DG-195

Touch Panel Keypad Operation Manual

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Unit : mm

GEM
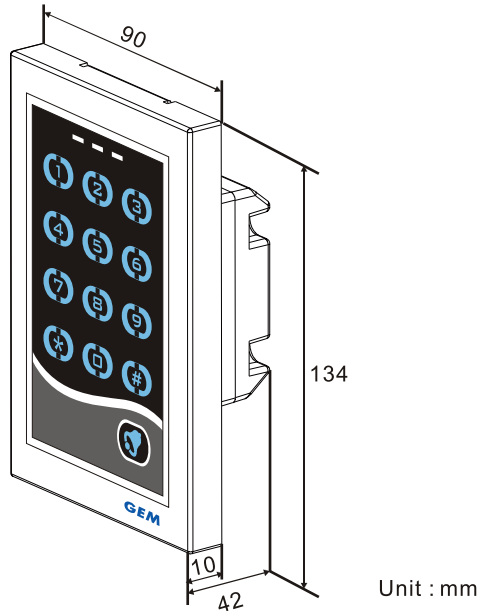
▣ Features

1. Allows up to 99 access PINs.
2. 3-LED indicator, buzzer and keypad beep sound.
3. Lockout function:lockout for 30 seconds after entering invalid PINs for 5 times(The keypad doesn't beep during the period of time.) or entering maximum 20-digit pass word to avoid peeping.
4. Non-volatile memory keeps PINs even when the power fails or the keypad is not used for a long time.
5. Built-in anti-tamper switch.
6. AUX signal output can connect to alarm system.
7. Suitable for British standard and ANSI gang boxes for mortise mount.
8. Anti-tailgating function: relock time may be shortened to avoid tailgating.

▣ Specification

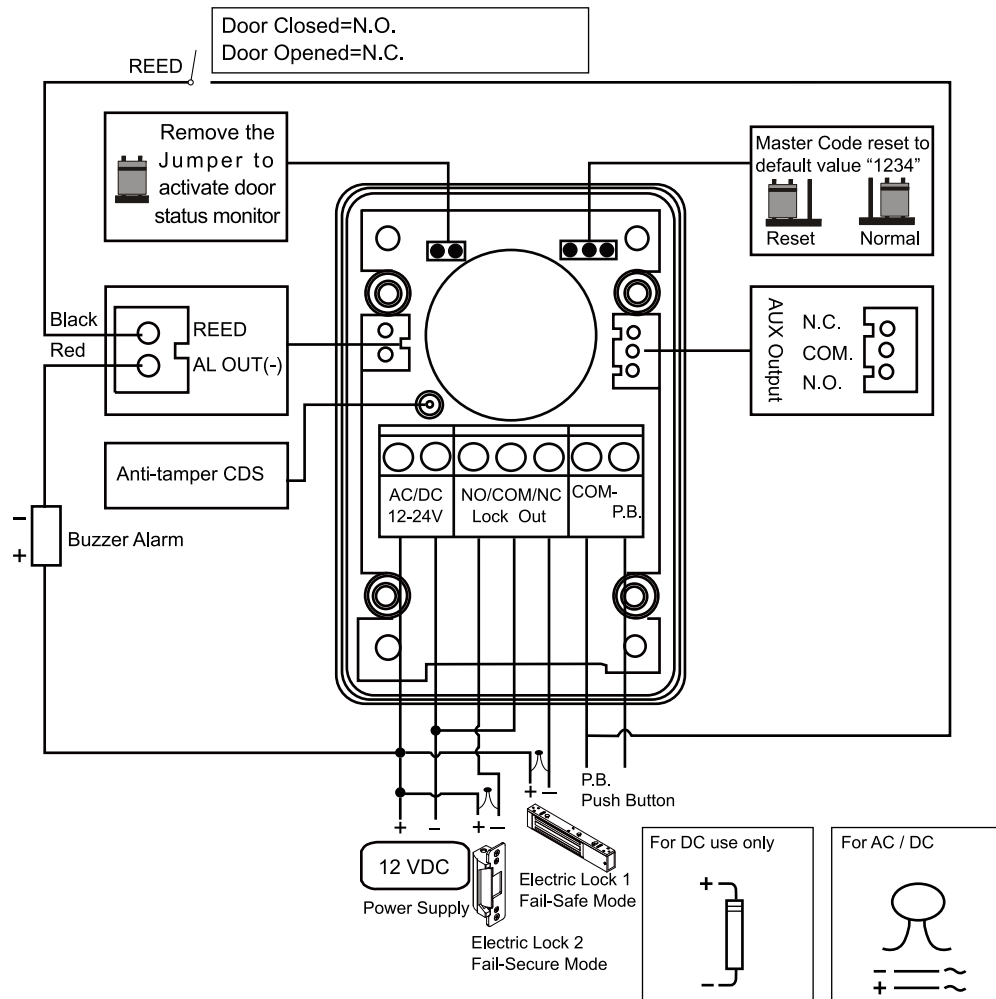|	
Operating Voltage	12~24VDC/AC
Current Draw	Pull in: 220mA/12VDC；Holding:110mA/12VDC Pull in: 100mA/24VDC；Holding:50mA/24VDC
Keypad	4X3+1 matrix (0~9, ＊, ＃, ✎)
Input	1 contact for Request-To-Exit button
Output	1 relay (N.O./N.C./Com. dry contacts)
PIN length	4~8 digits (master code & PINs must be of the same length)
Relay Electric Rating	MAX.2A/30VDC
Memory Volume	99 PINs
Relay Strike TIme	01~99 seconds,Toggle mode (00)
LED Status Indication	3 LED indicators display (Red & Left Yellow/ Green/ Right Yellow)
Ambient Humidity	5%~95% (Non-condensing)
Operating Temperature	-20°C~+70°C

▣ Status Indication & Default Setting Parameters

	Mode	Status
LED	Green	Relay active
	Right Yellow	AUX Output active
	Red	Normal (Power On)
Beep	1 Short Beep	Press Key
	2 Beeps	Valid PINs
	3 Beeps (Da,Da,Da)	Enter programming mode;setting completed
	1 Long Beep (Da)	Incorrect input
	1 Longer Beep	Reset

Factory Default Setting：

Master Code	1234 (4 digits)
Relay Strike Time (Time Delay Setting)	5 seconds
Pressed Key Time Delay	30 seconds (Fixed)
Programming Mode Time Delay	90 seconds (Fixed)

▣ Wiring Diagram

Door Closed=N.O.
Door Opened=N.C.

REED

Remove the Jumper to activate door status monitor

Master Code reset to default value "1234"

Reset   Normal

Black
Red

REED
AL OUT(-)

AUX Output

N.C.
COM.
N.O.

Anti-tamper CDS

Buzzer Alarm

AC/DC 12-24V   NO/COM/NC Lock Out   COM- P.B.

P.B. Push Button

12 VDC
Power Supply

Electric Lock 1 Fail-Safe Mode

Electric Lock 2 Fail-Secure Mode

For DC use only

For AC / DC

Note：

1. We suggest you apply single voltage power supply unit and beware of AC or DV version of the connecting locks.
2. Use # 22~26 AWG insulation wire.
3. Exit button is at N.O. contact.
4. With CE qualification EMC specification.
5. Door locks and relays must have a varistor or diode across the door lock terminals to suppress back EMF. Failure to do so will damage the relay contacts and electronic components or even burn the controller.
6. AL OUT (-): connecting to DC; 500mA/12VDC output on negative electrode; giving off alarm signal when connecting to warning light or siren.

▣ Operation Instruction

1. Master Code

The master code comprises four-digit number and is used to access programming functions of the touch panel keypad and cannot be used to gain access i.e. It cannot be the same as other PINs, AUX and Bypass codes. The default master code is set as 1234. Under normal operation the keypad is used for entering PIN to gain access. In the programming mode the keypad can be used to add/delete PINs, set strike time and other operation functions.

2. Enter programming mode

Press the default master code twice"1234,1234" to enter programming mode. (Left Yellow LED on)

3. Exit programming mode

Press #, back to stand by mode. (Left Red LED on).

4. Change Master Code Length (default 4-digit: 1234)

1. Enter programming mode
2. Press ＊00
3. Press 4~8 digits
4. Exit programming mode
   (After the length of Master Code is changed, all PINs AUX and Bypass codes whose length is not the same as Master Code will be cleared. Otherwise, the PINs will be saved.)

5. Add/ Change PINs

1. Enter programming mode
2. Press ＊ (slot position 01~19)
   Press ＊ 6 (slot position 20~99)
3. Enter a new PIN (4~8 digits)
4. Exit programming mode (PINs, AUX and Bypass codes must not be the same as master code.)

6. Clear PINs

1. Enter programming mode
2. Press ＊50 (slot position 01~99)→to clear individual PIN
   Press ＊50 and 00→ to clear all PINs
3. Exit programming mode

7. Set Relay Strike Time (default: 5 seconds)

1. Enter programming mode

2. Press ＊20

3. Press 00~99 (press 05 = 5 seconds and so on)

4. Exit programming mode

(Pressing 00 will set the strike time to 0 second, i.e. toggle mode.)

8. Activate Keypad lockout function (default: deactivated)

1. Enter programming mode

2. Press ＊51

3. Exit programming mode

(Repeating the above steps will deactivate the function.)

9. Change PIN entering mode (default: 0)

1. Enter programming mode

2. Press ＊53 and then 0 → to enter up to 20 digits. The keypad will lockout for 30 seconds if the 20-digit code doesn't contain a valid PIN.

Press ＊53 and then 1 → to give off alarm after entering a wrong PIN. The keypad will lockout for 30 seconds after entering 5 invalid PINs.

3. Exit programming mode

10. Change operation mode (default: 0)

1. Enter programming mode

2. Press ＊52 and then 0 (ordinary mode)

Press ＊52 and then 1 (bypass mode, also toggle mode)

3. Exit programming mode

11. Add PIN to bypass mode

1. Enter programming mode

2. Press ＊54

3. Press 4~8 digits

4. Exit programming mode

12. Turn on/off alarm output function (built-in buzzer and ALOUT (-), entering a valid PIN to deactivate the alarm,default: 0)

1. Enter programming mode

2. Press ＊55 and then 0 → to turn off the function

Press ＊55 and then 1 → to turn on intrusion alarm function

Press ＊55 and then 2 → to turn on tampering alarm function

Press ＊55 and then 3 → to turn on both intrusion and tampering alarm functions

3. Exit programming mode

AL OUT (-): connecting to DC; 500mA/12 VDC output on negative electrode; giving off alarm signal when connecting to warning light or siren

13. Change alarm output time (default: 030)

1. Enter programming mode

2. Press ＊56

3. Press 000~999 (Press 000 = toggle mode; press 005 = 5 seconds, and so on.)

4. Exit programming mode

14. Turn on/off AUX signal output function (default: 7)

1. Enter programming mode

2. Press ＊57 and then 0 → to turn off the function

Press ＊57 and then 1 → to turn on door status output

Press ＊57 and then 2 → to turn on wrong PIN output

Press ＊57 and then 3 → to turn on door bell output (Pressing) and ＊ on the touch screen will produce the same output.)

Press ＊57 and then 4 → to turn on tampering alarm output

Press ＊57 and then 5 → to turn on intrusion alarm output (The above output time must not be set as 000.)

Press ＊57 and then 6 → to turn on exit button output and valid PIN output

Press ＊57 and then 7 → to turn on AUX PIN output (emergency call)

3. Exit programming mode

15. AUX output time delay (default: 000)

1. Enter programming mode

2. Press ＊58

3. Press 000~999

4. Exit programming mode

(Press 000 = toggle mode; press 005 = 5 seconds, and so on.)

16. Add AUX output PIN

1. Enter programming mode

2. Press ＊40

3. Press 4~8 digits

4. Exit programming mode

17. Reset to default settings

Turn off the power. Connect the jumper at System Restore on the circuit board. Turn on the power (long beep). All settings are back to default values. Remove the jumper.

▊ Annex: User List

User	User Name	Slot Number	PIN #
1			
2			
3			
4			
5			

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.

CE R&HS Compliant