DOOR•GARD™

FEATURES AND PROGRAMMING GUIDE

SELF-CONTAINED ACCESS CONTROL SYSTEMS:

234 CARD READER/KEYPAD

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 Positition 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 Positition Sensor Loop, this relay will deenergize upon closure of the door.

ALARM ZONE SHUNT RELAY

Assisted by the Door Positition Sensor Loop, this 1 Amp, Form-C relay is energized simultaneously with the 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

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 verfied, 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 corrupt 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 OPTIONS CHART after you are familiar with the

1. Enter programming mode [Note 1] — Yellow LED
   Press 99 # (master code) * — Flashes slowly

2. To Change master code [Note 2]
   Press 1 # (new master code) * — Flashes fast
   Press (new master code) * — Flashes slowly
   If main relay time must be changed, substitute option 1 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

4. To Add/change third code
   Press 3 # (new user code) * — Flashes fast
   Press (new user code) * — Flashes slowly

5. Up to 60 users may be added in this fashion

6. Exit programming mode
   Press * — Out

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

(yellow LED should flash) and start over from

1. Enter programming mode [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 keypad, refer to the Programming Options Chart:

1. Enter programming mode [Note 1] — Yellow LED
   Press 99 # (master code) * — Flashes slowly
2. To Change master code [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.
2. To Add/change second code
   Press 2 # (new user code) * — Flashes fast
   Press (new user code) * — Flashes slowly
   Swipe card — Flashes slowly
3. To Add/change third code
   Press 3 # (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

5. Exit programming mode
   Press * — Out

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 [Note 11]	Press	(time) # 1 # (new code) * (new code) *
	Example: Master code of 4321/relay time of 10 seconds	Press	10 # 1 # 4321 * 4321 *
2.	Change master code/set main relay time Card only operation [Note 11]	Press	(time) # 1 # * * (Swipe card)
3.	Change master code/set main relay time Code and Card operation [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) *

Swipe card

PROGRAMMING OPTIONS CHART CONTINUED:

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

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.

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