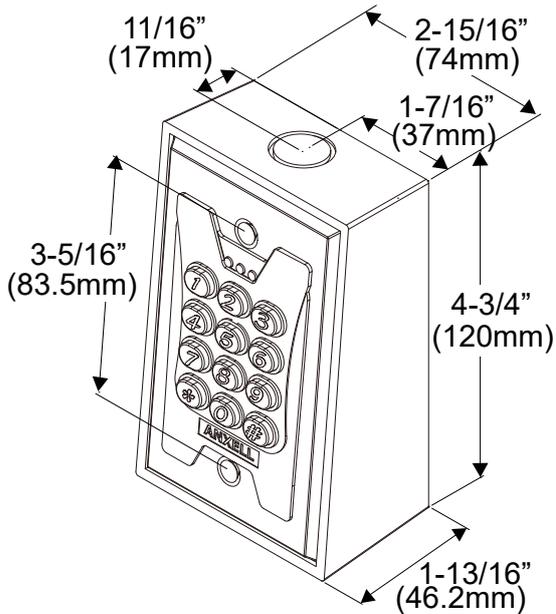
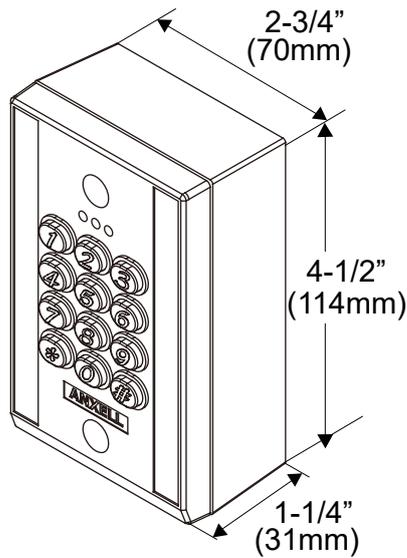


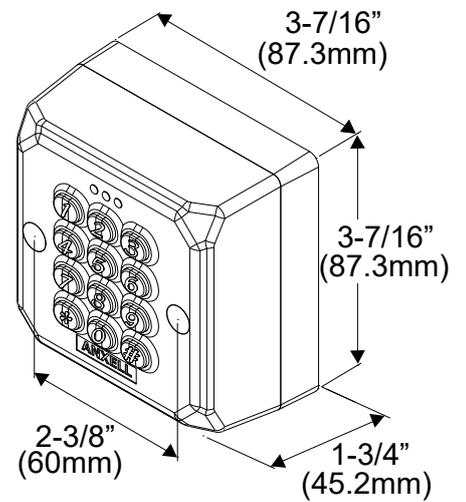
Standalone Digital Keypads DG-110L/120L/130L Operation Manual



DG-110L



DG-120L



DG-130L

I. Features

- ◆ 50 Users, 4 digit PIN codes.
- ◆ 3 LED indicators and built-in buzzer for status programming feedback.
- ◆ Audible code entry verification.
- ◆ Maximum 29 digit PIN code length to avoid spying.
- ◆ Adjustable timer output, 1-99 seconds or latching.

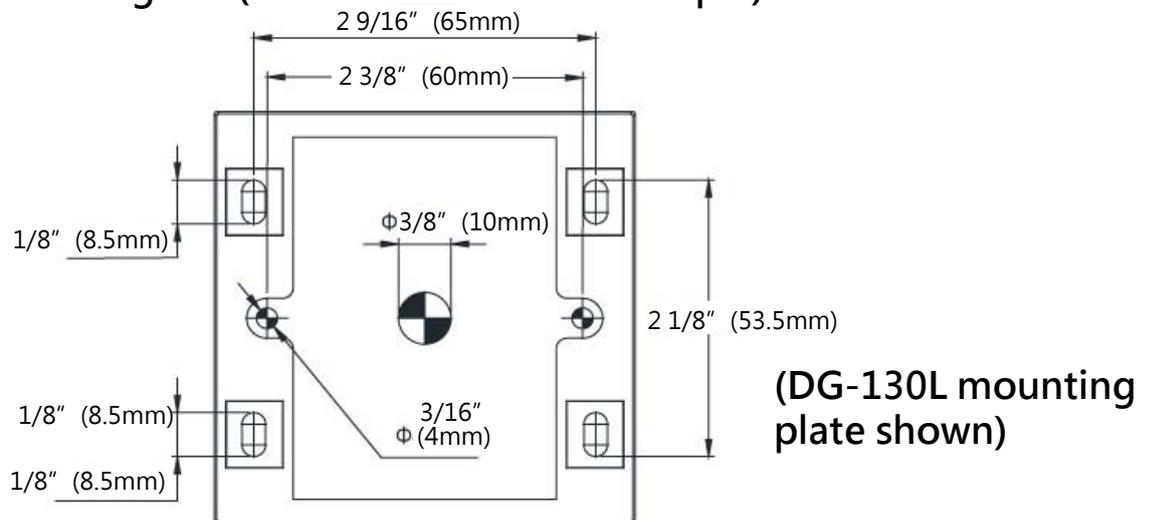
II. Specifications

| | |
|------------------------|--|
| Operating Voltage | DC 12~24V |
| Current Draw | Holding:15mA · Pull in: 60 mA @12VDC |
| Keypad | 4X3 matrix backlit keypad, 12 buttons (0~9, *, #) |
| LED Status Indication | 3 LED indicator display (Red/Yellow/Green) |
| Input | 1 contact for Request-To-Exit button (N.O.) |
| Output | 1 relay(Dry contacts: N.O./N.C./Com.) |
| Relay Strike Time | 01~99 seconds or Toggle Mode (00) |
| Relay Electric Current | 0.4A @ 120VAC or 2A@30 VDC |
| Memory Volume | 50 User codes (* 01~ * 50) |
| EPROM | Non-volatile memory protects programmed information in case of power loss. |
| Casing Material | DG-110L: Stainless steel plate, ABS back box; DG-120L/130L: ABS |
| Ambient Humidity | 0%~95% (Non-condensing) |
| Operating Temperature | -20°C~+70°C |

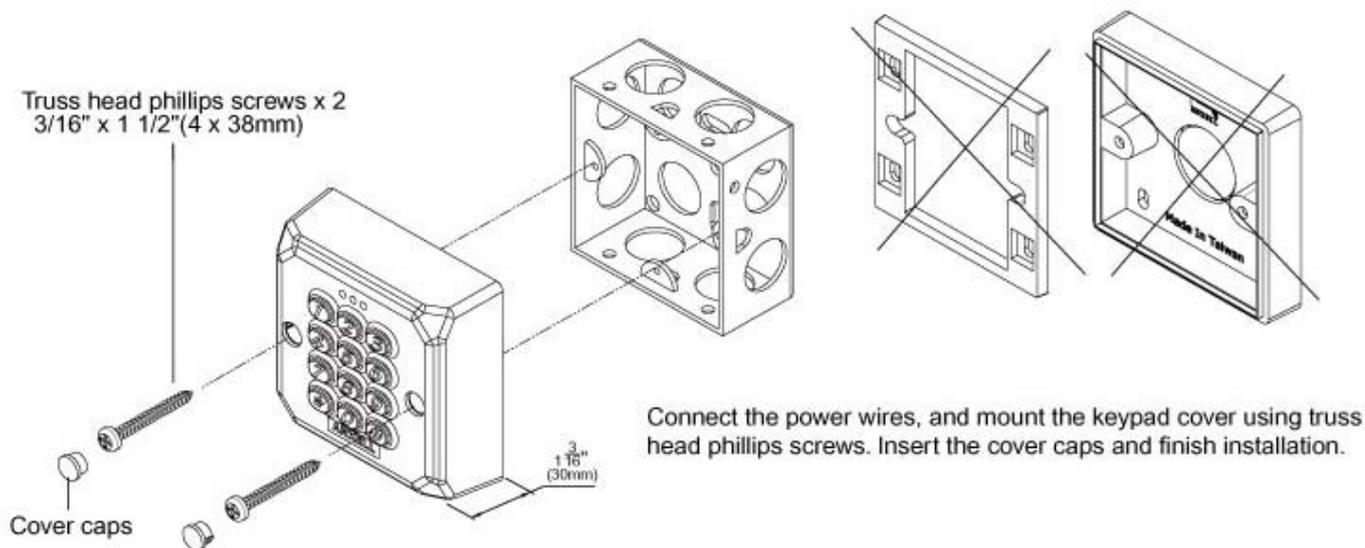
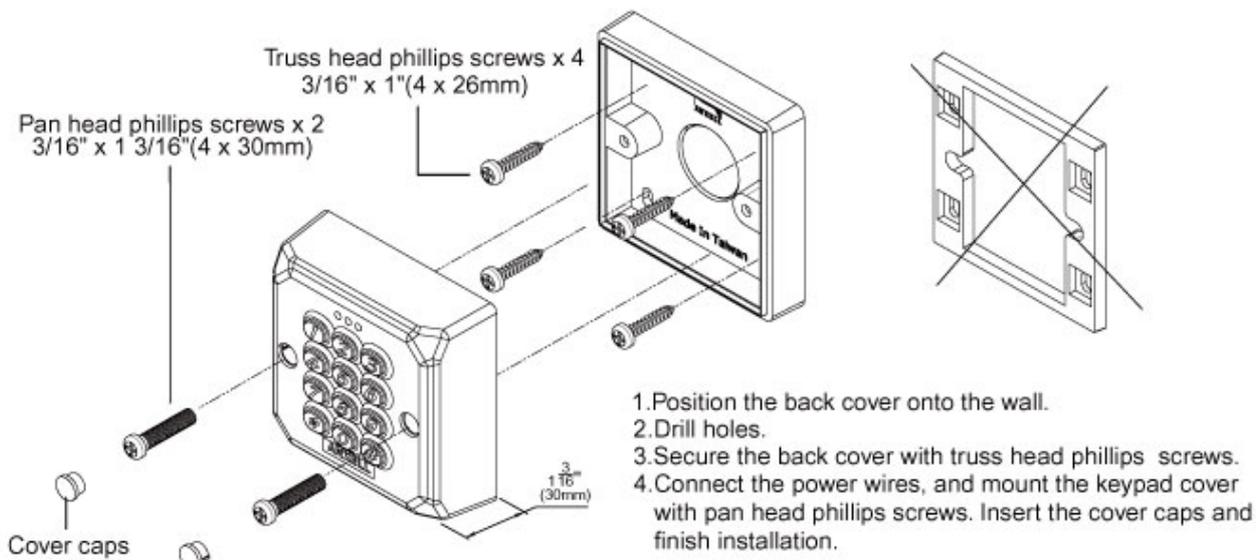
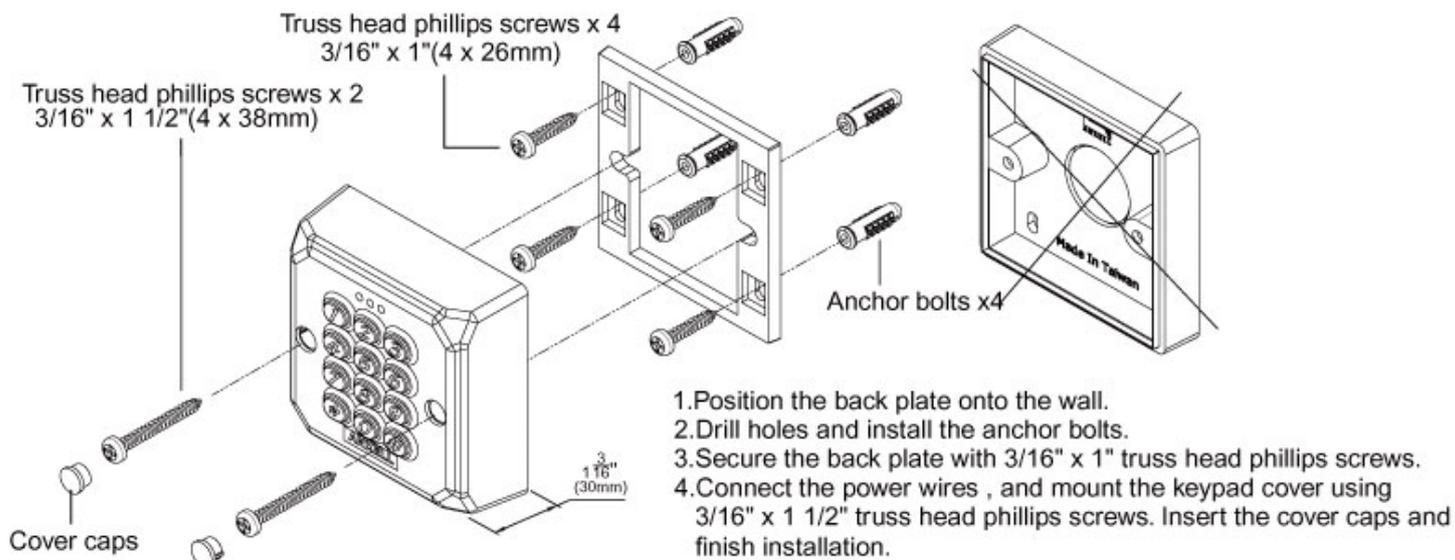
III. Status Indication

| | | |
|------|-----------|---------------------------|
| LED | Red On | Power on, Standby |
| | Green On | Relay activated |
| | Yellow On | Enter setting mode |
| Beep | 1 Beep | Valid key press |
| | 2 Beeps | Enter, exit setting mode |
| | 3 Beeps | Incorrect operation |
| | 5 Beeps | Delete all user codes |
| | 7 Beeps | Reset Master code to 1234 |

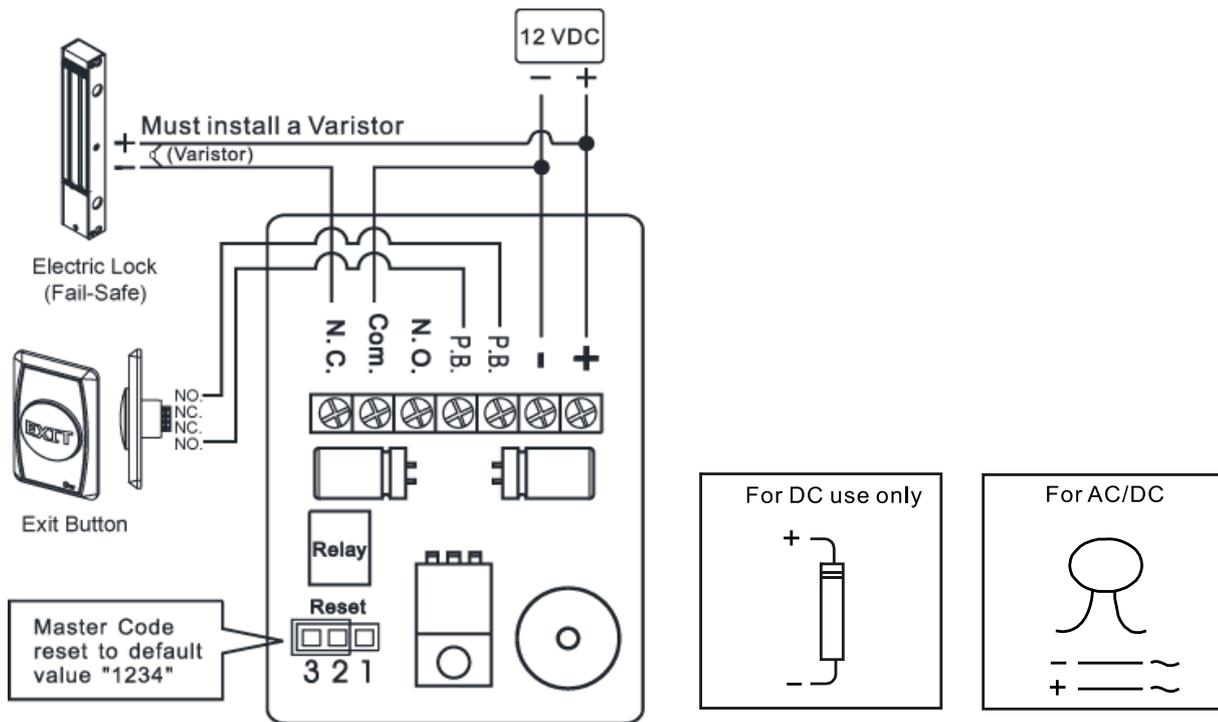
IV. Installation Diagram (DG-130L shown as example)



Position the template onto the wall and then drill cable access and mounting holes.



V. Wiring Diagram



Note:

- ◆ 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 burns the controller.

VI. Operation Instructions

◆ Enter the Setting Mode

Enter the master code twice (Default value "1234") to enter setting mode (2 beeps).

Note:

1. After 15 seconds if no data is entered, the keypad will automatically exit setting mode.
2. The keypad will be locked out for 60 seconds upon wrong 29 digit master code entries

◆ Exit the Setting Mode

Press "#" to exit setting mode. The keypad will sound 2 short beeps.

◆ Add a New User Code (In Setting Mode)

1. Enter the master code twice (2 beeps).
2. Press * 01 (slot position * 01~ * 50) .
3. Enter 4-digit user code (1 beep).
4. Repeat, or press "#" to exit setting mode.

Note: "0000" , "1234" and master code cannot be used as user codes.

◆ Set the Relay Strike Time (In Setting Mode)

1. Enter the master code twice (2 beeps).
2. Press * 60.
3. Press 05 (01~99, 1 beep).
Press 05 will set the relay strike time to 5 seconds.
4. Press “#” to exit setting mode.

In Toggle mode, the relay will switch from NC to NO upon entering the user code once. Enter the user code again and the relay will switch back.

◆ Delete a User Code (In Setting Mode)

1. Press * 06 (the slot position to be deleted).
2. Enter the master code twice (2 beeps).
3. Press * 06 (slot position * 01 ~ * 50)
4. Press 0000 (1 beep).
5. Press “#” to exit setting mode.

◆ Change the Master Code (In Setting Mode)

1. Enter the master code twice (2 beeps).
2. Press * 00.
3. Enter new 4-digit master code (1 beep).
4. Press “#” to exit setting mode.

◆ Reset the Keypad

1. Reset the Master Code

Insert the jumper at RESET location 2 -3 (see wiring diagram). After the keypad sounds 7 beeps, the master code will be reset to 1234.

2. Delete All User Codes

Insert the jumper at RESET location 2 – 3 (see wiring diagram). After the keypad sounds 7 beeps, the master code will be reset to 1234, and then after 5 beeps, the keypad will start deleting user codes with beep sounds. The beep sounds will stop until all the user codes are deleted.

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. GEM policy is one of continual development and improvement; therefore GEM reserves the right to change specifications without notice.

Appendix

| Slot Number | User | Note |
|-------------|------|------|
| 01 | | |
| 02 | | |
| 03 | | |
| 04 | | |
| 05 | | |
| 06 | | |
| 07 | | |
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| 09 | | |
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| 18 | | |
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| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |

| Slot Number | User | Note |
|-------------|------|------|
| 26 | | |
| 27 | | |
| 28 | | |
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| 30 | | |
| 31 | | |
| 32 | | |
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