6. Exit Program Mode	<b>#</b>	  
















- A pulse time of zero seconds will give latched output
- Maximum pulse time is 255 seconds

Set the output pulse time for a period of 1 second.

Indicator LEDs		
Enter the following keystrokes:		
1. Enter Program Mode	<b>* 1 2 3 4 *</b>	  
2. Select Output Menu	<b>3 #</b>	  
3. Enter Output channel	<b>1 #</b>	  
4. Enter pulse time	<b>1 #</b>	  
5. Exit Output Menu	<b>#</b>	  
6. Exit Program Mode	<b>#</b>	  
















## 13. Setting the Anti-hack Parameters

The following procedure sets the number of wrong access codes that the **SMARTGUARD** will accept before becoming inactive, as well as the time for which it will remain inactive. The Factory Default for wrong access codes is three, while the default Reset time is 60 seconds.

Indicator LEDs		
Enter the following keystrokes:		
1. Enter Program Mode	<b>* Master Code *</b>	  
2. Select Lockout Menu	<b>4 #</b>	  
3. Enter number of codes	<b>Wrong codes #</b>	  
4. Enter Reset Time	<b>Seconds #</b>	  
5. Exit Program Mode	<b>#</b>	  

- If the Number of wrong codes is set to zero, the unit will accept an unlimited number of wrong codes.
- If the Reset time is set to zero, the unit can only be reset by removing the power.

**Example:**  
Set **wrong code alarm** to activate after five incorrect codes have been entered. The unit must reactivate after 30 seconds.  
Master Code= **1 2 3 4**













Indicator LEDs		
Enter the following keystrokes:		
1. Enter Program Mode	<b>* 1 2 3 4 *</b>	  
2. Select Lockout Menu	<b>4 #</b>	  
3. Enter number of codes	<b>5 #</b>	  
4. Enter Reset Time	<b>3 0 #</b>	  
5. Exit Program Mode	<b>#</b>	  

## 14. Setting the Key Wipeout Time

The following procedure sets the number of seconds for which keystrokes remain valid. This ensures that if a partial code has been entered, it is wiped out of the keypad buffer after a preset time, and must be re-entered in its entirety.

The clearing of the keypad buffer is indicated by the keypad's backlight turning off.













The Factory Default for the Key Wipeout timer is five seconds.

Indicator LEDs		
Enter the following keystrokes:		
1. Enter Program Mode	<b>* Master Code *</b>	  
2. Select Wipeout Menu	<b>5 #</b>	  
3. Enter Wipeout Time	<b>[Seconds] #</b>	  
4. Exit Program Mode	<b>#</b>	  













If the Wipeout time is set to **0**, key wipeout will be disabled (only applicable to externally powered devices)

- Disabling the Key Wipeout Time will:**
- **Compromise the security of the system**
  - **Cause a code entry to be incorrectly recognised as a wrong code if an incomplete code was previously entered**

**Example:** (see pannel that follows):  
Set the Key Wipeout Time to 15 seconds.  
Master Code= **1 2 3 4**

Indicator LEDs		
Enter the following keystrokes:		
1. Enter Program Mode	<b>* 1 2 3 4 *</b>	  
2. Select Wipeout Menu	<b>5 #</b>	  
3. Enter Wipeout Time	<b>1 5 #</b>	  
4. Exit Program Mode	<b>#</b>	  

**Example:**  
Disable Key Wipeout Time.  
Master Code= **1 2 3 4**

Indicator LEDs		
Enter the following keystrokes:		
1. Enter Program Mode	<b>* 1 2 3 4 *</b>	  
2. Select Wipeout Menu	<b>5 #</b>	  
3. Enter Wipeout Time	<b>0 #</b>	  
4. Exit Program Mode	<b>#</b>	  

## 15. Setting the Security Parameters

The following procedure sets the conditions under which the Alarm channel (Channel 3) will activate. This also sets the Anti-default and Tone Mute features.

The following alarm conditions can be set:

**Duress (Code + 1) (Default=off)**  
Adding **1** to the last digit of an access code activates the unit as normal, but also activates the alarm channel. This is used if entering under duress. E.g. If the access code is **1 2 3 4**, entering **1 2 3 5** gives access, but also activates the alarm.

**Alarm (\* + #) (Default=off)**

Pressing the **\*** and **#** keys simultaneously activates the Alarm channel.

























**Wrong Codes (Default=off)**

When the number of wrong codes is exceeded, the Alarm channel is activated

**Anti-default feature (Default=on)**

























Setting this feature prevents the Master Code and system parameters from being reset by the defaulting features.

**Alarm Tone Mute Feature (Default=off)**  
Setting this feature turns off the audible feedback when entering a code. This prevents an eavesdropper from determining the number of digits in the code. Tones will still be present in Programming Mode.

























Indicator LEDs		
Enter the following keystrokes:		
1. Enter Program Mode	<b>* Master Code *</b>	  
2. Select Security Menu	<b>6 #</b>	  
3. Set (Code+1)	<b>0 OR 1 #</b>	  
4. Set (*+ #)	<b>0 OR 1 #</b>	  
5. Set (Wrong Codes)	<b>0 OR 1 #</b>	  
6. Set Anti-default	<b>0 OR 1 #</b>	  
7. Set Tone Mute	<b>0 OR 1 #</b>	  
8. Exit Program Mode	<b>#</b>	  

**0 #** turns function **off**, **1 #** turns function **on**

**Example:**  
Enable Alarm on Code + **1**. Clear all other functions  
Master Code= **1 2 3 4**

Indicator LEDs		
Enter the following keystrokes:		
1. Enter Program Mode	<b>* 1 2 3 4 *</b>	  
2. Select Security Menu	<b>6 #</b>	  
3. Set (Code+1)	<b>1 #</b>	  
4. Clear (*+ #)	<b>0 #</b>	  
5. Clear (Wrong Codes)	<b>0 #</b>	  
6. Clear Anti-default	<b>0 #</b>	  
7. Clear Tone Mute	<b>0 #</b>	  
8. Exit Program Mode	<b>#</b>	  

**Example:**  
Set Alarm on Wrong Codes. Leave all other functions unchanged.  
Master Code= **1 2 3 4**

Indicator LEDs		
Enter the following keystrokes:		
1. Enter Program Mode	<b>* 1 2 3 4 *</b>	  
2. Select Security Menu	<b>6 #</b>	  
3. Skip (Code+1)	<b>#</b>	  
4. Skip (*+ #)	<b>#</b>	  
5. Set (Wrong Codes)	<b>1 #</b>	  
6. Skip Anti-default	<b>#</b>	  
7. Set Tone Mute	<b>#</b>	  
8. Exit Program Mode	<b>#</b>	  

## 16. Backing Up the Unit

Backs up all the user access codes as well as system settings to the optional CP108 Backup Memory Module. This allows the system to be easily restored in the unlikely event of system failure.

**Procedure for backing up the unit:**  
Remove power. Plug the CP108 into the socket provided. Reapply power. All three LEDs will now be on. Press **1** on the keypad.

The green LED will begin to flash, indicating that the memory is being backed up. When the backup is complete, a beep will be heard, and the yellow and green LEDs will turn off. Remove the Backup Memory Module and keep it in a safe place.

Backing up to a Backup Memory Module will overwrite any information that was previously contained in that Backup Memory Module

## 17. Restoring the Unit

Restores all the user access codes as well as system settings from the optional Backup Memory Module (PCA12201v1.0).

**Procedure for restoring the unit:**  
Remove power. Plug the CP108 into the socket provided. Reapply power. All three LEDs will now be on. Press **3** on the keypad. The yellow LED will begin to flash, indicating that the memory is being restored. When the restore is complete, a beep will be heard, and the yellow and green LEDs will turn off. Remove the Memory Module, and keep it in a safe place.

Restoring from a Backup Memory Module will overwrite any information that was previously contained in the **SMARTGUARD** unit

## 18. Defaulting the Unit

Both the Master Code and the system parameters (timers, alarm functions, etc.) can be reset to Factory Defaults. This is useful when the Master Code has been forgotten or the system parameters are in an unknown state.

**Defaulting the Master Code:**  
Remove power. Reapply power while holding the **1** key down for two seconds. A beep will then follow, indicating that the Master Code has been reset to **1 2 3 4**.

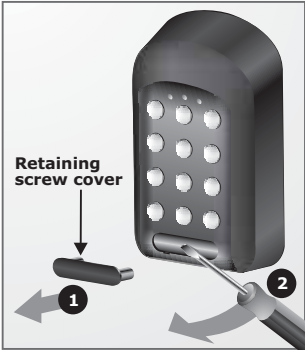
**Defaulting the System Parameters:**  
Remove power. Reapply power while holding the **2** and **3** keys down together for two seconds. A beep will then follow, indicating that the System Parameters have been reset to the following Factory Defaults:

Wrong Codes:	3 codes
Wrong Codes Reset:	60 seconds
Wipeout Timer:	5 seconds
Security Parameters:	Anti-default ON, all others OFF

Defaulting is not possible if the anti-default option has been set (see Section 11).  
In this case, if the Master Code has been lost, the system must be restored from a backup to reset the Master Code to **1 2 3 4**

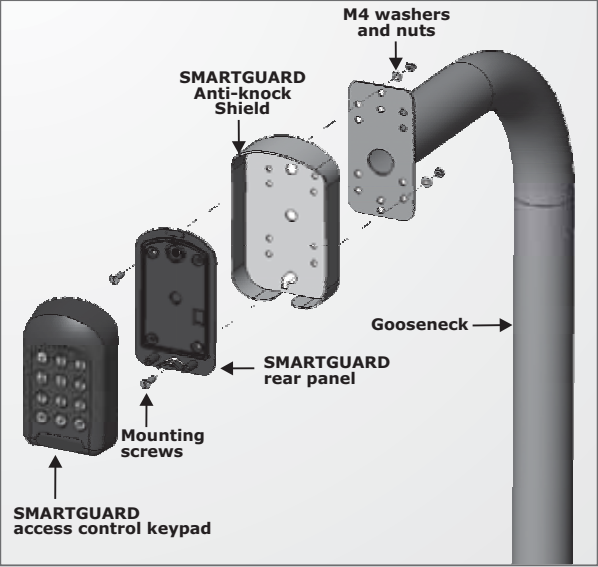
## 19. Typical Mounting Instructions:

1. Remove retaining screw cover and screws.
2. Insert screwdriver blade into groove provided between the cover and back panel. Lever screwdriver forward to separate the cover from the back panel.



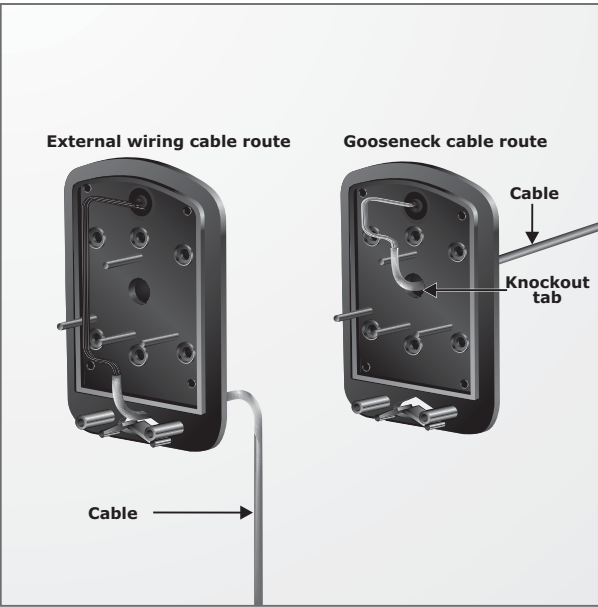
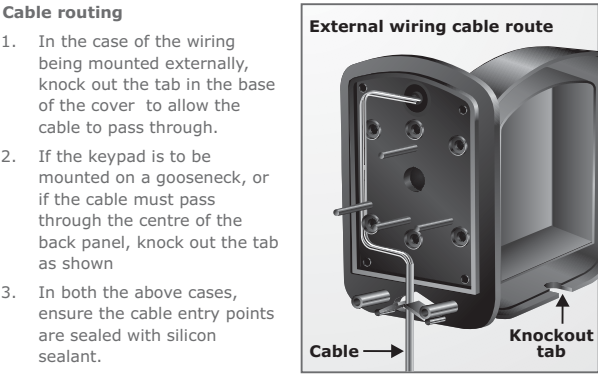
3. Fix the self-adhesive rubber pads into the recesses provided on the rear panel.

4. Attach the rear pane to the mounting surface, Anti-knock Shield or gooseneck with the mounting screws supplied as shown below.



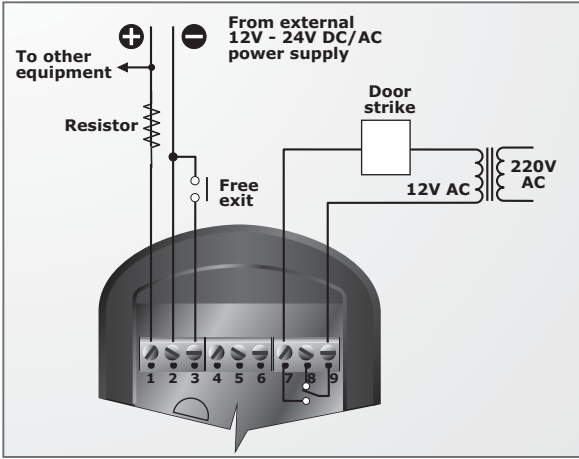
Be sure to seal all the mountings with silicone sealant.

**Use only the mounting holes shown. If the other mounting holes are used, the mounting screws will interfere with the batteries.**



## 20. Typical Connection Diagram

**If your supply voltage to the SMARTGUARD exceeds 24V AC or 30V DC, fit the supplied 150R resistor in series with the supply wire as shown.**



## 21. Important Installation Information

Complete the installation information below for future