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# KP232 Access Control Keypad

## Features and Programming Guide



KP232 Keypad offers field proven reliability and cost effective solutions for residential, commercial and industrial applications. Elegant yet durable, Schlage systems blend with virtually any décor. Designed for compatibility with virtually any electric locking device. Schlage keypads accept power from a 12 or 24 Volt AC/DC supply.

### Features

- Lock Release Relay And Timer
- Forced Door Alarm Relay
- Door Ajar Alarm Relay
- Alarm Zone Shunting Relay
- Remote Triggering Input (Rex)
- 120 Users
- Keypad Programmable

### Memory

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

### Programming

All programming is done entirely from the front of the keypad. LED or sounder guidance makes programming easy. It takes seconds for an authorized user to change codes.

### Codes

The KP232 Access Control keypads allow up to 120 individual user codes. Codes can be 1 to 6 digits in length and digits may be repeated. The Master Code is always stored in user location one (1).

### Main Relay (Lock Release)

The main relay is an SPDT form C relay, which you can program as a timed output (1 to 90 seconds) or to toggle (latch). See the Wiring Diagram and Specifications for the relay electrical specifications.

### Forced Door Relay

The Forced Door relay (SPDT, form C) energizes if the door position switch input, monitoring the door, is opened without entering a valid user entry or REX input. You can program the forced door timer to operate from 10 seconds to 15 minutes or to latch. You must enter a valid code to reset the relay.

### Door Ajar Relay

The Door Ajar relay (SPDT, form C) energizes if the door position switch input, monitoring the door, remains open after the propped door timer expires. You can program this timer 10 seconds to 15 minutes. The relay is reset when you close the door.

### Door Position Input

The keypad is equipped with a normally closed door position switch input, which is used to monitor the position of the door. After gaining valid access and the switch opens, the door immediately relocks preventing tailgating. This switch is also used for the forced door and propped door features.

### Remote Triggering Input (REX)

By default, upon a momentary closure this normally open loop triggers the main relay for the same time period as the Master Code. The door position switch input must be closed for it to operate.

### Keypress Feedback/Audible Keypress

KP232 Access Control keypads, by default, acknowledge a keypress by momentarily illuminating the yellow LED or activate the sounder. This depends on the model. You can turn this off through programming.

### Keypad Active Output

KP232 Access Control keypads can be programmed to energize a voltage output whenever a key is touched. You can use this to turn on lights, CCTV camera, or notify a guard. This output is not available if you are using the Schlage 250 Printer Interface.

### Auto Entry (not available on all styles)

This feature is used when you don't want to press the \* key after entering your code. You only need to enter your code number (without pressing \*) and the relay activates. To use this feature, the user codes must be the same length as the master code. Please remember to access program mode when auto entry is on, do not press the \* key (Press: 99 # master code), however the \* is required while entering programming commands.

### Audit Trail (not available on all styles)

Using the 250 Printer Interface (not included), you can get an accurate real-time audit trail. Up to 8 keypads can be monitored simultaneously. The 250 comes with a power supply and a printer cable and it easily connects to any parallel printer.



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## 1 Testing the Keypad

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 key presses are verified, the keypad enters self-test mode.
5. The yellow LED flashes/sounder beeps 3 times then turns on solid for 3 seconds.  
→ *Self-test mode can be used to troubleshoot a keypad in the field. If you do not get the continuous light, the memory has been corrupted and should be re-programmed with the default command (see option #16).*
6. Enter the master code (default = 1234) followed by the **\*** key and the relay energizes. Refer to programming section to program your keypad.  
→ *You can program your keypad in your shop or at the installation site. Programmed information is stored in non-volatile memory so it won't be lost if power is removed.*

## Access Control Defaults

Door♦Gard 232 Access Control keypads are designed for easy installation in a minimum amount of time. The following default settings are factory programmed:

Master Code (user 1):	1234
Main Relay Time:	5 seconds
Keypad Active Output:	Off
REX Triggers:	Main Relay
Keypress Feedback:	On
LED – Normal State:	Red
LED – Relay Energized:	Green
Auto-Entry:	Off
Forced Door Time:	10 Seconds
Door Ajar Time:	30 Seconds

If you must change the default settings or additional functions are desired, please refer to the Programming Options Chart after you are familiar with the Programming section.

## 2 Programming

- |  | Indicator <sup>a</sup>               |
|--|--------------------------------------|
| 1. <b>Enter programming mode</b><br>Press 99 # (master code) <b>*</b>  | Flash/Beep Slowly                    |
| 2. <b>To Change master code<sup>b</sup></b><br>Press 1 # (new master code) <b>*</b><br>Press (new master code) <b>*</b><br>→ <i>If you must change the Main Relay time, see option 2 on the Programming Options chart.</i> | Flash/Beep Fast<br>Flash/Beep Slowly |
| 3. <b>To Add/change second code</b><br>Press 2 # (new user code) <b>*</b><br>Press (new user code) <b>*</b>  | Flash/Beep Fast<br>Flash/Beep Slowly |
| 4. <b>To Add/change third code</b><br>Press 3 # (new user code) <b>*</b><br>Press (new user code) <b>*</b>   | Flash/Beep Fast<br>Flash/Beep Slowly |
| 5. <b>Up to 120 codes may be added in this fashion</b>   |                                      |
| 6. <b>Exit programming mode</b><br>Press <b>*</b>  | Off                                  |

### NOTES:

- a. Indicator refers to either the yellow LED or sounder.
- b. The master code is always stored in user location 1.
- c. The master code allows access to programming mode and activates the main relay.
- d. By default (auto-entry is off), all codes must be followed by the **\*** key.
- e. Codes may be from 1-6 digits in length, and digits may be repeated.
- f. If you forgot the master code or it is not working, momentarily push SW1, (see wiring diagram for location) to enter programming mode and go to option #16 on the Programming Options chart to default keypad.
- g. If the yellow LED lights solid or sounder is on steady while in programming mode, an error has occurred. Press **\*** to clear (yellow LED should start flashing) and start over from step 2 or 3 above.

### Programming Options Chart

If the pre-programmed default values must be changed or additional functions are desired, the following options may be programmed.

- |  |   |
|--|---|
| 1. Enter programming mode  | Press 99 # (master code) *  |
| 2. Change master code/set main relay time <sup>1</sup><br><b>Example: relay time of 10 seconds/Master code of 4321</b> | Press (time) # 1 # (new code) * (new code) *<br><b>Press 10 # 1 # 4321 * 4321 *</b> |
| 3. Add/change user code  | Press (user number) # (new code) * (new code) *                                     |
| 4. Add/change user code to toggle main relay <sup>1</sup>  | Press (00) # (user number) # (new code) * (new code) *                              |
| 5. Delete user codes   | Press (user number) # **  |
| 6. Turn keypress feedback/audible keypress on  | Press 30 # 0 # 1 # **   |
| 7. Turn keypress feedback/audible keypress off   | Press 30 # 0 # 0 # **   |
| 8. Turn yellow LED/sounder on with relay   | Press 30 # 1 # 1 # **   |
| 9. Turn yellow LED/sounder off with relay  | Press 30 # 1 # 0 # **   |
| 10. Turn auto entry on <sup>2</sup>  | Press 30 # 2 # 1 # **   |
| 11. Turn auto entry off <sup>2</sup>   | Press 30 # 2 # 0 # **   |
| 12. Turn keypad active on <sup>3</sup>   | Press 43 # 0 # 99 # **  |
| 13. Turn keypad active off <sup>3</sup>  | Press 43 # 0 # 00 # **  |
| 14. Set door ajar time <sup>4</sup>  | Press 44 # (time) # 0 # **  |
| 15. Set forced door time <sup>4</sup>  | Press 45 # (time) # 0 # **  |
| 16. Erase keypad memory/reset defaults   | Press 46 # 00000 # 00000 # **   |
| 17. Exit programming mode  | Press *   |

#### NOTES:

- Relay times must always be represented by 2 digits. Example: 5 seconds = 05. Latching /toggle is accomplished by entering a time of 00.
- Auto-Entry is not available on all models. For two-piece units, please refer the front end keypad programming instructions provided with those units.
- Keypad active is a negative voltage output (sink) available on terminal (or wire) marked WB (see wiring diagrams for location).
- Door ajar and forced door times must be programmed intervals of 10 seconds (ie. 10, 30, 60 seconds). The timers can be programmed from 10 to 900 seconds. Entering a time of 00 for forced door latches the output until it is reset by a code.

## KP232 Access Control System Styles

### KP232i Indoor Style

- Flushmount, indoor design

### KP232w Weather Resistant Style

- Flushmount, outdoor design

### KP232r Ruggedized Style

- Weather resistant 232 metal housing
- Vandal resistant
- Cast metal housing suitable for wall, post or gooseneck mounting
- Available in white or black
- 4 On-Board relays

### KP232se Sealed Environmental Style

- Weather resistant 232 metal housing
- Vandal resistant
- Design suitable for residential, commercial and industrial applications
- 4 On-Board Relays
- Available in Bronze or Satin Aluminum

### KP232 Multipad Backlit Style

- Two-piece design with secured electronics.
- Narrow housing suitable for door frame mounting
- Available in Bronze or Satin Aluminum

### KP233 Card Reader

- Weatherproof metal housing
- Two-piece design with secured electronics.
- Narrow housing suitable for door frame mounting
- Uses any ABA standard track II magstripe cards

## ACCESSORIES

### Data Logging

- Schlage-250 PRINTER INTERFACE provides power, communication inputs and outputs for up to 8 Door Gard keypads. Interfaces with any parallel printer for user/door activity logging

### Installation

- Schlage-280 WEATHERPROOF SURFACE BACK BOX
- Schlage-281 FLUSH MOUNT BACK BOX
- Schlage 12 or 24 VDC 1A PLUG-IN POWER SUPPLIES

## Other Products from Schlage

### 2000 Series Multi-Function Access Control Keypads

The 2000 Series access control keypads combine all of our functionality groups into one powerful platform. They manage up to 500 users, monitor door position, control locking hardware, trigger propped or forced door alerts and have an alarm shunt output. The output expansion module [p/n 2000-8EX] provides 8 additional outputs for a system total of 10 outputs. The 2000 series also operates as a keypad front end to Schlage access systems and most Wiegand controllers.

2000e – Backlit Hardened Keys      2000eM – Metal Braille Keys

### KP212 Series Keypads

KP212i Indoor Keypad  
KP212w Weather-Resistant Keypad  
KP212se Sealed Environment Keypad  
KP212r Ruggedized Keypad  
KP212 Mullion Keypad

### Features

- 4 Independent Outputs
- 4 Independent Outputs
- All Outputs Assignable by code
- Keypad Programmable
- Remote Triggering Input

### Control Panel Access Control Systems

240 Battery Operated Keypad-Direct keyswitch replacement (for indoor use)  
262B The Partitioner 232 2-zone control

### Powergard Power Supplies

PG1224-3: 12/24VDC 2.5 Amp Power Supply  
PWRTMPR-12: 12VDC, 1 Amp Power Supply (has built-in tamper circuit that detects when the keypad is removed from the wall and keeps the door secure)

If this product does not seem to operate properly, please call our Technical Support Department toll free at 1-877-671-7011. We understand your time is valuable and we know that calling our Technical Support Department will ensure that you'll make the most profit possible with your Schlage product. Thank you for your purchase. We appreciate your business.

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