DG-320BLE
Access Control Proximity Readers

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
   43mA@12VDC ; 23mA@24VDC
  Working current (Relay active)：
  63mA@12VDC ; 34mA@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：114 (L) x 70 (W) x 41 (D) mm
- Material：ABS

DG Series Pre-Installation

DG-320BLE Parts List :

Flat head phillips screws, Cone point x4

Security screw 4x13mm x2

Spanner screwdriver (special tool) x1

Cover cap x4

Anchor bolts x4

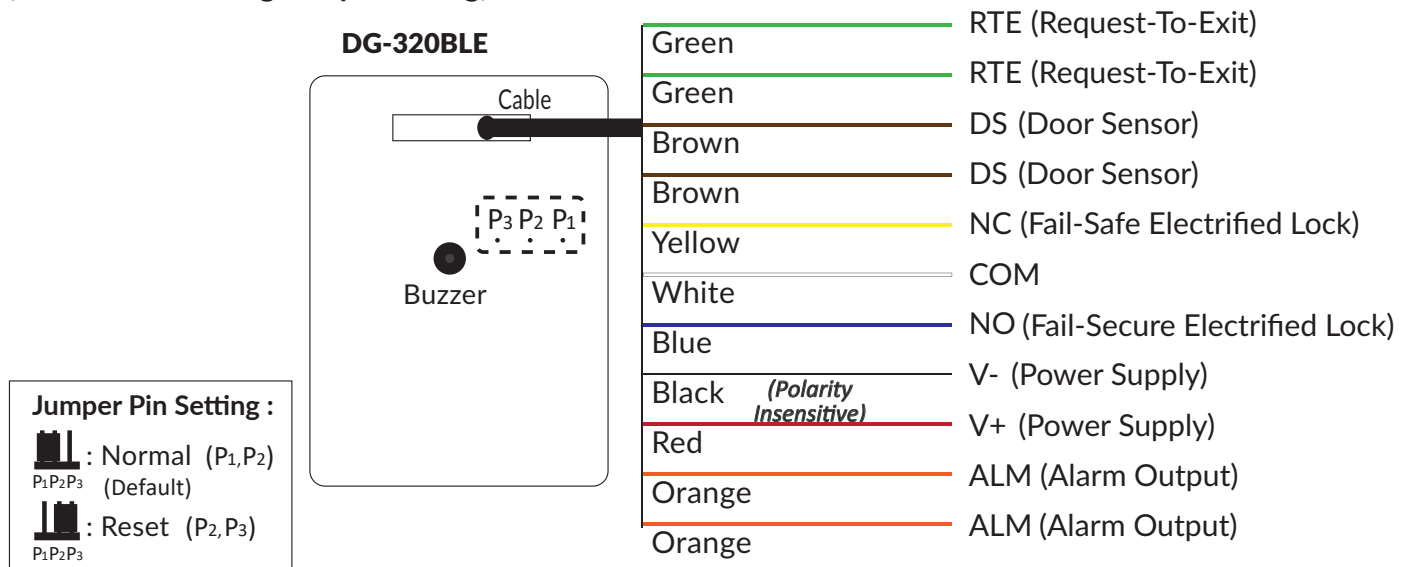Crimp connectors x12

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
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-320BLE wiring and pin setting)

DG-320BLE

Cable

P_3 P_2 P_1

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)

Jumper Pin Setting :

$P_1P_2P_3$: Normal (P_1,P_2) (Default)
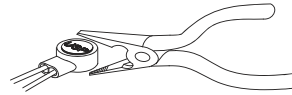
$P_1P_2P_3$: Reset (P_2,P_3)

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.

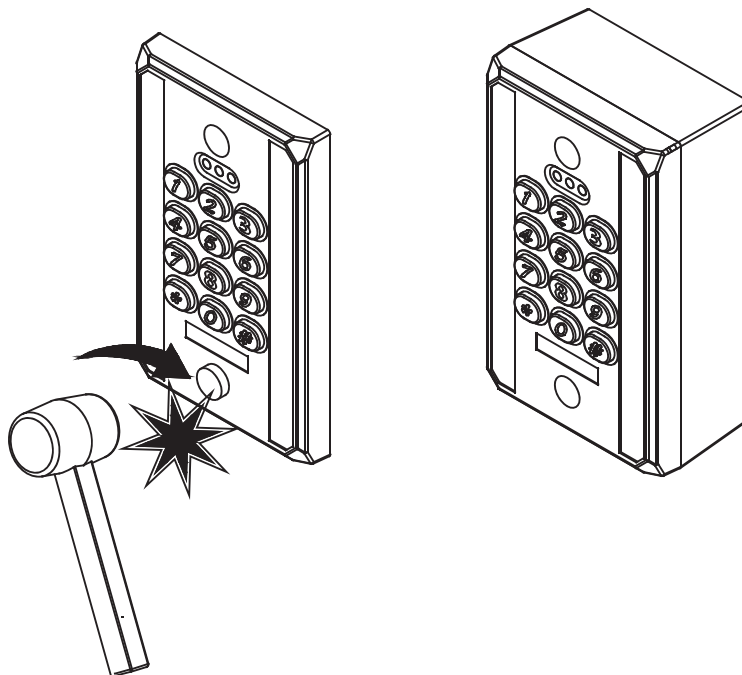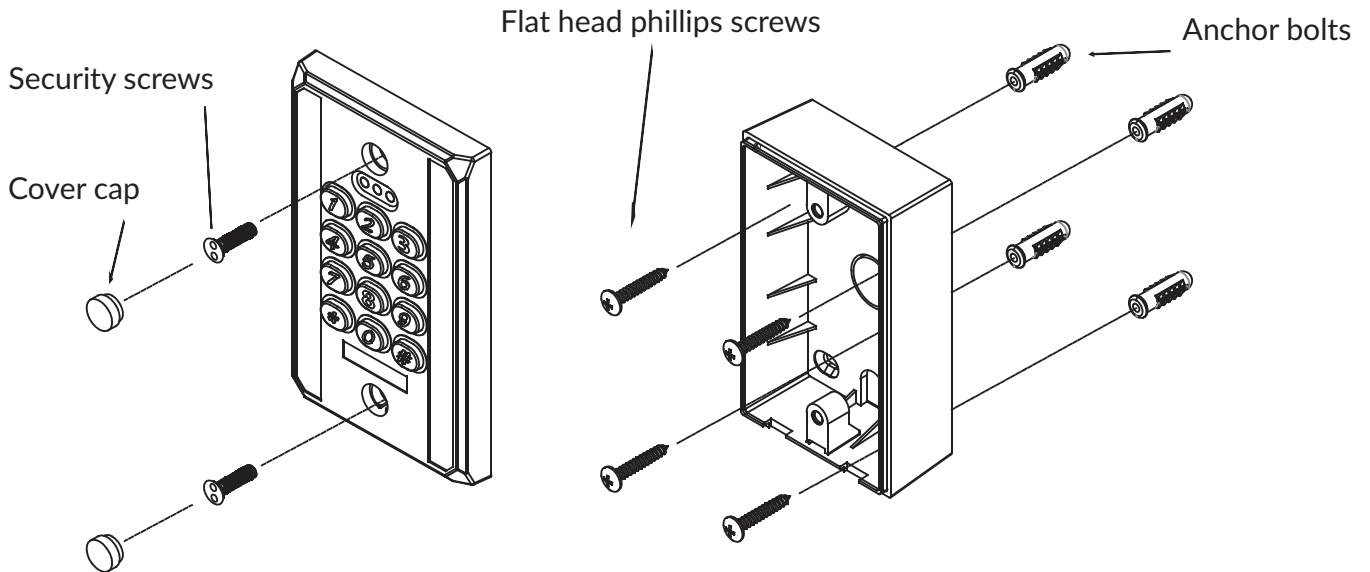# Install Crimp Connectors

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-320BLE Installation

Flat head phillips screws

Anchor bolts

Security screws

Cover cap

① Install the surface mount box by using 4 flat head phillips srews.
② Connect the wires and mount the keypad cover to the box with 2 security screws.
③ Use the rubber hammer to hit the cover caps into the holes.

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.
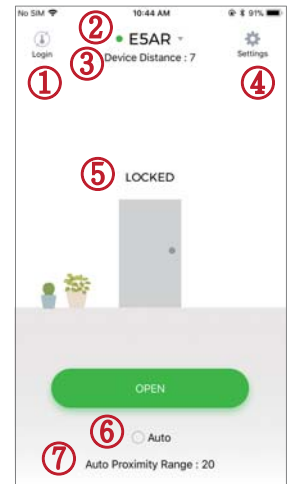Go to setting page, press Admin Passcode to Edit Admin Passcode.

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.
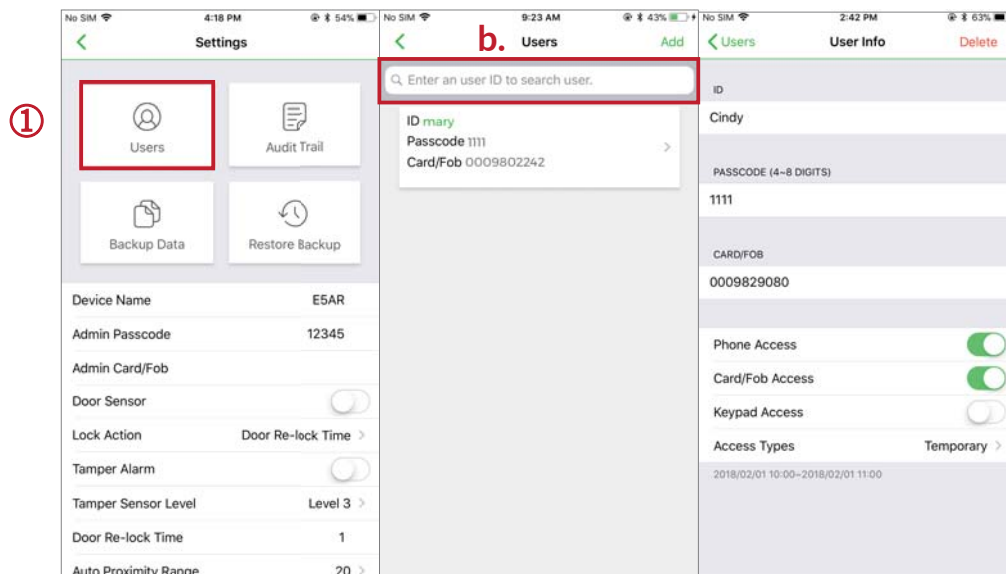   (See Figure 3 below)

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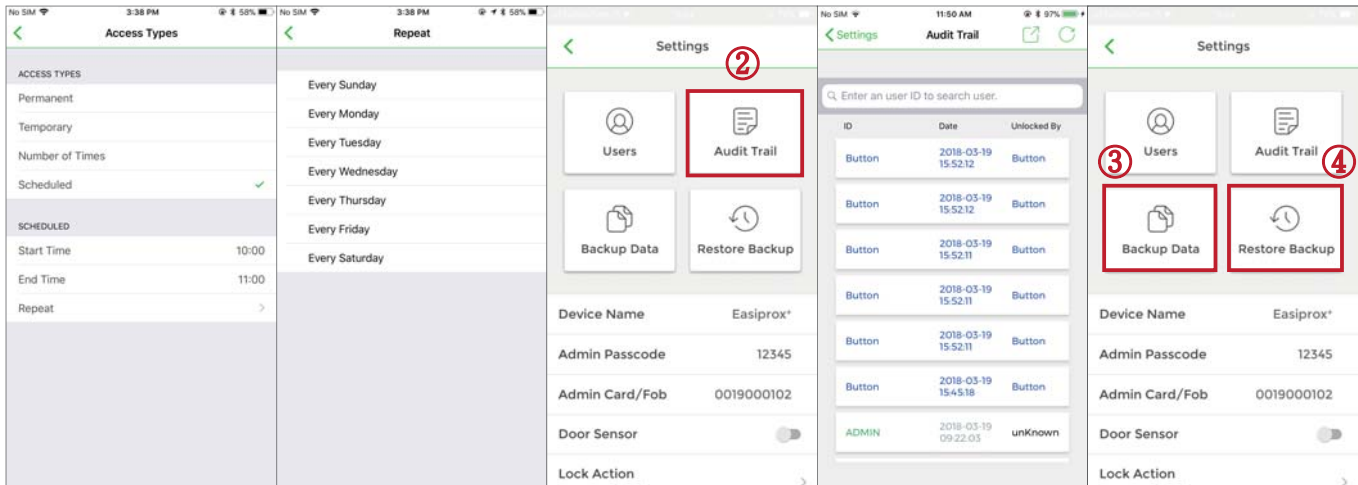 Step 2：Press Confirm, the App will show： Backup Status Backup Complete!

Software App Operations

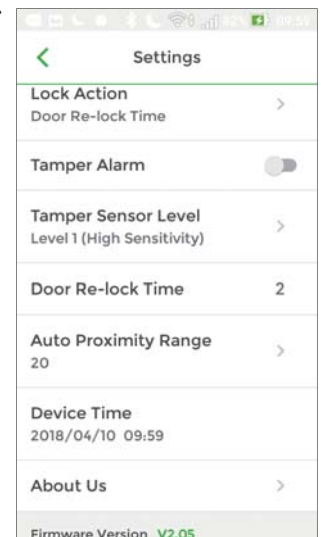| Figure 4 | Figure 5 | Figure 6 | Figure 7 | Figure 8 |

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)
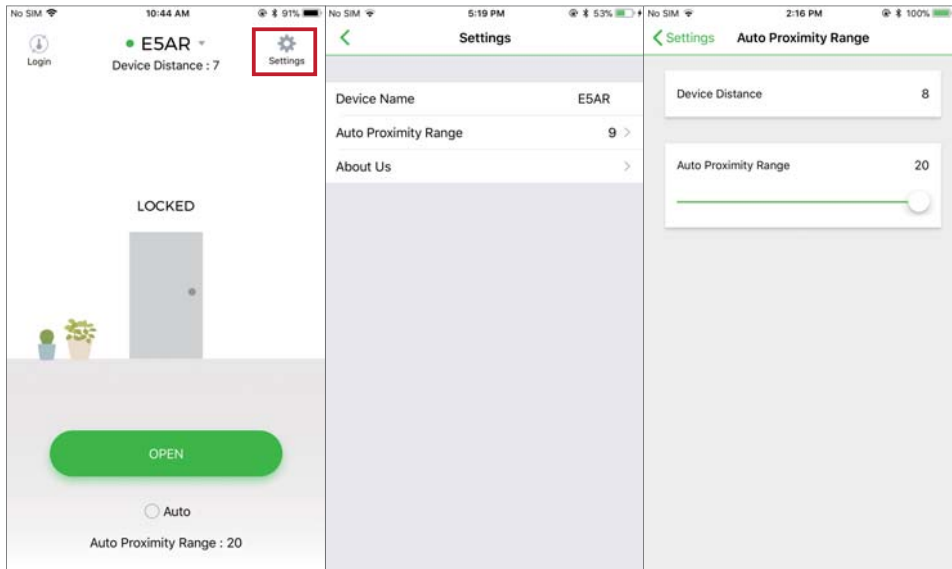- About Us：View Device models, App version, Website information.

Figure 9   User's Settings Page   Figure 11
                        Figure 10