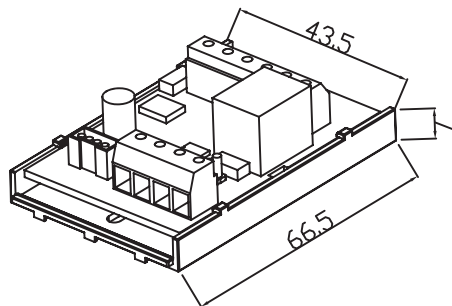
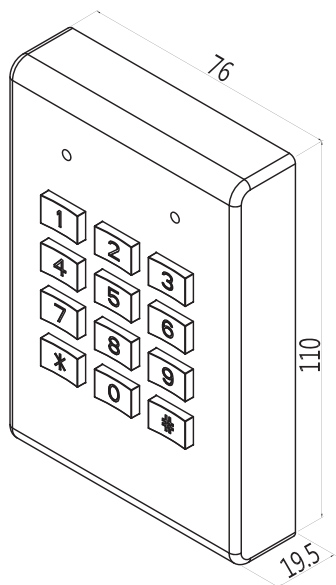


DG-35LD

Digital Keypad System Operation Manual



Unit: mm

■ Features

1. Up to 200 users, 4 or 5 digital PIN codes.
2. Epoxy sealed for weatherproof function (IP65).
3. 2 LEDs and a built-in buzzer for status and programming feedback.
4. Audible code entry verification.
5. Keypad tamper lockout: After 3 wrong codes are entered, the keypad will go into lockdown for one minute.
6. Stainless steel casing with vandal resistant screws for enhanced safety and durability.
7. Control electronics separate from keypad for added security.
8. Non-volatile memory protects programmed information in case of power loss.
9. Optical tamper sensor for vandal resistance.
10. Backlit keys for easy nighttime use.
11. It is suggested to be used with PSM-25T or PSM-26T unit.
(PSM-25T or PSM-36T is an easy-to-install power supply unit with an adjustable timer and provides various connections to Request-to-Exit buttons, electrified locks and access control systems).

■ Specifications

Operating Voltage	12VDC
Current Draw	Active: 160mA/12VDC, Standby: 60mA/12VDC
Keypad	4x3 matrix backlit keypad (0~9, *, #)
Input	Tamper switch contact(Tamper(-))
Output	1 relay (NO/NC/COM)
Relay Rating	MAX.12A/14VDC, 7A/120VAC
Memory Volume	200 User codes
Relock Time	01~99 seconds or manual mode (00) (When used with PSM-25T or PSM-26T, please set relock time by its timer)
LED Status Indication	2 LEDs (Green/Yellow)
Ambient Humidity	5%~95% (Non-condensing)
Operating Temperature	-20°C~+70°C

■ LED Indicators & Keypad Sounds

	Signal	Status
LED	Green Indicator On	Relay is activated
	Yellow Indicator On	Power On
Beep	1 short beep	Key press
	1 long beep	Valid entry
	2 beeps	Enter programming mode, Exit programming mode
	3 beeps	Invalid entry
	5 beeps	All user codes are deleted
	21 beeps	Master code length is changed
	26 beeps	Master code is reset to default value (See Wiring Diagram)

Note:

1. It is suggested to use a linear power supply unit to prevent power rating reduction from the keypad.
2. It is suggested to use #22~26 AWG insulation wire.
3. The exit button input can be wired to a normally open push button to activate the relay.
4. With CE qualified EMC specification.
5. 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.
6. The tamper output (Tamper (-)) is rated 12VDC at 100mA, and can be connected to an alarm buzzer or a caution light. When the alarm buzzer is triggered, the tamper switch changes status from NC to NO.
7. When the keypad wire is not long enough, cut off the black wire (with the white color wire head), and you can make the extension wire on your own.

■ Operation Instructions

1. Entering Programming Mode

Enter 4-digit master code twice 1234 1234 (2 beeps and rapidly flashing Yellow LED indicate that programming mode has been entered).

- ※ The system will automatically exit programming mode if no keys are pressed within 25 seconds or you may simply press # to exit.

2. Setting Relock Time

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

- a. Enter programming mode.
 - b. Press * 300 (Green LED rapidly flashes).
 - c. Press 00~99 (1 beep, and Green LED stays on).
 - d. Press # (1 beep) to be back to programming mode.
 - e. Press # again (2 beeps) to be back to standby mode (Yellow LED slowly flashes).
- ※ Entering 00 sets relock time to 0 second (manual mode), entering 05 indicates setting up 5 seconds, and so on.

(When used with PSM-25T or PSM-26T power supply unit, please set relock time by its timer)

3. Deleting All User Codes

- a. Enter programming mode.
- b. Press * 888 (Green LED stays on).
- c. Press 00 (1 beep, Green LED slowly flashes and 5 beeps).
- d. Press # (1 beep) to be back to programming mode.
- e. Press # again (2 beeps) to be back to standby mode (Yellow LED slowly flashes).

4. Adding User Codes

- A.
 - a. Enter programming mode.
 - b. Press * 001~ * 200 (Green LED rapidly flashes to indicate the slot position is available).
 - c. Press new PIN code (1 beep, and Green LED stays on).
 - d. Press # (1 beep) to be back to programming mode.
 - e. Press # again (2 beeps) again to be back to standby mode (Yellow LED slowly flashes).
- B.
 - a. Enter programming mode.
 - b. Press * 001~ * 200 (Green LED stays on to indicate the position is not available).
 - c. Press 0000 (1 beep) to delete data from the slot position (Green LED rapidly flashes).
 - e. Repeat Step 4-A to add a new PIN.

5. Changing Master Code

- a. Enter programming mode.
 - b. Press * 000 + XXXX (4-digit master code) (1 beep, and Yellow LED stays on).
 - c. Press # (2 beeps) to be back to programming mode.
 - d. Press # again (2 beeps) to be back to standby mode (Yellow LED slowly flashes).
- (Press * 000+XXXX for a 4-digit master code or press * 000+XXXXX for a 5-digit master code)

6. Changing Master Code Length

- a. Enter programming mode.
- b. Set master code length to 4 or 5 digits: Press * 555 + 4 or 5 (21 beeps and Yellow LED rapidly flashes).
(Press 4 to set the length to 4 digits or press 5 to set the length to 5 digits)
- c. Press # (1 beep) to be back to programming mode.
- d. Press # again (2 beeps) to be back to standby mode (Yellow LED slowly flashes).

Note : After the length is changed, all user codes are deleted as well. The master code will be reset to default value.
(If the default value is 4 digits, the master code is 1234; if 5 digits, 12345)

7. Resetting Master Code to Default Value

Refer to the wiring diagram. Insert a short-circuit jumper at Restore JP location when DG-35LD is supplied with power. After 26 beeps, the master code will be reset to default value, then remove the short-circuit jumper.

■ Appendix

User	User Name	Slot Number	PIN#
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

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.