DG Series
Access Control Proximity Readers

DG-800+

DG-170+

Features:

- Applicable card mode ： EM Card / Key Fob
- 1 Administrator and 200 Users
- 200 Proximity Cards / Key fobs
- Access Modes ： Use Bluetooth smartphone, Card / Key fob or enter passcode to access
- Built-in Tamper alarm and Buzzer (85dB)
- User Management ： Add / Delete / View user data, Grant user access for specific dates or time periods, Change user passcode
- Audit Trail logs for last 1000 events
- Alarm output to notify that Tamper alarm has been triggered
- Overhead LEDs and Backlit keys for easy use in the dark
- Wrong code lockout ： If an incorrect passcode is entered 3 times in a row, the keypad will lock down for 60 seconds

Specifications:

- Operating Voltage ： 12VDC / 24 VDC
- Bluetooth Module ： BLE 4.2 Bluetooth Low Energy
- Current Draw ：
  Standby current
  52mA@12VDC ; 30mA@24VDC
  Working current (Relay active) ：
  62mA@12VDC ; 35mA@24VDC
- Read Range ： 3.5cm
- Frequency ： EM 125KHz
- Bluetooth Operating Distance ：
  Up to 50 meters (164 ft) without blocking by metal or concrete wall/door frames
- Smartphone Compatibility ： Android 5.0 and up, iOS 9.0 and up
- Working Temperature ：
  -20 ℃ ~ +50 ℃ (-4 ℉ ~122 ℉)
- Dimension ：
  DG-800+ ： 123 (L) x 79 (W) x 23 (D) mm
  DG-170+ ： 152 (L) x 45 (W) x 23 (D) mm
- Finish ： Zinc Alloy

DG Series Pre-Installation

DG-800+ & DG-170+ Parts List：

Flat head phillips screws, Cone point x4

Tri-point screw 3x8mm x1

Tri-point screwdriver (special tool) x1

Anchor bolts x4

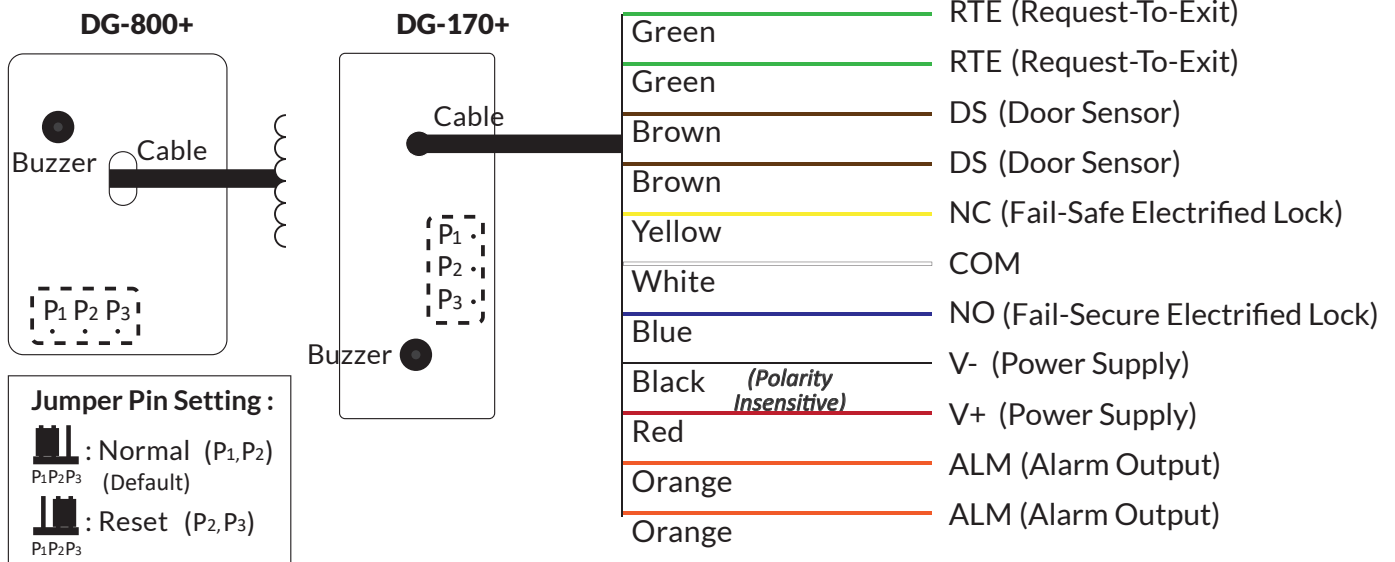Crimp connectors x12

Proximity EM cards x2

Proximity key fob x1

LED & Audible Indicators

LED	Status
Blue	Power on, Standby mode
Green	Unlocked, Door always unlocked
Red	Invalid access, Door always locked

Audible Beeps	Status
1 Short beep	Key press
1 Long beep	Valid access, Reset is completed
2 Short beeps	Login completed
3 Short beeps	Invalid access, Forget to press # after entering passcode within 30 seconds
Constant beeping	Bluetooth device vandalized, Door sensor is on

DG Series Wiring Diagram

(DG-800+ & DG-170+ have same wiring and pin setting)

DG-800+

Buzzer

Cable

P_1 P_2 P_3

Jumper Pin Setting :

$P_1 P_2 P_3$: Normal (P_1,P_2) (Default)

$P_1 P_2 P_3$: Reset (P_2,P_3)

DG-170+

Cable

P_1
P_2
P_3

Buzzer

| Wire	Function
Green	RTE (Request-To-Exit)
Green	RTE (Request-To-Exit)
Brown	DS (Door Sensor)
Brown	DS (Door Sensor)
Yellow	NC (Fail-Safe Electrified Lock)
White	COM
Blue	NO (Fail-Secure Electrified Lock)
Black *(Polarity Insensitive)*	V- (Power Supply)
Red	V+ (Power Supply)
Orange	ALM (Alarm Output)
Orange	ALM (Alarm Output)

Reset Procedures

1. Power off Access Control Reader.
2. Move the Pin Jumper to P2 and P3, then power on.
3. Hear a long beep to complete resetting procedures.
4. Move the Pin Jumper back to P1 and P2 to Normal setting.
5. Login as Admin and check all users, audit trail events are all cleared and everything is reset to factory default setting, except device name.

Install Crimp Connectors
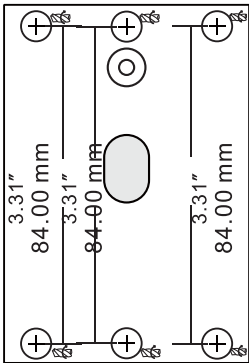
Crimp connectors included:
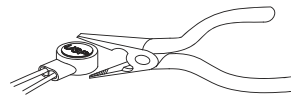
Crimp connectors

Use a pair of crimping pliers designed to crimp insulated connectors. Place the crimp connector into the compression slot. Be sure the crimping jaws are positioned over the stripped portion of the wire. Squeeze the handles together with enough force to crush the end of the butt splice.
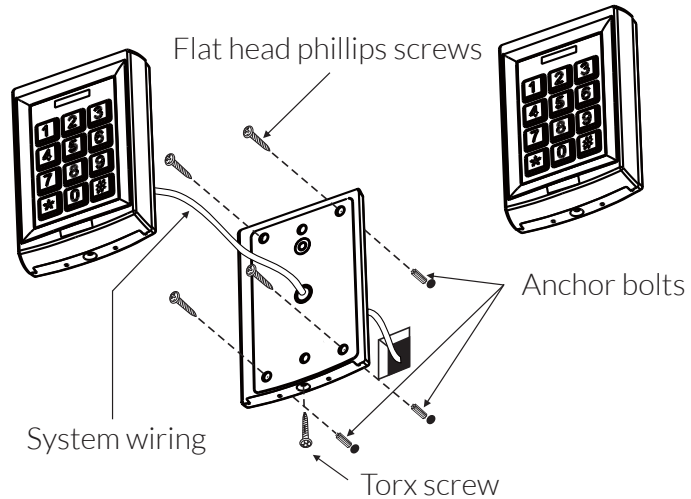
DG Series Keypads Installation

DG-800⁺ Installation

Template

=(0.3″)8mm =(0.3″)8mm =(0.3″)8mm

3.31″ 84.00 mm
3.31″ 84.00 mm
3.31″ 84.00 mm

=(0.3″)8mm =(0.3″)8mm =(0.3″)8mm

Flat head phillips screws

Anchor bolts

System wiring

Torx screw

① Open DG-800+ Keypad by loosening and removing the back case torx screw at the bottom with the torx wrench.

② Use the provided drilling template to accurately locate and drill the required holes.

③ Use the screws provided to mount the back case on the wall. Be sure to draw the wiring through the large centre hole in back case, and keep level.

④ Connect accurately the system wiring following the label enclosed on the rear.

⑤ Put the unit back and screw it on by using the torx wrench.

DG-170⁺ Installation

Template

Product Center Line

(3.5") 90.00mm
(3.5") 83.50mm
(0.3") 8MM

(1.2") 30.00 mm
Product Center Line

Anchor bolts

Flat head phillips screws

System wiring

Anchor bolts

Torx screw

Flat head phillips screws
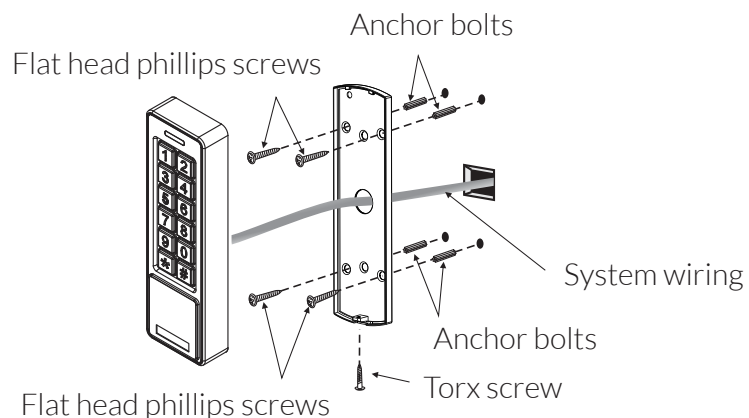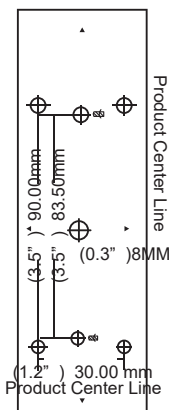
① Open DG-170+ Keypad by loosening and removing the back case torx screw at the bottom with the torx wrench.

② Use the provided drilling template to accurately locate and drill the required holes.

③ Use the screws provided to mount the back case on the wall. Be sure to draw the wiring through the large centre hole in backcase, and keep level.

④ Connect accurately the system wiring following the label enclosed on the rear.

⑤ Put the unit back and screw it on by using the torx wrench.

Software App Operations

1. Download Easiprox App (for model Easiprox+ Series and DG Series)

Download Easiprox App to set up. Scan QR Code on the left or download the App from Apple Store or Google Play depending on what kind of smartphone you use. Smartphone compatibility： Android 5.0 and up, iOS 9.0 and up

Easiprox

2. App Main Page Introduction

① Login

Administrator： Enter Admin ID and Passcode to login.
Admin ID： **ADMIN**
Default Admin Passcode： **12345** (Passcode： 4~8 digits)

User ： Enter User ID and User Passcode to login.
User ID and User Passcode are given by the Administrator.

[Note]

1.) Administrator ID "ADMIN" can not be changed. Please change Admin's default passcode "12345" right after you login as the Admin.
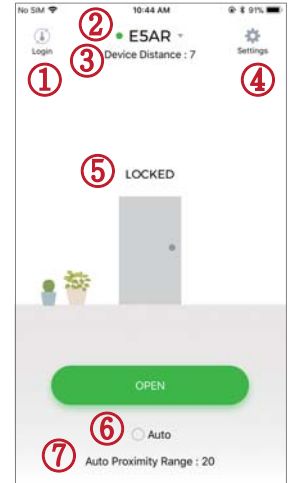Go to setting page, press Admin Passcode to Edit Admin Passcode.

2.) **Login Success / Login Failure indications will be shown as following**：
Login Success：
You Have Successfully Logged In. You May Now Unlock A Door.
Login Failure：
Login Failed. Please Verify Your Login Information Or Contact Your Administrator.

② Device name

Choose which device you want to unlock by pulling down the Device name listing.

③ Device distance

The distance between you and the Bluetooth Keypad/Reader.

④ Settings

Tap "Settings" to view or change setting functions.

⑤ LOCKED / UNLOCKED

LOCKED： Door lock status is Locked. (Default).

UNLOCKED： Press [OPEN] button or the door icon ▪ to unlock the door.

⑥ Auto

Press "Auto" to enable Auto unlock function to access.

Make sure to disable "Auto" before pressing ⚙ Settings to enter Settings page.

⑦ Auto Proximity Range

Adjust Auto Proximity Range in Settings page. The range is between 0 to maximum 20 and it may have different results under different circumstances.

Software App Operations

3. Administrator " Settings" Page Introduction

Tap "Settings" to view or change setting functions in Users "Setttings" Page.

① **Users**：(See Figure 1 below)

a. **Add / Delete / Edit** user information.

b. If there are many users, you can search User ID (Enter an User ID to search user). (See Figure 2 below)

c. **ID** (Up to 16 characters)

d. **Passcode** (4~8 digits)

e. **Card / Fob number**：Enter or Edit 10 numbers from a card or key fob.

f. **Phone Access**：Enable / Disable phone access for a user. (See Figure 3 below)

h. **Keypad Access**：Enable / Disable keypad access for a user. (See Figure 3 below)

g. **Card / Fob Access**：Enable / Disable Card and Key Fob access for a user. (See Figure 3 below)
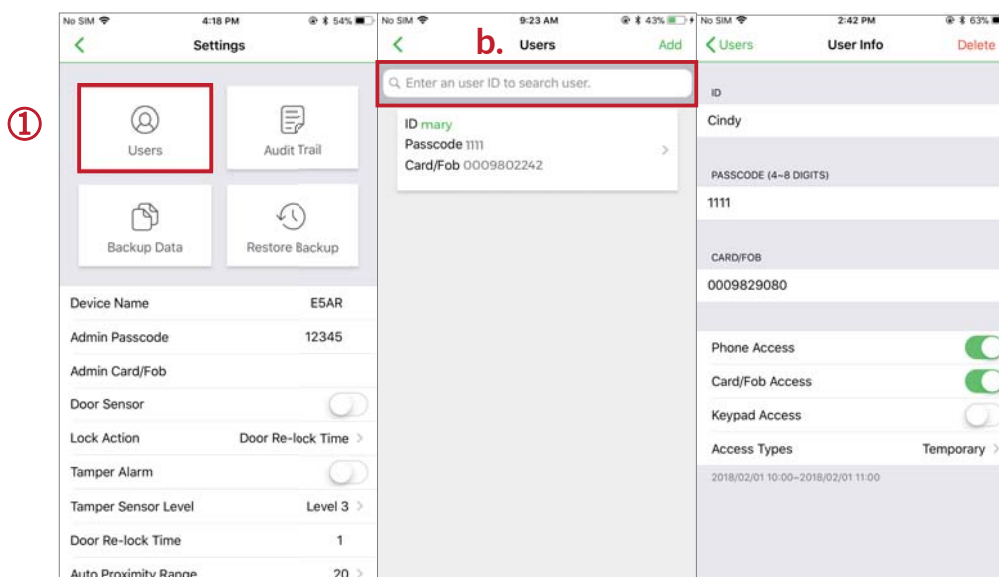

Figure 1   Figure 2   Figure 3

i. **Access Type**：(4 options) (See Figure 4 next page)

(A) Permanent：Permanent access is given by default.

(B) Temporary：Set specific access time period for guests and visitors.

(C) Number of Times：To set number of access granted to user. (Please enter a number between 0 to 255)

(D) Scheduled：To assign repeatedly access on specific days and hours for a certain period of time. This setting is useful for house cleaners or constructors who need temporary access on regular basis. (See Figure 4 and 5 next page)

② **Audit Trail**：(See Figure 6 and 7 next page)

a. Audit Trail is tracking last 1000 event logs including Tamper Alarm.

b. Enter an user ID to search events for an user.

c. Tap ⬜ to export all events to excel file.

d. Tap ↻ to refresh all events.

③ **Backup Data**：(See Figure 8 next page)

Backup Data is to backup Users, Admin Passcode, Admin Card/Fob, Door Sensor, Lock Action, Tamper Alarm and Door Re-lock Time to Administrator's phone and can be restored except Device Name, Tamper Sensor Level, Auto Proximity Range, About Us and Audit Trail logs.

Step 1：Press "Backup Data", the App will show：| Backup all data now? |

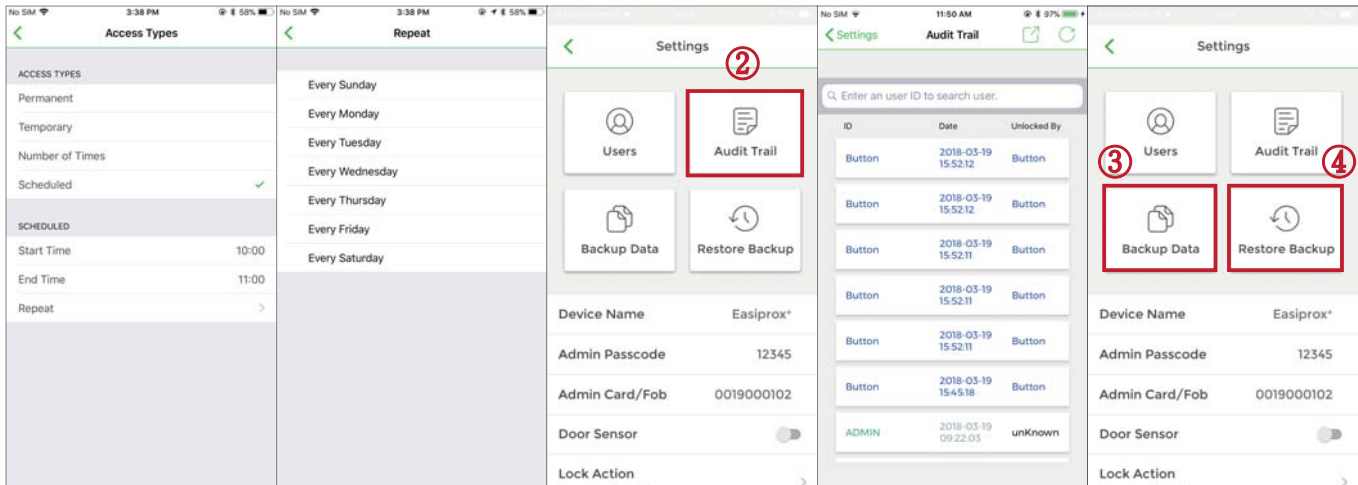Step 2：Press Confirm, the App will show：| Backup Status Backup Complete! |

Software App Operations

| Figure 4 | Figure 5 | Figure 6 | Figure 7 | Figure 8 |

④ **Restore Backup** (See Figure 8)

Restore the last backup data by Admin's phone to a new Access Control Keypad / Reader.

Step 1：Press "Restore Backup", the App will show：| Restore all data now? |

Step 2：Press Confirm, the App will show：| Restore Status Restore Complete! |

Administrator " Settings" Page Introduction Continued： (See the Figure)

- **Device Name**：Edit Device Name (Up to 16 characters)
- **Admin Passcode**：Edit Admin Passcode（4~8 digits）
- **Admin Card/Fob**：Edit Admin Card/Fob number (10 numbers on your card or key fob)
- **Door Sensor** ：
  Enable Door Sensor when you connect to a closed-circuit magnetic sensor or a monitored door lock that has door sensor (or lock sensor) outputs to monitor the open or closed state of a door.
- **Lock Action**：（3 options）
  Choose Door Re-lock Time, Door Always Unlocked, and Door Always Locked.
- **Tamper Alarm**：
  If the device is vandalized, the tamper alarm will beep immediately and won't go off until it's switched off by Administrator.
- **Tamper Sensor Level**：
  Level 1 (High Sensitivity)
  Level 2 (Mid Sensitivity)
  Level 3 (Low Sensitivity)
- **Door Re-lock Time**：
  6 seconds by default. Edit the Door Re-lock Time interval between 1 to 1800 seconds.
- **Auto Proximity Range**：
  Adjust Auto Proximity Range here. The range is between 0 to maximum 20 and it may have different results under different circumstances.
- **Device Time**：
  Make sure the Device Time is precisely synced with your current time zone to have correct and precise access data and information.
- **About us**：View Device Models, App version, Website and E-Mail information.
- **Firmware version**：See Firmware version of your Bluetooth Access Control Keypads/Readers.

Software App Operations
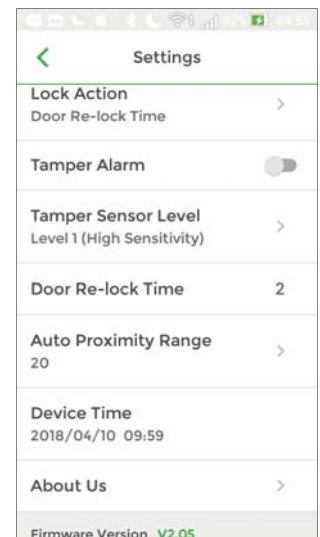
4. User's " Settings" Page Introduction

Tap "Settings" to view or change setting functions in User's "Settings" Page. (See Figure 9 below)

- Device Name：User can only view the Device Name. (See Figure 10 below)
- Auto Proximity Range：User can adjust Auto proximity range between 0 to maximum 20 to access. May have different results under different circumstances. (See Figure 11 below)
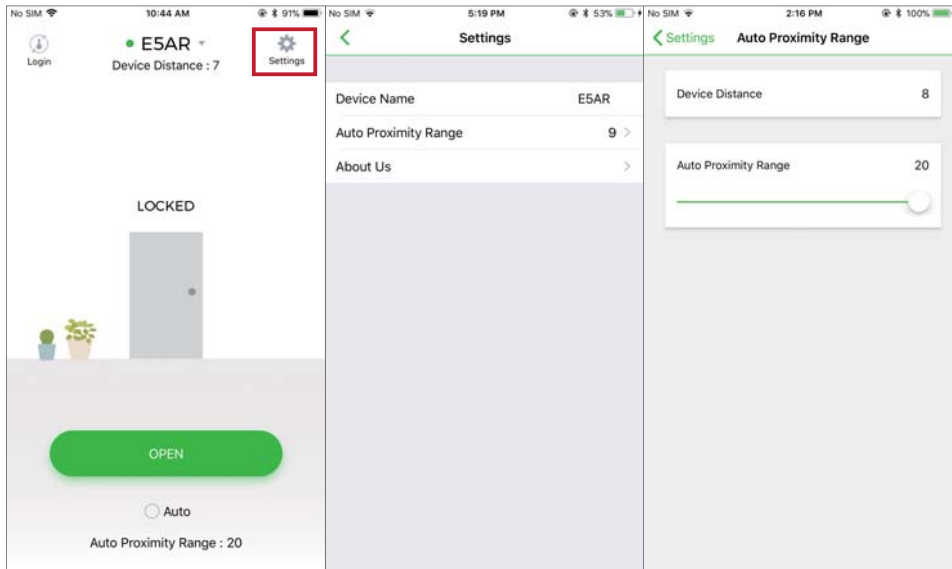- About Us：View Device models, App version, Website information.

Figure 9	User's Settings Page	Figure 11
	Figure 10	