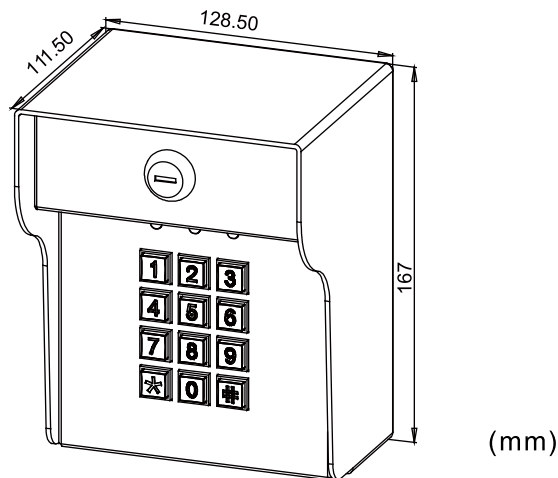


# DG-200-4

## Stand Alone Digital Keypad Operation Manual



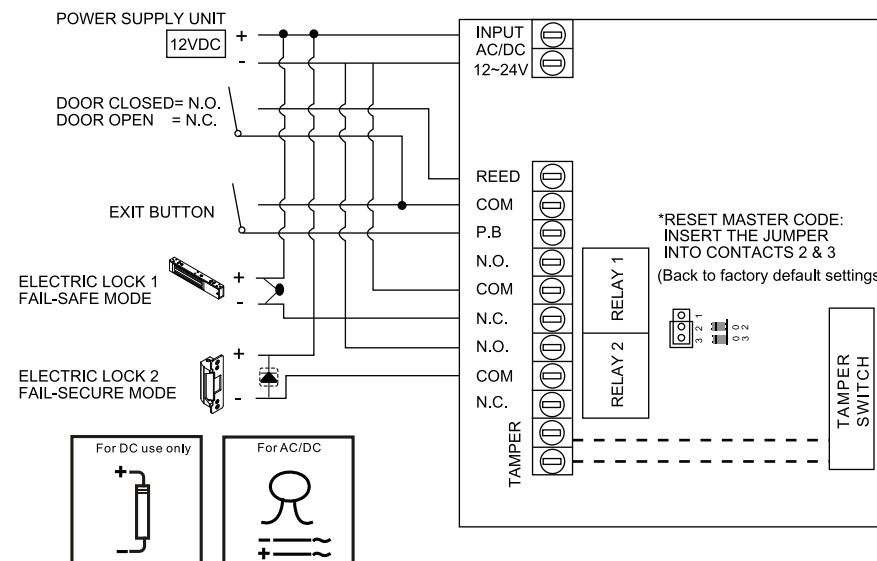
- Allows up to 200+10 PINs.
- A maximum of 20-digit PIN to avoid peeping.
- Keypad lockout for 60 seconds after entering invalid PINs for 5 times in a row.  
(The keypad doesn't beep during the period of time.)
- 3 LED indicators & buzzer for status indication. Keypad with beep sound
- Metal case, stainless steel faceplate & mechanical key switch. Easy to wire up & maintain. Weatherproof & suitable for outdoor applications.
- After the door is closed, relock time delay may be shortened to avoid tailgating.
- Non-volatile memory stores all code settings for a long time, even in the event of total power failure.
- Dual relays to control door lock and other security devices.
- Built-in tamper switch.

1. Enter programming mode.
2. Press \* 000 + XXXX 4-digit master code (1 beep, yellow LED stay on).
3. Press # (2 beeps) back to programming mode.
4. Press # again (2 beeps) back to standby mode (slow yellow LED flash).

### 8. Keypad Backlight Mode

1. Enter programming mode
2. Press \* 555 (rapid yellow LED flash)
3. Backlight mode off: Enter 0 (1 beep, rapid yellow LED flash)  
Backlight mode on: Enter 1 (1 beep, rapid yellow LED flash)  
Backlight for 10 seconds: Enter 2 (1 beep, rapid yellow LED flash)
4. Press # (1 beep) back to programming mode
5. Press # again (2 beeps) back to standby mode (slow yellow LED flash)

### ■ Wiring Diagram



### ■ NOTE:

1. It is suggested to use #22~26 AWG insulation wire.
2. The door strike or relay must have a varistor or a diode across the door strike terminals to suppress the back EMF of the strike - failure to do so will damage the relay contacts and electronic components, or even burn the controller

### ■ Warranty:

The product is warranted against defects in material and workmanship while used in normal service for a period of 1 year from the date of sale to the original customer. The GEM policy is one of continual development and improvement; therefore GEM reserves the right to change specifications without notice.

## Specifications

Operating Voltage	12~24VAC/DC
Current Draw	Pull-In: 120mA, Holding : 40mA, 12VAC/DC Pull-In: 70mA, Holding : 30mA, 24VAC/DC
Keypad	4X3 matrix backlit (0~9, *, #)
Input	1 contact for Request-To-Exit button 1 contact for Door Reed Switch
Output	2 relays (N.O. / N.C. / Com. Dry contacts)
Relay Electric Current	Max. 12A/14VDC, 7A/120VAC
Memory Volume	200+10 PINs
Relay Strike Time	01~99 seconds, Toggle mode(00)
LED Status Indication	3 LED indicators display (Red/Yellow/Green)
Ambient Humidity	5%~95% (Non-condensing)
Operating Temperature	-20°C~+70°C

## Status Indication

	Mode	Status
LED	Green	First relay active
	Red	Second relay active
	Yellow	Normal (Power On)
Beep	1 Short Beep	Key in
	1 Long Beep	Valid PINs
	2 Beeps	Enter / exit programming mode
	3 Beeps	Incorrect input
	26 Beeps	Reset master code to default value (1234) & clear all PINs (Back to factory default settings)

## Factory Default Setting

Master Code	1234 (4 digits)
Relay Strike Time (Time Delay Setting)	5 seconds
Pressed Key Time Delay	5 seconds (Fixed)
Programming Mode Time Delay	25 seconds (Fixed)
PIN length	4 digits (Fixed)

## Operation Instruction

### 1. Enter programming mode

Enter the master code twice 1234 1234 to enter programming mode (1 beep, rapid yellow LED flash). (If no data is entered within 25 seconds, the system will exit programming mode; or press # to exit the programming mode).

### 2. Set the Relay Strike Time

The relay strike time determines the amount of time that the door remains unlocked after a valid PIN is entered.

NOTE: Entering 00 will set the relay strike time to 0 second (relay set to toggle mode).

Entering 05 will set the relay strike time to 5 seconds, and so on

1. Enter programming mode
2. Press \*300 for Relay 1 (rapid green LED flash) → Enter 00~99 (1 beep, green LED stay on)  
Press \*400 for Relay 2 (rapid red LED flash) → Enter 00~99 (1 beep, red LED stay on)
3. Press # (1 beep) back to programming mode
4. Press # again (2 beeps) back to standby mode (slow yellow LED flash)

### 3. Clear Memory of All PINs of Relay 1

1. Enter programming mode
2. Press \*888 (green LED stay on)
3. Press 00 (rapid green LED flash, 15 beeps)
4. Press # (1 beep) back to programming mode
5. Press # again (2 beeps) back to standby mode (slow yellow LED flash)

### 4. Clear Memory of All PINs of Relay 2

1. Enter programming mode
2. Press \*999 (red LED stay on)
3. Press 00 (rapid red LED flash, 15 beeps)
4. Press # (1 beep) back to programming mode.
5. Press # again (2 beeps) back to standby mode (slow yellow LED flash)

### 5. Add PINs to Relay 1

a:

1. Enter programming mode to select slot position \*001~\*200 (rapid green LED flash to indicate the slot position is available)
2. Enter new PIN (1 beep, green LED stay on)
3. Press # (1 beep) back to programming mode
4. Press # again (2 beeps) back to standby mode (slow yellow LED flash)

b:

1. Enter programming mode to select slot position \*001~\*200 (green LED stay on to indicate the slot position is unavailable)
2. Press 0000 (1 beep) to delete the data from the slot position (rapid green LED flash)
3. Repeat the steps of 5-a to add new PIN

### 6. Add PINs to Relay 2

a:

1. Enter programming mode to select slot position \*201~\*210 (rapid red LED flash to indicate the slot position is available)
2. Enter new PIN (1 beep, red LED stay on)
3. Press # (1 beep) back to programming mode
4. Press # again (2 beeps) back to standby mode (slow yellow LED flash)

b:

1. Enter programming mode to select slot position \*201~\*210 (red LED stay on to indicate the slot position is unavailable)
2. Press 0000 (1 beep) to delete the data from the slot position (rapid red LED flash)
3. Repeat the steps of 6-a to add new PINs

### 7. Change Master Code