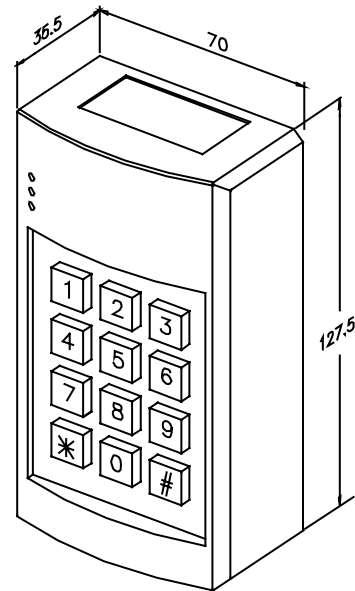


DG-30 Digital Keypad / Proximity Entry system Operation User's Manual

1. Product Characteristic:

- ◆ Allows up to 150 Proximity cards / tokens or PIN codes
- ◆ Tamper Switch Included
- ◆ Door Reed Switch Input for Anti-Trailing
- ◆ Fully Programmable via keypad and master code
- ◆ Extendable from keypad only to proximity controller
- ◆ Supports 26 or 34-bit Wiegand auxiliary reader
- ◆ Logical memory to prevent duplication
- ◆ Non-Volatile Memory
- ◆ Invalid PIN Lock-out



2. Specifications:

- ◆ Operating Voltage: 12 Vdc
- ◆ Current Draw: 60mA Max @12VDC
- ◆ Input: request-to-exit, time out reed switch contact, auxiliary reader
- ◆ Relays Electric Current: 2A MAX @30Vdc ; 0.4A @ 120Vac
- ◆ Memory Volume: 150 PIN codes or 100 Proximity cards/tokens and 50 PIN codes
- ◆ Format: 26 or 34-bit Wiegand hexadecimal.
- ◆ Relay 1 is controlled by 001~100 user slots (Cards or PIN codes)
- ◆ Relay 2 is controlled by 101~150 user slots (PIN codes)
- ◆ PIN codes: 5 digit codes only
- ◆ Case Material: ABS (UL94V0)
- ◆ Operating Temperature: -20~+70°C
- ◆ Ambient Humidity: 5~95% relative humidity non-condensing
- ◆ Visual Signals:
 - Red: Power on
 - Green: Relay activated
 - Tri-color LED:
 - ◆ Yellow: Program Mode
 - ◆ Red: The slot is registered · Lock-out
 - ◆ Green: This slot may register the card or PIN codes.
- ◆ Factory Master Code: 12345
- ◆ Invalid PIN Lock-out: The system will shut down for 60 seconds while 32 codes of incorrectly Master Codes enrolled or PIN codes attempted.
- ◆ EPROM: Non-volatile memory, System will retain all programs and codes after a total loss of power.
- ◆ Output: Dual relay, N.O./N.C./Com. Output (free voltage contact) · Tamper switch
- ◆ Relay Activation Time: (* 10 · * 20)
 - Strike Time: 1~99 seconds (adjustable)
 - Strike mode: Access Timer or Latch
- ◆ Color: Dark gray/ Beige White

3. The indicator signal chart:

Sound and LED indicator:

| | | |
|--------------|------------------|------------------------------------------------------------------------------------------------|
| LED signal | Red LED | Power on |
| | Green LED | Relay activated |
| | Tri-color-Yellow | Entering the Program mode |
| | Tri-color-Red | Slot position is registered |
| | Tri-color-Green | Slot position is ready to register |
| Sound signal | 1 Beep | Slot position is ready to register · Effective card (PIN codes) · Exit from the Program mode |
| | 2 Beeps | Entering the Program mode |
| | 3 Beeps | Slot position is registered · Data computing error · other operation mistakes · duplicate card |
| | 5 Beeps | Master Code reset to Factory (12345) |

Factory Parameter list :

| | |
|-----------------------------------|------------------|
| Format | 26 bits |
| Card register | None |
| Master Codes | 12345 (5 digits) |
| Strike Time | 1 seconds |
| Pressed key delay time (Time Out) | 5 seconds |
| Program mode delay time | 60 seconds |
| Invalid PIN Lock-out time | 60 seconds |

4. Operation Instruction:

◆ Enter Program Mode:

1. Compose twice the master code (Factory master is 「12345」)
→ 2 beeps and the Yellow LED will light up
→ you are now in the "programming mode".
2. **Note:** After 60 seconds if you have not entered any codes or data, the system will automatically exit from the programming mode. After 6 wrong attempts at the master code the lockout facility will operate.

◆ Exiting from the program mode:

1. Press 「#」 to exit from the programming mode.
2. **Note:** After 60 seconds if you have not entered any codes or data, the system will automatically exit from the programming mode. After 6 wrong attempts at the master code the lockout facility will operate.

◆ Selecting The User Format

Enter the Programming mode, Press 「* 30」

- ◆ Followed By 「01」 : This will set the system to be used as :Wiegand 26-bit : Slots 001~100 for cards/tokens and slots 01~150 for PIN codes

OR

- ◆ Followed By 「02」 : This will set the system to be used as : Wiegand 34-bit, Slots 001~100 for cards/tokens and slots 01~150 for PIN codes

OR

- ◆ Followed By 「03」 : This will set the system to be used as : Slots 001~150 for PIN codes only

Note: When system format has the change, there's a possibility the card stored would be invalid. Please reset the system and input all cards /tokens.

- ◆ **Add card and deletion**

Enter the Programming mode, Enter the slot position code 「001~100」

- A. **Green light comes on:** This slot position is ready to register the card
 1. Present card in front of the reader→Yellow LED blinks (beep) → enrolled completed → (repeat)
 2. Present card in front of the reader→ (3 audible beeps) another card has already been input (duplicate card).
- B. **Red light comes on:** This slot already has a code registered
 1. Press 「* *」 (deletion) → Green light → Enter the slot position code again → Present the card in front of the reader → (same as Step "A")
 2. Enter another slot card position

- ◆ **Add PIN codes and deletion**

Enter the Programming mode, Enter the slot position code 「101~150」

- A. **Green light comes on:** This slot position code may register the PIN codes
Input 5 digit PIN codes →Yellow LED blinks (beep) → enrolled → (repeat)
- B. **Red light comes on:** This slot position code is registered
 1. Press 「* *」 (deletion) → Green light → Press the slot position code again → Input 5 digit PIN codes → (same as Step "A")
 2. Enter another slot card position

Note 1: The codes "12345" or master code are not be used for PIN code.

Note 2: PIN codes operate open door : 「??????????* * * * #」
「???....」 random codes, 「* * * *」 5 digit PIN codes, 「#」 Enter

- ◆ **To Program Relocking Timer**

Enter the Programming mode,

- A. Relay 1 : Press 「* 10」 Followed by the number of seconds the relay should open→ 「05」 =5 seconds (01 ~99 = seconds) → (beep) →enrolled → Press 「#」 to exit from the programming mode, or program other operating.
- B. Enter 「00」 Sets the relay to latching mode. (Correct code entered opens the relay, and the relay stays open until the correct code is entered again).
- C. Relay 2 : Press 「* 20」 Followed by the number of seconds the relay should open) → 「05」 =5 seconds (01 ~99 = seconds). → (beep) →enrolled → Press 「#」 to exit from the programming mode, or program other operating.
- D. Enter 「00」 Sets the relay to 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 5 digit master code→ (beep) →enrolled→Enter 「#」 to exit from the programming mode, or program other operating.

◆ **Reset to Factory**

- Master Code reset to Factory 「12345」

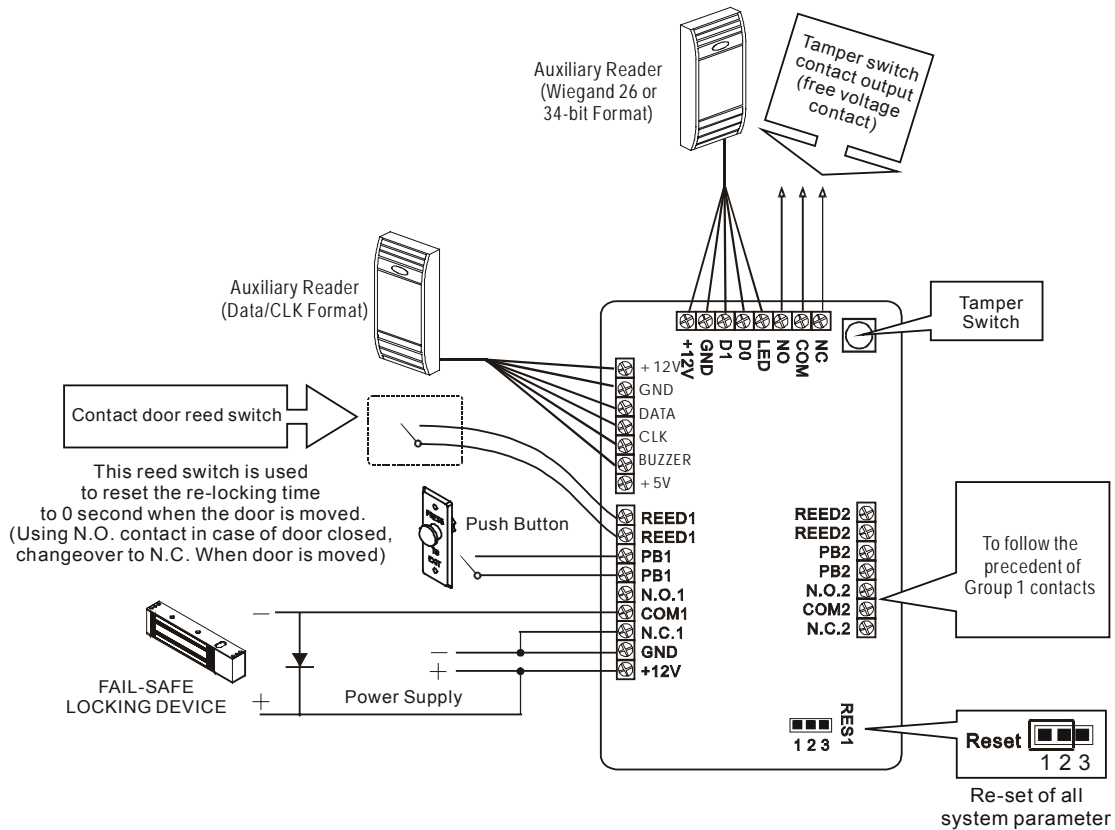
Insert the jumper RES1 → [1-2] position → 5 audible beeps → Reset successful → Return
Insert the jumper to 2-3 position

- Remove all stored information

Insert the jumper RES1 → [1-2] position → 5 audible beeps → Master Code reset to
Factory 「12345」 → after 5 seconds → 5 audible beeps → Remove all stored
information → Return Insert 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.

5. Wiring diagram:



Note:

- ◆ DG-30 controller and auxiliary reader distance must not exceed 20 meters; the data will not transmit beyond this. The suggested wire gauge is #22~26 AWG.
- ◆ Using a Linear supply power recommended, to prevent power reduction at the card reader.
- ◆ The varistor or diode must be connected across the lock terminal (electromagnet...) operated by the device. The varistor controls the overload produced by the strike coil (EMP).
- ◆ Egresses switch should be N.O. type.

