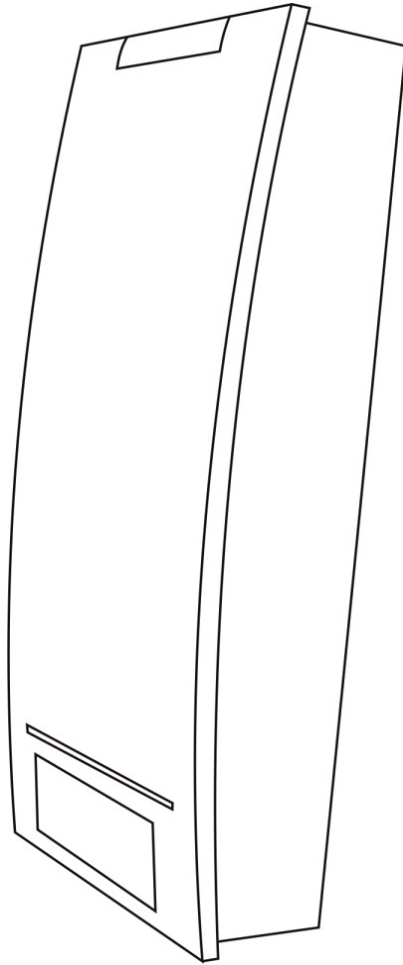# RBR-SB-KTZ001 LAR 2

User Manual

INTRODUCTION ━━━━━━━

KTZ001 is a compact, waterproof stand-alone programmable access control system that provides proximity entry for up to 2000 users. Read both EM and HID card. It uses Atmel microcontroller that assures maximum performance in any environment, and the low-power circuit makes its service life prolonged.

The product unique feature is simple in design, easy to operation and high reliability.

Features:

- Waterproof, conform to IP66
- 125 kHz EM&HID card
- One programmable relay operation
- Pulse mode, Latch mode
- Remote infrared programmer
- 2000 users
- Card block enrolment
- Tri-colour LED status display
- Built in light dependet resistor LDR for anti tamper
- Buzzer for audible or silent mode
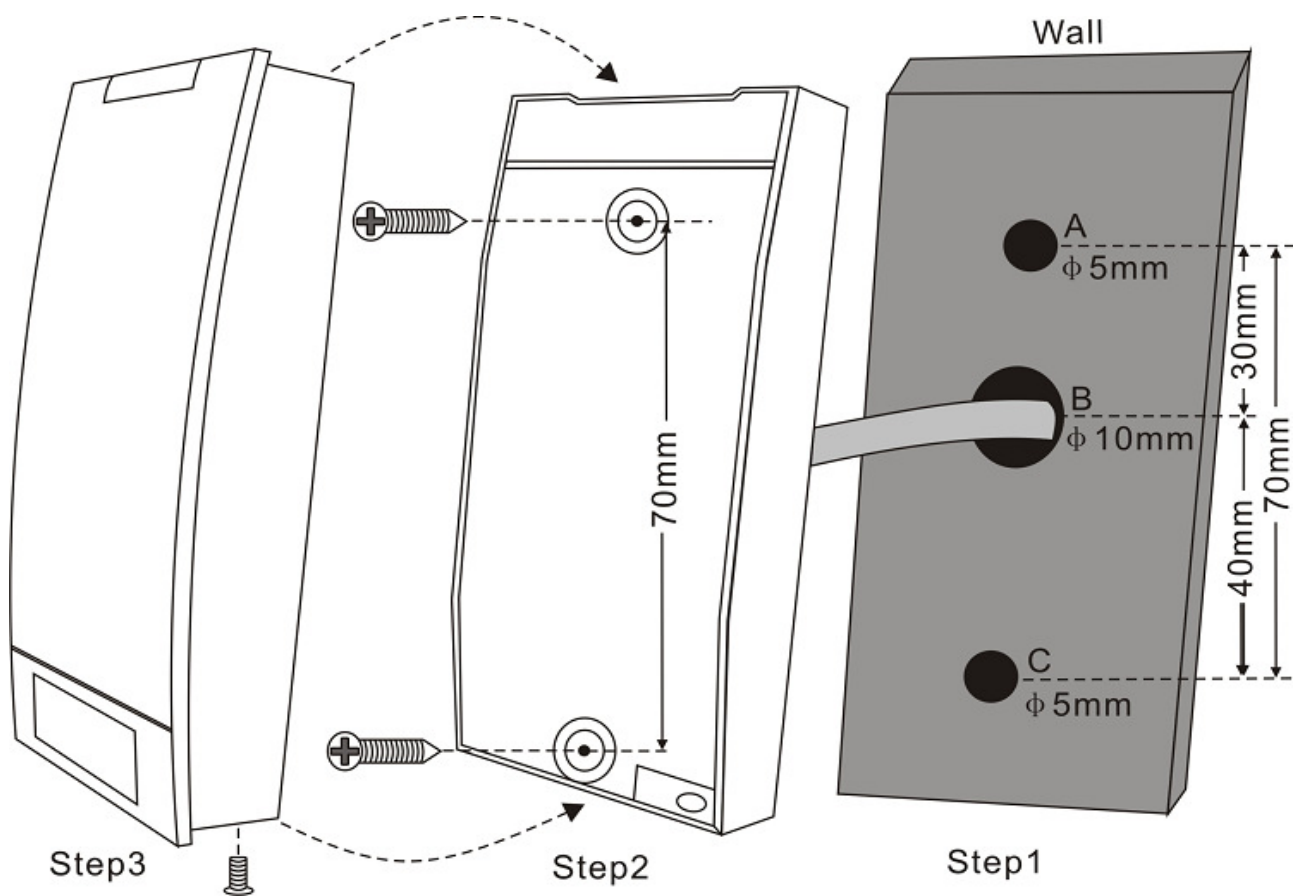- Low Temperature Resistance (-40°C)

Specifications:

User Capacity	**2000**
Card	EM card HID card
Operating Voltage	**12~24 VDC**
Idle Current	<40mA
Proximity Card Reader	**EM&HID**
Radio tecnology	125 kHz Proximity Card
Read Range	3-10cm
Wiring Connections	Relay Output, Exit Button
Relay	**1 x (C, NO, NC)**
Adjustable Relay output Time	1-99 sec (5 sec default)
Lock Output Load	2 A Max
Environment	**Meets IP66**
Operating Temperature	-40℃ ~60℃
Operating Humidity	20%RH-98%RH
Physical	**ABS Shell**
Color	Black
Dimensions	H: 102* Sz: 48 * M:20mm
Unit Weight	150g
Shipping Weight	250g

Carton Inventory:

1 x RBR-SB-KTZ Reader

1 x Infrared Remote Control

1 x Diode IN4004 (for relay circuit protection)

2 x Self tapping Screws：Φ3*25mm

2 x Wall Anchors

1 x Screw Driver

INSTALLATION ────────

- Remove the back cover from the unit
- Drill 2 holes (A, C) on the wall for the screws and one hole for the cable.
- Knock the supplied rubber bungs to the screv holes (A, C) .
- Fix the back coverfirmly on the wall with 2 flat head screws.
- Thread the cable through the cable hole (B).
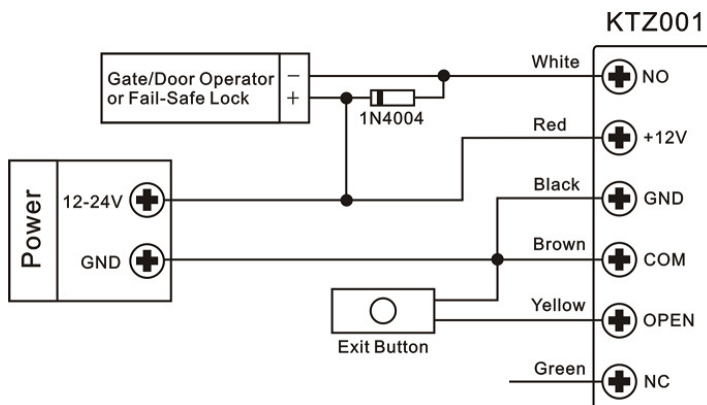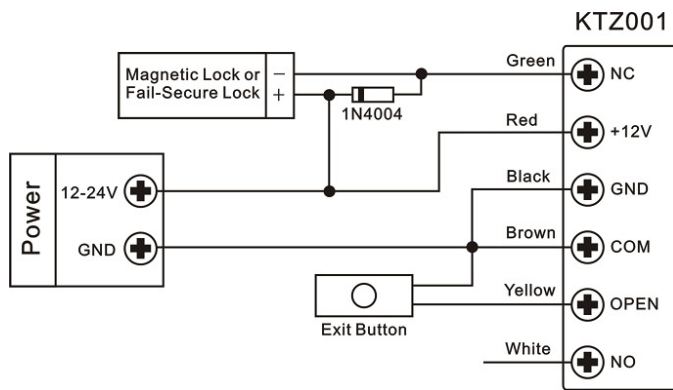- Attach the unit to the back cover.

Step3   Step2   Step1

Wiring

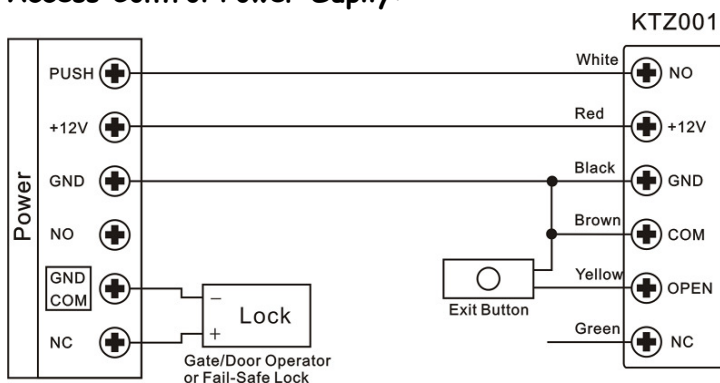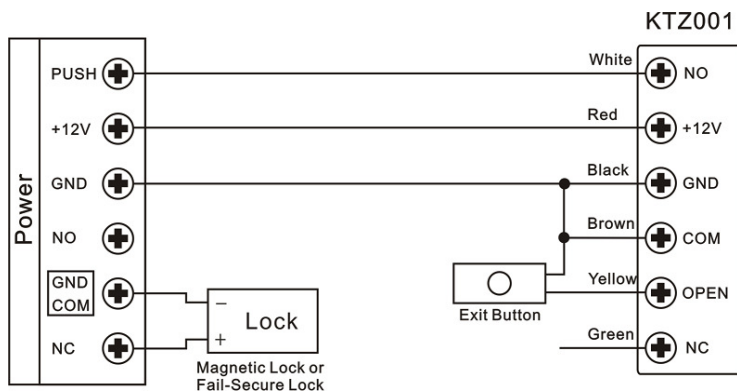| Colour	Function	Notes
Red	Power +	12~24 V DC Regulated Power Input
Black	GND	Ground
White	NO	Normaly Open relay
Brown	COM	Common for relay output
Green	NC	Normaly Closed relay
Yellow	OPEN	Request to exit Input (REX)

Connection Diagram

Common power suplly:

Attention: Install a 1N4004 or equivalent diode is needed when use a common power suplly, or the reader might be damaged. (1N4004 is included in the packing).

Access Control Power Suplly:

KTZ001

PROGRAMMING

Programming will vary depending on access configuration. Follow the instructions according to your access configuration.

General Programming Information

- **Remote Control:** Please use the Infrared Remote Control to program the Reader. The infrared receiver head is near LED, so when program the reader, direct the Remote Control to the LED.
- **User ID number**: Assign a user ID to the access card in order to track it. The user ID number can be any number from 1~2000. IMPORTANT: User IDs do not have to be proceeded with any leading zeros. Recording of User ID is crical. Modifications to the user require the User ID be available.
- **Proximity Card**: Any 125KHz industry standard 26 bit EM and HID Proximity card or Tag.

Enter and Exit Program mode

Programming Step	Keystroke Combination
Enter Program Mode	*** (Master Code) #** *Factory default is 123456*
Exit Program Mode	*

Set Master Code

Programming Step	Keystroke Combination
1. Enter Program Mode	*** (Master Code) #**
2. Update Master Code	0（New Master Code）#（Repeat New Master Code）#
3. Exit Program Mode	*

Add User Cards

Programming Step	Keystroke Combination
1. Enter Program Mode	*** (Master Code) #**
2. Add Card: Using Auto ID (Allows KTZ001 to assign Card to next available User ID number) **OR**	**1 (Read Card) #** Repeat Step 2 for additional user cards
2. Add Card: Select Specific ID (Allows manager to define a specific User ID to associate the card to) **OR**	**1 (User ID) # (Read Card) #** The user ID is any number from 1-2000.
2. Add Card: by Card Number	**1 (Input 8/10 digits Card number) #**

OR	

2. Add Card: Block Learn
   (Allows manager to add up to 2000 cards
   to the Reader in a single step.) Takes 3
   minutes to program.
	1 (User ID number) # (Card quantity)
	#(The first card number) #
	Cards' number must be consecutive;
	Card quantity = number of card to be enrolled.

3. Exit	*

Delete User Cards

Programming Step	Keystroke Combination
1. Enter Program Mode	* **(Master Code) #**
2. Delete Card: By read card OR 2. Delete Card: Select Specific ID OR 2. Delete Card: by Card Number	**2 (Read Card) #** Repeat Step 2 for additional user cards **2 (User ID) #** The user ID is any number from 1-2000. **2 (Input 8/10 digits Card number) #**

Set Relay Configuration

The relay configuration sets the behaviour of the output relay on activation.

Programming Step	Keystroke Combination
1. Enter Program Mode	* **(Master Code) #**
2. Pulse Mode OR 2. Latch Mode	**3 (1-99) #** The relay time is 1-99 seconds(default is 5 seconds) **3 0 #** Sets the relay to ON/OFF Latch mode
3. Exit	*

Set Strike-out Alarm

The strike-our alarm will engage after 10 failed card attempts. Factory is OFF. The strike-our alarm ca be set to deny access for 30 minutes after engaging or it can be set disengage only after entering a valid card or Master code.

Programming Step	Keystroke Combination
1. Enter Program Mode	* **(Master Code) #**
2. Strike-Out OFF OR 2. Strike-Out ON OR 2. Strike-Out ON (Alarm) Set alarm time	**4 0 #** (factory default) **4 1 #** Access will be denied for 10 minutes **4 2 #** 5 (0 ~ 30) #, factory default is 1 minute Enter Master code # or valid user card to silence
3. Exit	*

Set Audible and Visual Response

Programming Step	Keystroke Combination	
1. Enter Program Mode	* (Master Code) #	
2. Control LED OR 2. Control Sounds	OFF = **6 1 #** OFF = **6 3 #**	ON = **6 2 #** ON = **6 4 #** (Factory defaults are ON)
3. Exit	*	

Others ━━━━━━━━

Users Operation:

Open the door: Read the valiad user card, the door will open.

Remove Alarm: Read valid user card, or Input Master code #

Reset to Factory Default:

To reset to factory default, power off, press Exit door button , hold it and power on, release it after hear two beeps, the LED light will turn into yellow, after 10 seconds, it will turn into red after one beep, mean reset to factory default successfully.

Remarks: Reset to factory default, the user's information is still retained.

Erase all Cards

This will delete ALL User data.

1, Enter Program Mode by press: *(Master Code) #.

2, Press 2 and Master code again

3, Exit: *

All configuration data is retained.

Sound and Light indication

Operation Status	LED	Buzzer
Stand by	Red light bright	-
Enter into programming mode	Red light shines	One beep
In the programming mode	Yellow light bright	One beep
Operation error	-	Three beeps
Exit from the programming mode	Red light bright	One beep
Open lock	Green light bright	One beep
Alarm	Red light Shines quickly	Beeps

KTZ001- Simplified Instruction

Function description	Choose from the relevant functions below and input
Enter the programming mode	***- 123456 - #** *then you can do the programming* *(123456 is the default factory master code)*
change the master code	**0 – new code - # - repeat the new code - #** *(code: 6 digits)*
Add card user	**1- Read Card - #** *(can add Cards continuously)*
Delete card user	**2 – Read Card -#** *(can delete Cards continuously)*
Exit from the programming mode	*
How do release the door	
Card User	Read card