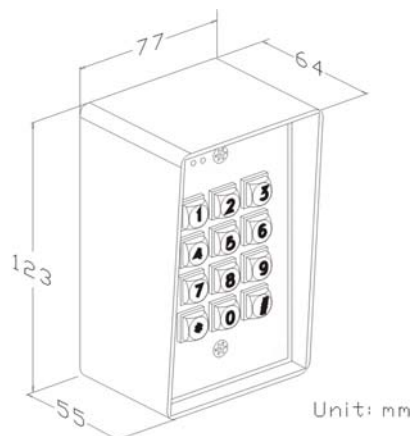


DG-15 series Digital Keypad Entry system Operation User's Manual

1. Specifications:

- ◆ Operating Voltage: 12~24Vdc
- ◆ Current Draw: Average 15mA, Peak 100mA @ 12Vdc
- ◆ Input: request-to-exit, time out reed switch contact
- ◆ Output: Dual relays, N.O./N.C./Com. Output (free voltage contact)
- ◆ Relays Electric Current: 2A MAX @30Vdc : 0.4A @ 120Vac
- ◆ Relay Activation Time:
 - Relay 1 time delay setting code 「 *30 」 · Relay 2 setting code 「 *31 」
 - Strike Time: 1~99 seconds (adjustable)
 - Strike mode: Access Timer or Latch
- ◆ Memory Volume: 20+1 PIN codes
 - Relay 1 is controlled by *01~*20 user slots
 - Relay 2 is controlled by *21 user slots
- ◆ Operating Temperature: -20~+70°C
- ◆ Ambient Humidity: 5~95% relative humidity non-condensing
- ◆ Factory Master Code: 12345
- ◆ Invalid PIN Lock-out: The system will shut down for 60 seconds while 30 codes of incorrectly Master Codes enrolled or PIN codes attempted (None beeper signal of keypad activations) .
- ◆ EPROM: Non-volatile memory, System will retain all programs and codes after a total loss of power.
- ◆ The indicator signal chart:



LED signal		Sound signal	
Red LED	Power on, stand-by	1 Beep	Effective PIN codes · Any key pressed
Green LED	Relay 1 activated	2 Beeps	Entering · Exiting from the Program mode
Yellow LED	Relay 2 activated	3 Beeps	Data computing error
		5 Beeps	Master Code reset to Factory (12345)

2. Operation Instruction:

- ◆ Enter Program Mode:
 1. Compose twice the master code (4 digit format press 「 1234 」 · 5 digit format press 「 12345 」) → 2 beeps → you are now in the "programming mode".
 2. After 60 seconds if you have not entered any codes or data, the system will automatically exit from the programming mode.
- ◆ Exiting from the program mode:
 1. Press 「 # 」 to exit from the programming mode.
 2. After 30 wrong codes attempts at the master code the lockout facility will operate.
- ◆ Add PIN codes

Enter the Programming mode, Enter the slot position code 「 *01~*20 」 →????? Input 5 digit (or 4 digit) PIN codes→ (beep) enrolled → (repeat)

Press 「 # 」 to exit from the programming mode, or program other operating.

Note 1: The codes 「 0000 」 , 「 00000 」 , 「 1234 」 , 「 12345 」 or master code are not be used for PIN code.

Note 2: Relay 2 is controlled by *21 user slots
- ◆ To Delete a User Code :

Enter the Programming mode→ Press the slot position code of your choice to delete (example "06") →Press 「 *06 」 →「 0000 」 (or 「 00000 」) → (beep) →delete→Press 「 # 」 to exit from the programming mode, or programming other operating.
- ◆ To Program Relocking Timer

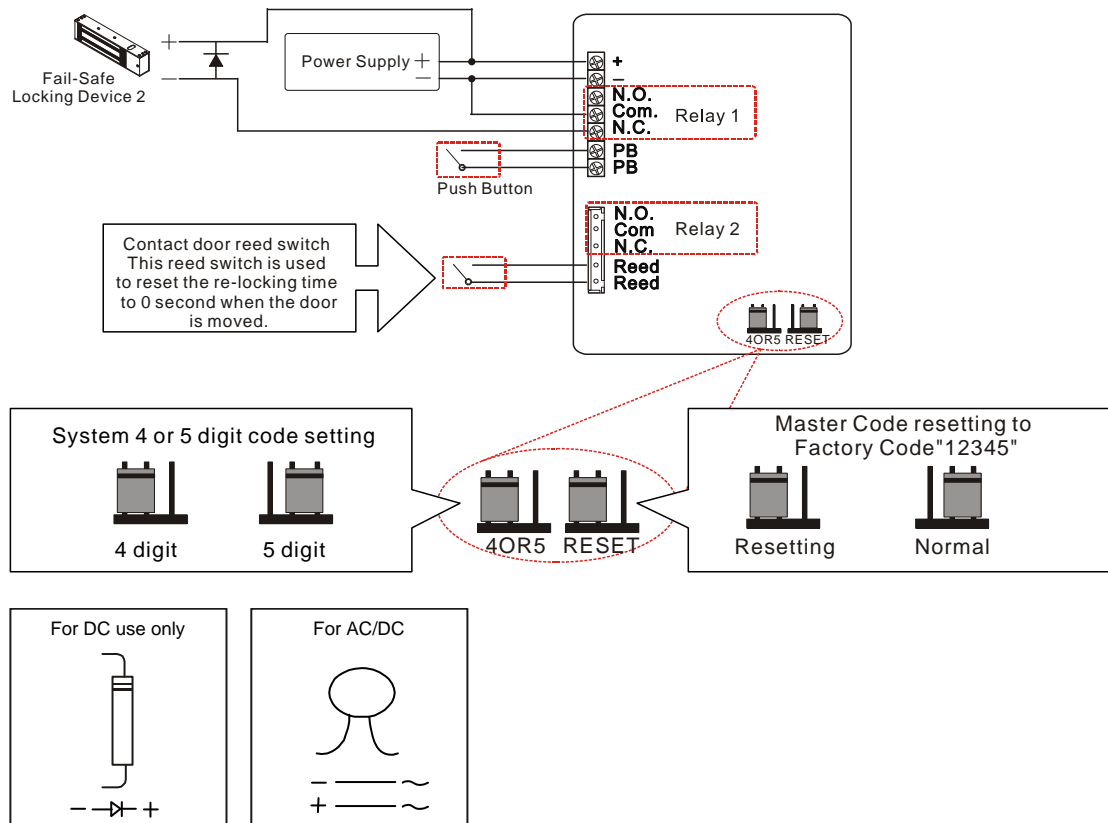
Enter the Programming mode,

 - A. Relay 1 : Press 「 *30 」 Followed by the number of seconds the relay should open→ 「 05 」 =5 seconds (01 ~99 = seconds, 「 00 」 Sets the relay to latching mode) → (beep) →enrolled → Press 「 # 」 to exit from the programming mode, or program other operating.
 - B. Relay 2 : Press 「 *31 」 Followed by the number of seconds the relay should open) → 「 05 」 =5 seconds (01 ~99 = seconds, 「 00 」 Sets the relay to latching mode). → (beep) →enrolled → Press 「 # 」 to exit from the programming mode, or program other operating.
 - C. Latching mode: Correct code entered opens the relay, and the relay stays open until the correct code is entered again.
- ◆ Changing the Master codes:

Enter the Programming mode, Enter 「 *00 」 Followed by the new 4 digit (or 5 digit) master code→ (beep) →enrolled→Enter 「 # 」 to exit from the programming mode, or program other operating.

- ◆ Reset to Factory Default Master Code
 - Master Code reset to Factory Default Master Code 「12345」
 - Insert the jumper RESET → 1-2 position → 5 audible beeps → Reset successful → Return the jumper to 2-3 position
 - Remove all Stored Information
 - Insert the jumper RESET → 1-2 position → 5 audible beeps → Master Code reset to Factory Default Master Code 「12345」 → after 5 seconds → 5 audible beeps → Remove all stored information → Return the jumper to 2-3 position.
- Note: If you only wish to reset the Master Code to the Factory default, remove the jumper after exactly 5 audible beeps, otherwise all cards / codes will be deleted.

3. Wiring diagram:



Note:

- ◆ Egresses switch should be N.O. type.
- ◆ REED contact input for anti-tailgating (Relay 1) . Contact door reed switch, this reed switch is used to reset the re-locking time to 0 second when the door is moved. Using N.O. contact in case of door closed changeover to N.C. When door is moved.
- ◆ The door strike 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.
- 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. GEM policy is one of continual development and improvement therefore GEM reserves the right to change specifications without notice.

Warranty:

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Programming the DG keypad

To program the DG keypad you will need to enter the program mode by entering the master code twice

The default master code is 1234, so you would press 1234 1234 (twice)
You will hear 2 beeps to confirm you are now in the programming mode

If you do not press any button for 60 seconds the keypad will exit from the programming mode

To manually exit from the programming mode press the # key

To enter a user code – example code 9999

Enter the programming mode by pressing 1234 1234

Enter *01 – this is user code position 1, *02 – this is user code position 2, and so on

So enter: *019999# - this means *01 (for user code 1) 9999 – this means the code number you have chosen
- this exits you from the programming facility

The keypad will beep to confirm the user code

Enter 9999 – this will operate the keypad

To delete a user code – example code 9999

Enter the programming mode by pressing 1234 1234

Enter: *019999# the keypad will beep to confirm the deletion

Enter 9999 – this will not operate the keypad

To program the lock release timer

Enter the programming mode by pressing 1234 1234

Enter *20 followed by the number of seconds you require, for 5 seconds you would enter 05

So enter: *2005# The keypad will beep to confirm your action

Enter 9999 and the keypad green LED will light up for 5 seconds

To change the master default code of 1234 to 5678 (or your chosen number)

Enter the programming mode by pressing 1234 1234

Enter *00 followed by 5678 (or your chosen number) then #

The keypad will beep to confirm the new master code