DOOR•GARD SELF-CONTAINED ACCESS CONTROL SYSTEMS offer field proven reliability and cost effective solutions for residential, commercial and industrial installations. Elegant yet durable, Door•Gard systems blend with virtually any decor. Designed for compatibility with virtually any electric locking device, Door•Gards accept power from a 12 or 24V AC/DC supply. No separate programmer is ever necessary.

**FEATURES**: 
- LOCK RELEASE RELAY
- LOCK RELEASE TIMER
- FORCED DOOR ALARM RELAY
- PROPPED DOOR ALARM RELAY
- ALARM ZONE SHUNTING RELAY
- USES ANY TRACK II ENCODED MAGNETIC STRIPE CARD
- ACCESS VIA CARD, CODE OR BOTH
- TIMED EGRESS INPUT
- 60 USERS
- FRONT PROGRAMMING

**MEMORY**
Non-volatile EEPROM memory means your users and instructions will be there whether you remove power for 5 minutes or 5 years.

**CARDS/ CODES**
The Door-Gard 234 Self-Contained Access Control System allows up to 60 individual users to be valid. The Master Code (used to enter the programming mode) is always user one (1). Codes may be from 1-6 digits in length and digits may be repeated. Any ABA standard Track II encoded magnetic stripe card may be programmed as a user. Users may be programmed as card only, code only, card and code or either.

**FORCED DOOR RELAY**
Assisted by the Door Position Sensor Loop, this 1 Amp Form-C relay will energize if the door is opened without a valid user entry or egress input. This output can be programmed to energize for up to 15 minutes or latch. It can be reset by a valid code/card entry.

**PROPPED DOOR RELAY**
Programming a 1 to 15 minute open door time allows the Door-Gard to alert you to a propped door by energizing a 1 Amp Form-C relay. Assisted by the Door Position Sensor Loop, this relay will deenergize upon closure of the door.

**ALARM ZONE SHUNT RELAY**
Assisted by the Door Position Sensor Loop, this 1 Amp, lock release relay providing an easy means of shunting existing door contacts. The relay will continue shunting until the Door•Gard sees the door close; preventing nuisance alarms (use the propped door relay instead).

**LOCK RELEASE RELAY**
This is an 8 Amp (10 Amp surge) Form-C relay which can be toggled (by code/card) or timed from 1 to 90 seconds.

**DOOR POSITION SENSOR INPUT**
By simple adding a normally closed magnetic door switch, the Door•Gard system will monitor the position of the door and immediately relock it after valid access has been gained, preventing unwanted “tailgate” entries.

**PROGRAMMING**
Programming is accomplished by entering instructions at the front of the keypad and swiping cards at the reader. Multiple users may be added sequentially at the reader without returning to the keypad. LED guidance makes programming easy, and changing cards or codes a matter of seconds for an authorized user.

**TIMED EGRESS INPUT**
Upon a momentary closure, this normally open loop will trigger the Lock Release relay for the same time period as the Master Code.

**KEYPRESS FEEDBACK / AUDIBLE KEYPRESS**
The Door-Gard 234 Self Contained Access Control System will acknowledge a keypress by momentarily sounding the sounder. This feature can be turned off through programming.

**VESTIBULE/ ATM MODE**
This mode allows any Track II encoded magnetic stripe card to energize either the Propped Door relay, the Forced Door relay or both. This function is especially useful when allowing access to a vestibule or automatic teller machine. A new command has been added that will energize the selected relay even if the card is not swiped properly. This is referred to as Vestibule/ATM Mode even on read error (see programming option 605-4440 Rev 1.01
19). **TESTING THE SYSTEM**

1. Connect the positive (\(+\) lead of your power supply to the terminal strip (TS1) \(+V\) input.
2. Connect the negative (\(-\) lead of your power supply to the terminal strip (TS1) \(-V\) input.
3. Turn on your power supply.
4. Press 7890#123456*. If all 12 keypresses have been verified, the 234 Card Reader will enter self test mode. The LED’s will flash and the sounder will beep 3 times, then sound continuously for 3 seconds. If these responses do not happen, try the test mode again and then call tech support. Note: self test mode can be used when trouble shooting a keypad in the field. If you do not get the continuous sound then the memory has been corrupted and should be re-programmed with the 46 command (see option #23).
5. Enter the master code of 1234*. The relay will energize. Refer to programming section to program your system.

NOTES:
The system may be programmed in your shop or at the installation site. Programmed information is stored in nonvolatile memory so it will not be lost if power is removed.

**ACCESS CONTROL DEFAULTS**
Door-Gard Self-Contained Access Control Systems are designed for easy installation in a minimum amount of time. The following defaults have been factory programmed.

- **Master Code (user 1)**: 1234 *
- **Main Relay will energize for**: 5 secs.
- **Keypress Feedback**: On
- **Propped door relay will energize after**: 30 secs.
- **Forced door relay will energize for**: 10 secs.

If defaults must be changed or additional functions are desired, please refer to the **PROGRAMMING**

<table>
<thead>
<tr>
<th>OPTIONS CHART</th>
<th>after you are familiar with the</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Enter programming mode Note 1</td>
<td>Yellow LED</td>
</tr>
<tr>
<td>Press 99 # (master code) *</td>
<td>Flashes slowly</td>
</tr>
<tr>
<td>2. To Change master code Note 2</td>
<td></td>
</tr>
<tr>
<td>Press 1 # (new master code) *</td>
<td>Flashes fast</td>
</tr>
<tr>
<td>Press (new master code) *</td>
<td>Flashes slowly</td>
</tr>
<tr>
<td>If main relay time must be changed, substitute option 1 from Programming Options chart for step 2 above.</td>
<td></td>
</tr>
<tr>
<td>3. To Add/ change second code</td>
<td></td>
</tr>
<tr>
<td>Press 2 # (new user code) *</td>
<td>Flashes fast</td>
</tr>
<tr>
<td>Press (new user code) *</td>
<td>Flashes slowly</td>
</tr>
<tr>
<td>4. To Add/ change third code</td>
<td></td>
</tr>
<tr>
<td>Press 3 # (new user code) *</td>
<td>Flashes fast</td>
</tr>
<tr>
<td>Press (new user code) *</td>
<td>Flashes slowly</td>
</tr>
<tr>
<td>5. Up to 60 users may be added in this fashion</td>
<td></td>
</tr>
<tr>
<td>6. Exit programming mode</td>
<td>Press * Out</td>
</tr>
</tbody>
</table>

NOTES:
1. Door•Gard Self-Contained Access Control Systems are factory programmed with a master code of 1234 *.
2. The master code is always user 1.
3. The master code allows access to the programming mode & activates the main relay.
4. All codes must be followed by the *.
5. Codes may be from 1-6 digits in length, and digits may be repeated.
6. Users may be added in any combination i.e. 20 users require code only, 20 users require card only, 10 users require code and card, 10 users require code or card.
7. If the master code is forgotten or does not seem to be working, momentarily push SW1 (see wiring diagram for location) to enter programming mode and go to option #23 and default keypad.
8. If the yellow LED lights solid while in programming mode an error has occurred. Press * to clear.
1. Enter programming mode\textsuperscript{Note 1} Yellow LED
   Press 99 # (master code) * Flashes slowly
2. To Add/ change second user
   Press 2 #* * Flashes slowly
   Swipe card Flashes slowly
3. To Add/ change third user
   Press 3 #* * Flashes slowly
   Swipe card Flashes slowly
4. Up to 60 users may be added in this fashion
5. Exit programming mode
   Press * Out

NOTES:
9. If the Master Code is to be changed to a card only user, refer to the Programming Options Chart: Option 2
10. To add multiple users without returning to the keypav, refer to the Programming Options Chart:

1. Enter programming mode\textsuperscript{Note 1} Yellow LED
   Press 99 # (master code) * Flashes slowly
2. To Change master code\textsuperscript{Note 2}
   Press 1 # (new master code) * Flashes fast
   Press (new master code) * Flashes slowly
   Swipe card Flashes slowly
   If main relay time must be changed, substitute option 3 from Programming Options chart for step 2 above.
3. To Add/ change second code
   Press 2 # (new user code) * Flashes fast
   Press (new user code) * Flashes slowly
   Swipe card Flashes slowly
4. Up to 60 users may be added in this fashion

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### PROGRAMMING OPTIONS CHART

If the pre-programmed default values must be changed or additional functions are desired, the following options may be programmed once you have entered the programming mode.

1. Change master code/ set main relay time Code only operation\textsuperscript{Note 11}
   Example: Master code of 4321/relay time of 10 seconds
   Press (time) # 1 # (new code) * (new code) *
   Press 10 # 1 # 4321 * 4321 *
2. Change master code/ set main relay time Card only operation\textsuperscript{Note 11}
   Press (time) # 1 #* * (Swipe card)
3. Change master code/ set main relay time Code and Card operation\textsuperscript{Note 11}
   Press (time) # 1 # (new code) * (new code) *
   Swipe card
4. Add/ change user: code only
   Press (user number) # (new code) * (new code) *
5. Add/ change user: card only
   Press (user number) # * * (Swipe card)
6. Add/ change user: code and card
   Press (user number) # (new code) * (new code) *
PROGRAMMING OPTIONS CHART CONTINUED:

<p>| | | | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>7.</td>
<td>Add/change user to toggle main relay: code only</td>
<td>Press</td>
<td>(00) # (user number) # (new code) * (new code) *</td>
</tr>
<tr>
<td>8.</td>
<td>Add/change user to toggle main relay: card only</td>
<td>Press</td>
<td>(00) # (user number) # * * (Swipe card)</td>
</tr>
<tr>
<td>9.</td>
<td>Add/change user to toggle main relay: card and code</td>
<td>Press</td>
<td>(00) # (user number) # (new code) * (new code) * Swipe card</td>
</tr>
<tr>
<td>10.</td>
<td>Delete users</td>
<td>Press</td>
<td>(user number) # * *</td>
</tr>
<tr>
<td>11.</td>
<td>Turn keypress feedback/audible keypress on</td>
<td>Press</td>
<td>30 # 0 # 1 # * *</td>
</tr>
<tr>
<td>12.</td>
<td>Turn keypress feedback/audible keypress off</td>
<td>Press</td>
<td>30 # 0 # 0 # * *</td>
</tr>
<tr>
<td>13.</td>
<td>Turn auto entry on</td>
<td>Press</td>
<td>30 # 2 # 1 # * *</td>
</tr>
<tr>
<td>14.</td>
<td>Turn auto entry off</td>
<td>Press</td>
<td>30 # 2 # 0 # * *</td>
</tr>
<tr>
<td>15.</td>
<td>Energize Propped Door relay with any Track II card (ATM)</td>
<td>Press</td>
<td>31 # 0 # 1 # * *</td>
</tr>
<tr>
<td>16.</td>
<td>Turn above option (number 15) off</td>
<td>Press</td>
<td>31 # 0 # 0 # * *</td>
</tr>
<tr>
<td>17.</td>
<td>Energize Forced Door relay with any Track II card (ATM)</td>
<td>Press</td>
<td>31 # 1 # 1 # * *</td>
</tr>
<tr>
<td>18.</td>
<td>Turn above option (number 17) off</td>
<td>Press</td>
<td>31 # 1 # 0 # * *</td>
</tr>
<tr>
<td>19.</td>
<td>Energize Vestibule/ATM mode even on read error</td>
<td>Press</td>
<td>31 # 2 # 1 # * *</td>
</tr>
<tr>
<td>20.</td>
<td>Turn above option (number 19) off</td>
<td>Press</td>
<td>31 # 2 # 0 # * *</td>
</tr>
<tr>
<td>21.</td>
<td>Set propped door time Note 12</td>
<td>Press</td>
<td>44 # (time) # 0 # * *</td>
</tr>
<tr>
<td>22.</td>
<td>Set forced door relay time Note 12</td>
<td>Press</td>
<td>45 # (time) # 0 # * *</td>
</tr>
<tr>
<td>23.</td>
<td>Erase keypad memory/reset defaults</td>
<td>Press</td>
<td>46 # 00000 # 00000 # * *</td>
</tr>
<tr>
<td>24.</td>
<td>Add user for card or code operation</td>
<td>Press</td>
<td>52 # 1 # (user number) # code * code * (Swipe card)</td>
</tr>
<tr>
<td>25.</td>
<td>Sequentially add users: card only Note 13</td>
<td>Press</td>
<td>53 # 1 # (starting user number) # * * (Swipe first card) (swipe second card) etc..</td>
</tr>
</tbody>
</table>

NOTES:

11. Time must always be represented by 2 digits. Example: 5 seconds = 05. Latching/toggle is accomplished by entering a time of 00
12. Propped Door and Forced Door times must be programmed in intervals of 10 seconds. ie. 10, 30, 60, ... up to 900 seconds. Forced door time of 00 will latch output, until reset by code/card.