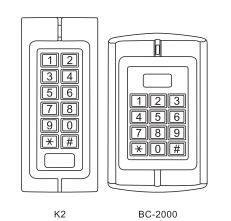
K2/BC-2000 **Access Control**



1. Introduction

The BC-2000/K2 is a standalone access control, they use the latest microprocessor technology to operate door strikes and security systems that require a momentary (timed) or latching dry

All programming is done through the keypad. Codes and operating parameters are stored within the microprocessor and can not be lost due to power failure.

The BC-2000/K2 can store 1000 users with card and 4-6 digits password codes. It has one relay output with 3 Amp changeover contacts.

2. Specifications

1.Programmable Functions Relay momentary Change Codes 1 master, 1000 users

2.Programmable Timers Door relay time 1-99 seconds Alarm time 1-3 minutes

3.Pulse Mode Toggle Mode

4.12V DC Metal shell keypad 12 keys with backlight

User Manual

5. Wiring Connections

Electric lock External bell External Push Switch Magnetic Contacts Alarm

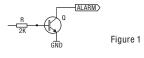
3. Important Information

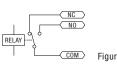
If holes are to be drilled before mounting onto a wall, check for hidden cables and/or pipes before drilling. Use safety goggles when drilling or ham mering in cable clips.
Every effort has been made to provide accurate information, however slight variations can occur. We also reserve the right to make changes for product improvement at any time

NOTE: please read these instructions carefully before attempting to install the BC-2000/K2

Internal Interface Circuit

1. Alarm output interface (See Figure 1) 2. Electric lock interface (See Figure 2)

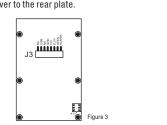




(**b**)

1. Attach the rear plate to a single or double gang electrical box or secure to the wall firmly with at least three flat head screws. When wiring has been completed, attach the front cover to the rear plate.

4. Mounting





5. Wiring

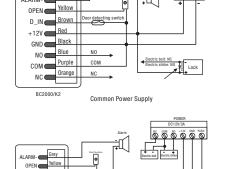
Figure 4

 Unplug the cable harness and connect the necessary cables (See Figure 3). 2. Tape any wires that are unused. 3. Plug in the cable harness on the PCB (See Figure 3)
4.attach the front cover(See Figure 4) **D**

Terminal Wire Connector Function

1	ALARM	Grey	Alarm Switched negative when active
2	OPEN	Yellow	To Door EXIT Request Button Then Negative
3	D_IN	Brown	To Door Contact Then To Negative
4	12V	Red	(+) 12VDC Positive Regulated Power Input
5	GND	Black	(-) Negative Regulated Power Input
6	NO	Blue	Door Strike Relay NO
7	СОМ	Purple	Door Strike Relay Com
8	NC	Orange	Door Strike Relay NC

Do not plug the power supply or transformer into the mains until all wiring has been completed



6. Detailed Programming Guide

	* Moster code #
To enter the programming mode	* Master code #
	9999 is the default factory master code
To exit from the programming mode	*
Note that to undertake the following programming the master user must be logged in	
To change the master code	O New code # New code # The master code is any 4-6 digits
Setting the working mode: Set valid card only users Set valid card and PIN users Set valid card or PIN users	30里 by card only 311 by card and PIN together 32 by either card or PIN (default)
To set a user in either card or PIN mode (3 2 #) (Defau	Ilt setting)
To add a PIN user	The ID number (# PIN # The ID number is any number between 000-999. The PIN is any 4-6 digits between 0000-999999 with the exception of 1234 which is reserved. Users can be added continuously without exiting from programming mode as follows: 1 User ID no 1 # PIN # User ID no 2 # PIN #
To delete a PIN user	[2]User ID number[#] Users can be deleted continuously without exiting programming mode
To change the PIN of a PIN user (This step must be done out of programming mode)	* [ID number#] [Old PIN#] [New PIN#] [New PIN#]
To add a card user (Method 1) This is the fastest way to enter cards using ID number auto generation.	Read card # Cards can be added continuously without exiting programming mode
To add a card user (Method 2) This is the alternative way to enter cards using User ID Allocation. In this method a User ID is allocated to a card. Only one user ID can be allocated to a single card.	[] [ID number] # [ReadCard] #]
To delete a card user by card number. Note users can be deleted continuously without exiting programming mode	2 Read Card #

To delete a card user by user ID. This option can be used when a user has lost their card To set a card and PIN user in card and PIN mode (311# Add the card as for a card user Press⊠ to exit from the programming mode Then allocate the card a PIN as follows: ■ (Read card) 1234 # PIN# (PIN#) To Add a card and PIN user(The PIN is any 4-6digits between 0000 & 999999 with the exception of 1234 which is reserved.) To change a PIN in card and PIN mode (Method 1) Note that this is done outside programming mode so the user can undertake this themselves * Read Card Old PIN # New PIN # New PIN # To change a PIN in card and PIN mode (Method 2) Note that this is done outside programming mode so the user can undertake this themselves * | [ID number #] [Old PIN #] | New PIN #] | New PIN # To delete a Card and PIN user just delete the card 2 User ID # To set a card user in card mode (3 0 #) The operating is the same as adding and deleting a card user in 3 2 # To Add and Delete a card user To delete All users To delete ALL users. (Note that this is a dangerous option so use with care) 2 0000 # To unlock the door Enter the PIN then press# For a PIN user For a card User

6.2. Relay Setting (Pulse mode, Toggle mode)

For a card and PIN user

Pulse mode (Factory default)		
Pulse mode - Door relay time setting	The door relay time is between 1~99 seconds, the factory default setting is 5 seconds. 1 second actually represents 50 ms. Every time a valid tag/card or PIN is read/input in Pulse Mode, the relay will operate, for the pre-set relay pulse time.	

(P)

Toggle mode	
Toggle mode	40順 Every time a valid tag/card or PIN is read/input in Toggle Mode, the relay changes state, which will not turn back until read card or input PIN again.

5 1~3 #

6.3. Alarm Settings, Door Detecting

To set the alarm output time (1~3 minutes

Alarm output time

Alarm Output

Factory default is 1 minute

Door Open Detection Door Open Too Long (DOTL) warning.		
When used with an optional magnetic contact or built-in magn closed after 1 minute, the inside buzzer will beep automaticall before switching off automatically.		
Door Forced Open warning. When used with an optional magnetic contact or built-in magn door is opened after 120 seconds of the electro-mechanical loboth operate. The Alarm Output time is adjustable between 1~	ock not closed properly, the inside buzzer and alarm output wil	
To disable door open detection(Factory default)	60#	
To enable door open detection	61#	
Keypad Lockout & Alarm Output options. If there are 10 invalid cards or 10 incorrect PIN numbers in succession either the keypad will lockout for 10 minutes or the alarm will operate, depending on the option selected below.		
Normal status: No keypad lockout or alarm (factory default)	70# (Factory default setting)	
Keynad Lockout	7.1.#	

7. To remove the alarm

To reset the Door Forced Open warning	Read valid card or Master Code #
To reset the Door Open Too Long warning	Close the door or Read valid card or Master Code #

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8. Resetting To Factory Default Setting

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To reset to factory default, power off, press 📵, hold it and power on, release it until hear three beeps(two short, one long), means reset to factory default successfully.

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

9. Technical Specification

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Supply Voltage	12V DC
Current Consumption	<20mA
Door Relay	3A
Alarm output load	3A
Memory	Non volatile EPROM memory
Codes	1000 Users
Keypad	12 keys, 3 LED status indicators
Card Types	EM or EM compatible
Induction Distance	2-6cm
	Electric lock
Wiring Connections	Remote Request to Exit
Wiring Connections	Door open detection
	External Alarm
Tamper Protection	Negative loop, normally closed
Keypad Housing	Metal
Operating Temperature	-40°C to 60°C (-40°F to 140°F)
Dimensions	L128 mm×W82 mm×H28mm (BC-2000) L135 mm×W58 mm×H26 mm (K2)
Weight	500g

10. Package Listing

Name	Model no.	Qnty	Remark
Digital Keypad	BC-2000/K2	1	
User Manual	BC-2000/K2	1	
Diode	1N4004	1	
Wall Fixing Plug	Ф6mm × 27 mm	4	Used for fixing
Self TapPINg Screws	Ф4mm × 27 mm	4	Used for fixing

BC-2000/K2 Quick Reference Programming Guide

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To enter the programming mode	* Master code # 9999 is the default factory master code
To exit from the programming mode	*
Note that to undertake the following programming the master	user must be logged in
To change the master code	O New code # New code # The master code can be 4-6 digits long
To add a PIN user	1 User ID number # PIN # The ID number is any number between 000 ~ 999. The PIN is any 4-6 digits between 0000 ~ 99999 with the exception of 1234 which is reserved. Users can be added continuously without exiting programming mode
To add a card user	T Read Card) # Cards can be added continuously without exiting from programming mode
To delete a PIN or a card user.	2] User ID number # for a PIN user or 2] Read Card # for a card user Users can be deleted continuously without exiting from programming mode

	To unlock the door		
	To unlock the door for a PIN user	Enter the PIN then press#	
	To unlock the door for a card user	Present the card	