

# Access Control Proximity Reader with Bluetooth

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GDG360BT



User Manual

Please read these instructions carefully before operating the unit  
and keep for further reference.

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## 1. Features & Specification

- 1 administrator and 200 users
- Access modes : Bluetooth via app on Smartphone and RFID Card (EM 125KHz)
- Door sensor input for anti-tailgate operation
- User management : Add, delete and view user data, grant user access for specific dates or time periods, change user passcode and audit trail logs for last 1000 events
- Locking options: Door re-lock time, door always unlocked, door always locked
- LED & audible indicators

### Specification

Operating Voltage	DC12~24V
Current Draw	Standby : 90mA / 46mA, Active : 101mA / 51mA
Frequency and Storage Format	125KHz, internal decimal number (ABA format, decimal conversion)
Read Range	3 cm
Inputs	1 RTE (Request to exit), 1 Door sensor (DS)
Outputs	1 SSR (Dry contacts N.O./N.C./COM.), 1 Tamper Alarm (ALM)
Indicator Light	3 LED's (Red, Green, Blue)
Memory Volume	1 Administrator & 200 Users
Card Format	EM-400x 64-bit Standard R/O or Compatible
SSR Contact Rating	2A / DC12V
SSR Output Time	1~1800 seconds (Adjustable on App)
Humidity	5%~95% (Non-Condensing)
Temperature	-20°C~70°C
Bluetooth Module	BLE 4.2
Auto Proximity Range	0~20m (Adjustable)
Dimensions	86 × 86 × 20 mm

### LED and Audible Indicators

Solid Blue LED	Power on, Standby	1 Short beep	Key press
Red LED	Invalid access, Door always locked	1 Long beep	Buzzer sound Valid access Reset completed
Green LED	Unlocked, Door always unlocked	2 Short beeps	Buzzer sound Login completed
Flashing Blue LED	Bluetooth connecting	3 Short rapid beeps	Continuous buzzer sound Device vandalised Alarm activated

## 2. Operation Notes

The GDG360BT includes one pair of NO/NC/COM output contacts, which can directly connect to a locking device or connect in parallel or series with access control systems.

### Reed Switch

Door closed status: NO contact

Door open status: NC contact

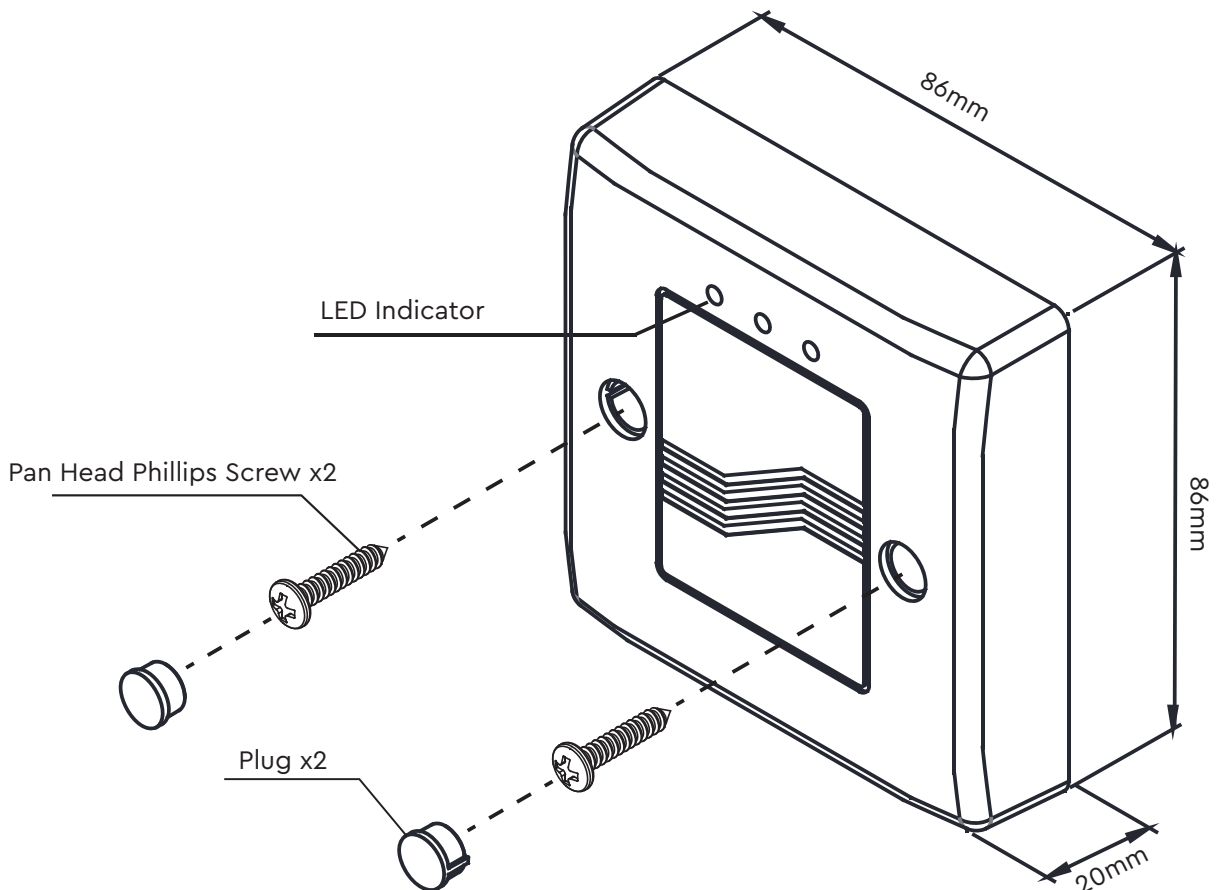


### Using Reset Jumper

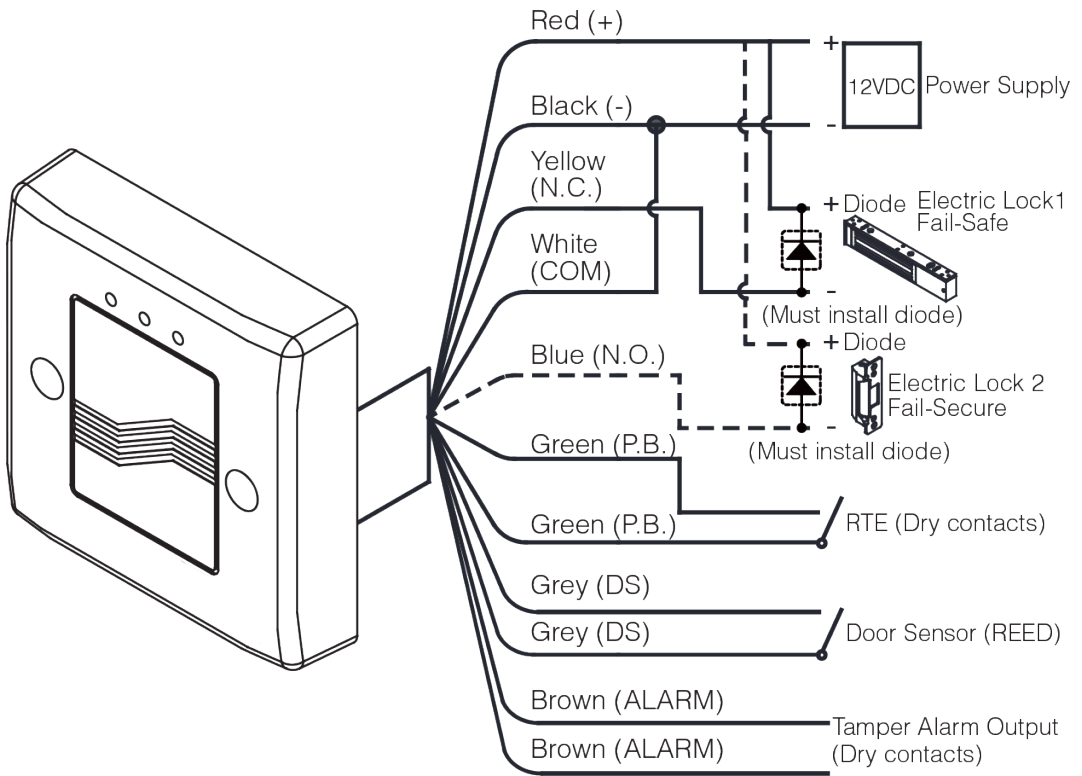
#### Note:

1. Make sure that the power input and SSR rating output (2A/12VDC) are correct.
2. Make sure that the "+" and "-" wires are connected correctly.
3. 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.

## 3. Diagram / Dimensions

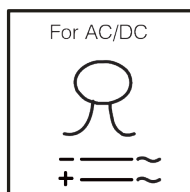
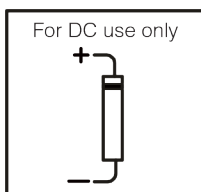


### 4. Wiring Diagram

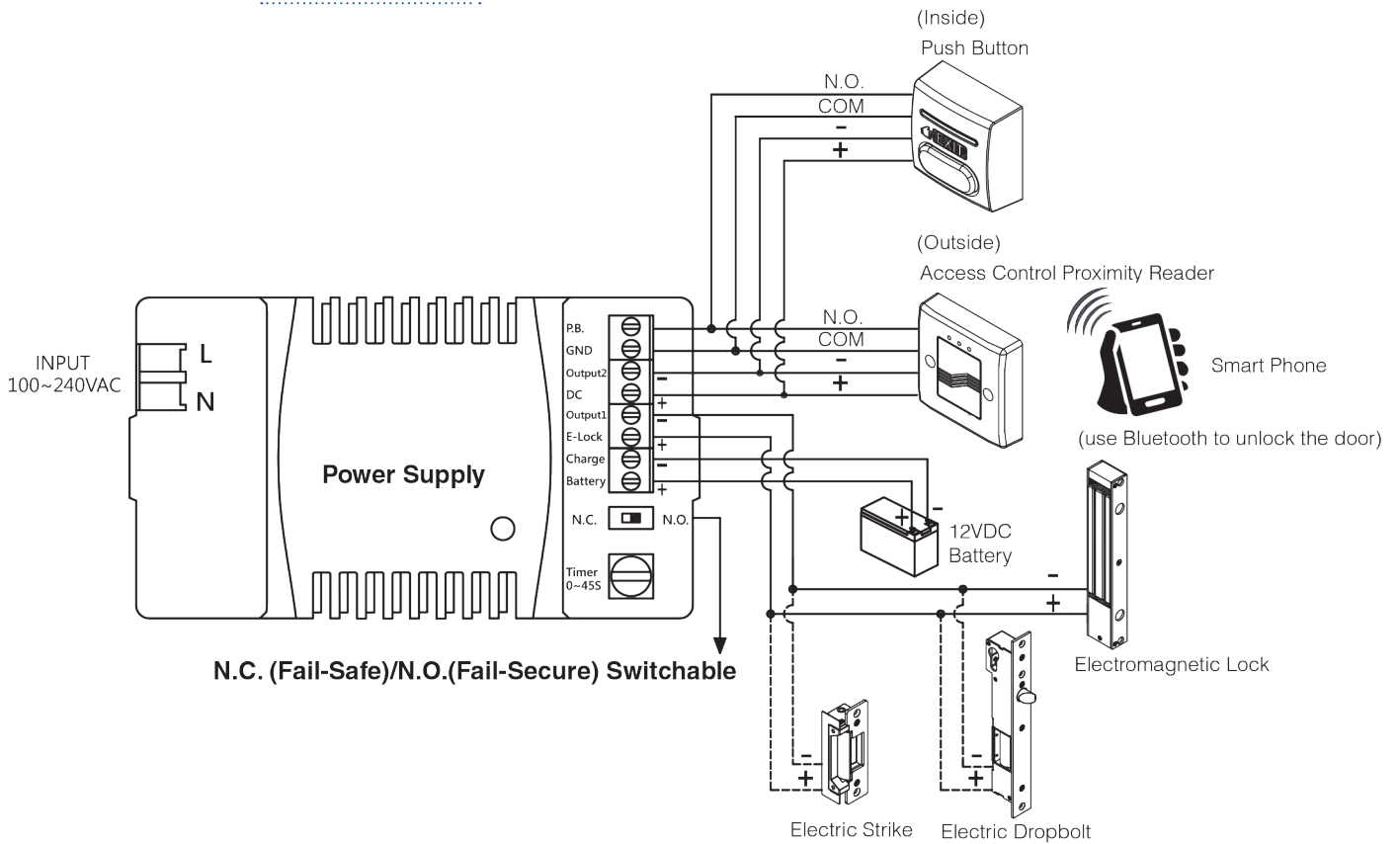


Item	Wire Colour	Terminal	Description
1	Red	+	Positive
2	Black	-	Negative
3	Blue	N.O.	SSR contact
4	White	COM	
5	Yellow	N.C.	
6	Green	PB	RTE contact
7	Green	PB	
8	Grey	DS	Door sensor (REED)
9	Grey	DS	
10	Brown	ALM	Tamper alarm output contact
11	Brown	ALM	

The door strike or SSR must have a diode or varistor across the door strike terminals to suppress the back EMF of the strike – failure to do so will damage the SSR contacts and electronic components, or even burn the controller.



## 5. Application



**Note:**

When connecting the GDG360BT to the access control system as shown above, set the power supply timer to 0 second and adjust time settings on the App.

## 6. The App Guide

### Download the App

From either the Apple App store or Google Play, download the Easiprox app on your smartphone (Android 5.0 and up, iOS 9.0 and up).



Easiprox



### App 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.

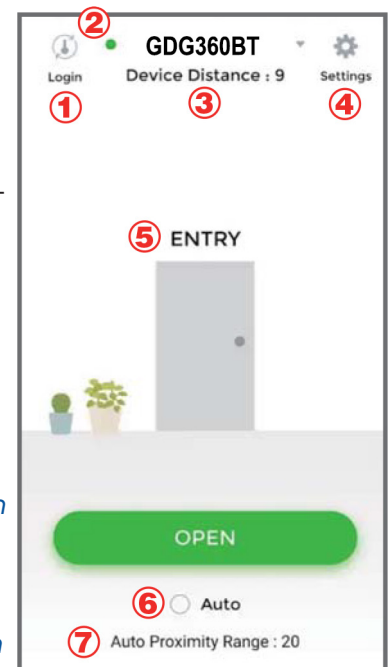
User ID and User Passcode are given by the Administrator.

#### Note:

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

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

Tap and choose which device you want to unlock by pulling down the Device name listing.

#### 3. Device Distance

The distance between you and the Bluetooth device. The distance range is between 0 to 20 upon Bluetooth signal strength and different circumstances.

#### 4. Settings

Tap "Settings" to view or change setting functions

#### 5. Entry

Press the "Open" button or the door icon to unlock the door.

6. Auto

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

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

7. Auto Proximity Range

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

**The Administrator "Settings" Page**

Tap "Settings" to view or change setting functions.

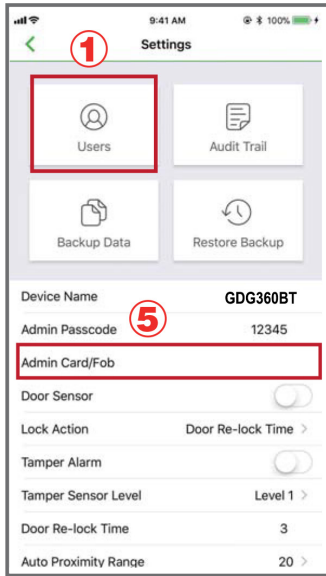


Figure 1

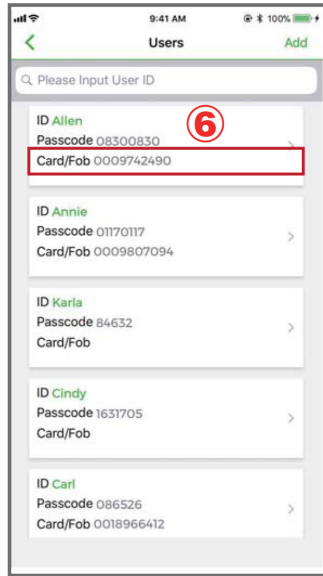


Figure 2

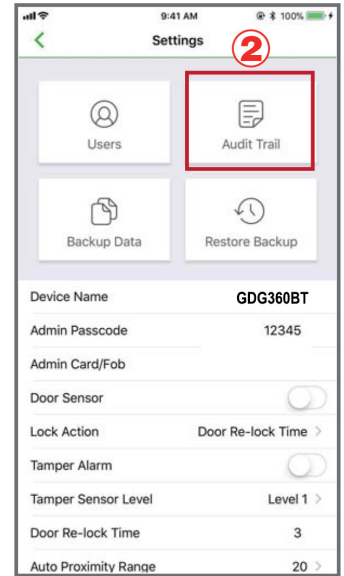


Figure 3

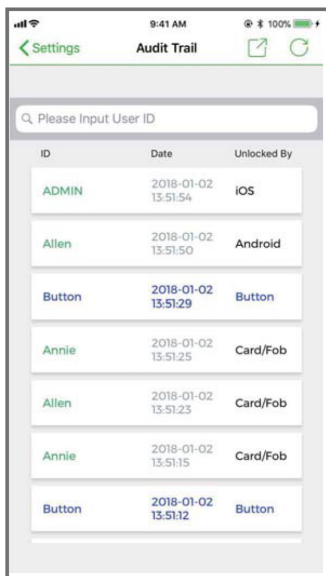


Figure 4

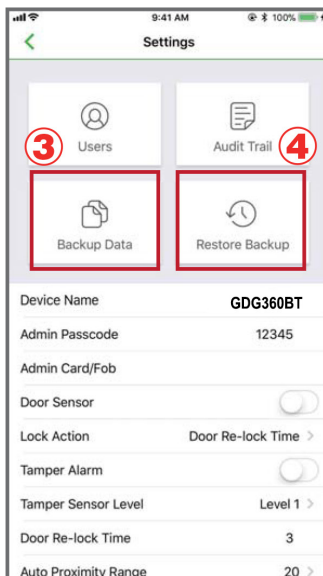


Figure 5

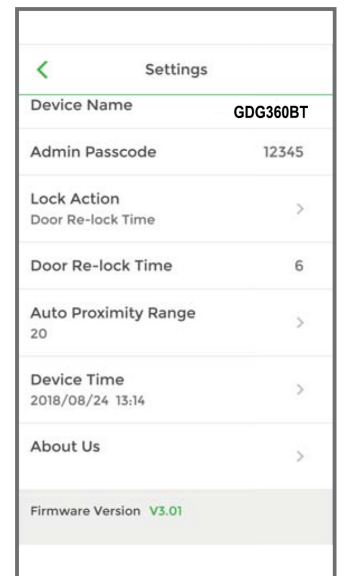




Figure 6



1. Users (See Figure 1)
  - Add / Delete / Edit user information.
  - ID (Up to 16 characters)
  - Passcode (4~8 digits)
  - Card/Fob
  
2. Audit Trail (See Figure 3 and 4)
  - Audit Trail is tracking last 1000 event logs.
  - Enter an user ID to search events for an user.
  - Tap  to export all events to excel file.
  - Tap  to refresh all events.
  
3. Backup Data (See Figure 5)
  - Backup Data is to backup Users, Admin Passcode, Lock Action, and Door Re-lock Time to Administrator's phone and can be restored except Device Name, Auto Proximity Range, 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 Completed!*
  
4. Restore Backup (See Figure 5)
  - Restore the last backup data by Admin's phone to another Bluetooth device.
  - Step 1: Press "Restore Backup", the App will show: *Backup all data now?*
  - Step 2: Press Confirm, the App will show: *Restore Status Restore Completed!*
  
5. Admin Card/Fob (See Figure 1)
  - Enter or edit 10 numbers from Admin's card/fob.
  - Step 1: Tap "Admin Card/Fob." The App will show Edit Admin Card/Fob.
  - Step 2: Enter 10 numbers and press Confirm, the App will show Admin's card/fob number.
  
6. User Card/Fob (See Figure 2)
  - Enter or edit 10 numbers from user's card/fob.
  - Step 1: Tap "Users." The App will show User Info and Edit User Card/Fob.
  - Step 2: Enter 10 numbers and press Confirm, the App will show User's card/fob number.
  
7. General Settings (See Figure 6)
  - Device Name: Edit Device Name (Up to 16 characters)
  - Admin Passcode: Edit Admin Passcode (4~8 digits)
  - Lock Action (3 options) – Choose Door Re-lock Time, Door Always Unlocked, and Door Always Locked.
  - Door Re-lock Time: 6 seconds by default. You can modify Door Re-lock Time from 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 Model, App version, Website and E-Mail information.
  - Firmware version: See Firmware version of your Bluetooth device.

### User's Settings

Tap "Settings" to view or change setting functions. (See Figure 7 below)

- Device Name: User can only view the Device Name. (See Figure 8 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 9 below)
- About Us: View Device Model, App version, Website and E-mail information. (See Figure 10 below)

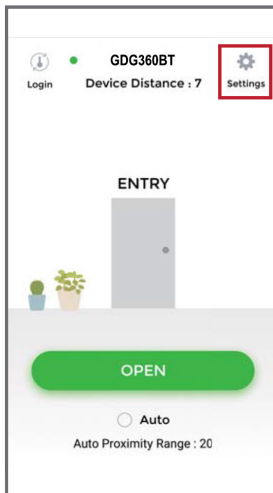


Figure 7

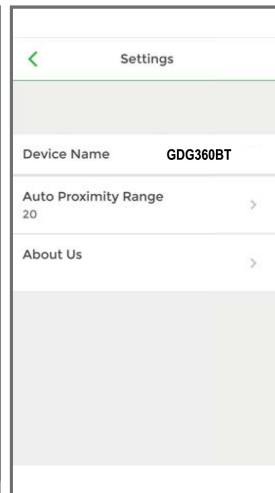


Figure 8

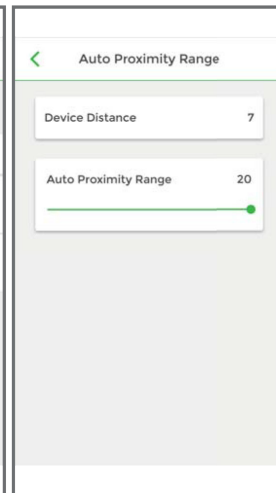


Figure 9



Figure 10

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