Contents

1.Introduction 1
2.Specifications 1
3.Important Information 1
4.Mounting 2
5.Wiring 2
6.Detailed Programming Guide 4
6.1. User Settings 4
6.2. Relay Setting (Pulse mode, Toggle mode) 5
6.2. Relay Setting (Pulse mode, Toggle mode) 5 6.3. Alarm Settings, Door Detecting 6
6.3. Alarm Settings, Door Detecting 6
6.3. Alarm Settings, Door Detecting 6 7.To Remove The Alarm 6
6.3. Alarm Settings, Door Detecting 6 7. To Remove The Alarm 6 8. Resetting To Factory Default Setting 7

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 contact closure.

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 Relay strike time Pulse mode, Toggle mode Change Codes 1 master, 1000 users

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

5. 12V DC Metal shell keypad 12 keys with backlight

ALARM

External Push Switch

Magnetic Contacts

4. Wiring Connections

Electric lock External bell

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 hammering 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

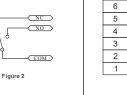
NOTE: please read these instructions carefully before attempting to install the ~BC-2000/K2

Internal Interface Circuit

3. Pulse Mode Toggle Mode

2. Electric lock interface (See Figure 2)

1. Alarm output interface (See Figure 1) Figure



Tog

Toggle mode	
Toggle mode	40) 伊 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.

6.3. Alarm Settings, Door Detecting

Alarm output time			
To set the alarm output time (1~3 minutes) Factory default is 1 minute	5 1~3 #		
Door Open Detection Door Open Too Long (DOTL) warning. When used with an optional magnetic contact or built-in magnetic contact of the lock, if the door is opened normally, but not closed after 1 minute, the inside buzzer will beep automatically to remind people to close the door and continue for 1 minute before switching off automatically. Door Forced Open warning. When used with an optional magnetic contact or built-in magnetic contact of the lock, if the door is opened by force, or if the door is opened after 120 seconds of the electro-mechanical lock not closed properly, the inside buzzer and alarm output will both operate. The Alarm Output time is adjustable between 1~3 minutes with the default being 1 minute.			
To disable door open detection (Factory default)			
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)		
Keypad Lockout	71#		
Alarm Output	72#		

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 #
).	δ.

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 prog	ramming the master user must be logged in	
To change the master code	0 New code # New code # The master code is any 4-6 digits	
Setting the working mode:		
Set valid card only users	30# by card only	
Set valid card and PIN users	3 1 # by card and PIN together	
Set valid card or PIN users	32# by either card or PIN (default)	
To set a user in either card or PIN mode (32 #) (Default setting)	
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 0000-999999 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)	* D number# Old PIN# New PIN# New PIN#	
To add a card user (Method 1)	1 Read card #	
This is the fastest way to enter cards	Cards can be added continuously without	
using ID number auto generation.	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.	1][D number][#][ReadCard][#]	
To delete a card user by card number. Note users can be deleted continuously without exiting programming mode	[2][Read Card][#]	

6.Detailed Programming Guide

To delete a card user by user ID. This option can be used when a user has lost their card	2 User ID #	
To set a card and PIN user in card and PIN mode (3 1 #)		
To Add a card and PIN user (The PIN is any 4-6 digits between 0000 & 999999 with the exception of 1234 which is reserved.)	Add the card as for a card user Press Ito exit from the programming mode Then allocate the card a PIN as follows: Read card 1234 # PIN # PIN #	
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	* []D.number#] [Old PIN#] [New PIN#] [New PIN#]	
To delete a Card and PIN user just delete the card	2UserID #	
To set a card user in card mode (3 0 #)		
To Add and Delete a card user	The operating is the same as adding and deleting a card user in 3 2 #	
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		
For a PIN user	Enter the PIN then press#	
For a card User	Read card	
For a card and PIN user	Read card then enter PIN #	

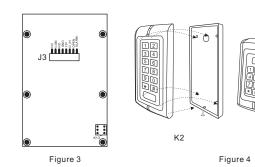
6.2. Relay Setting (Pulse mode, Toggle mode)

Pulse mode - Door relay time setting	4 1~99 # The door relay time is between 1~99 seconds, the factory default setting is 5 seconds. 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
--------------------------------------	--

4.Mounting

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.

2. When wiring has been completed, attach the front cover to the rear plate.



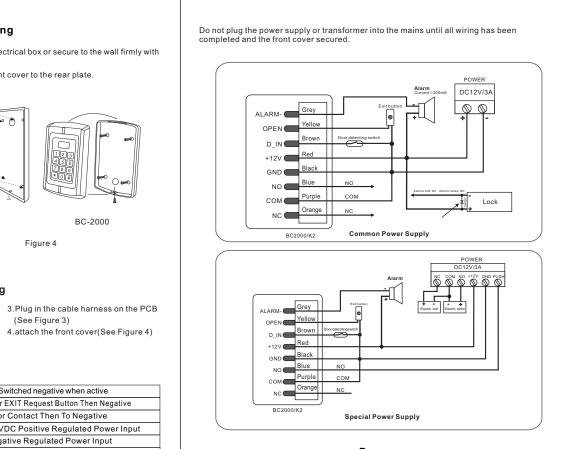


1.Unplug the cable harness and connect the necessary cables(See Figure 3). (See Figure 3) 2. Tape any wires that are unused.

Terminal Wire Connector Function

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

2



Power on

After all wiring is completed and the unit face plate is attached to the back plate, power on, the red LED will be flashing.

.3.

BC-2000/K2 Quick Reference Programming Guide

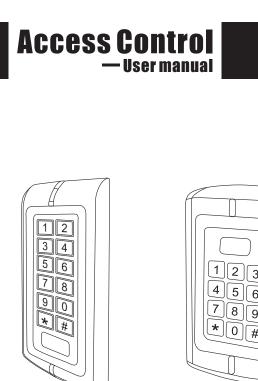
To enter the programming mode	* Master code # 9999 is the default factory master code	
To exit from the programming mode	*	
Note that to undertake the following programming the master user must be logged		
To change the master code	0 <u>New code</u> <u># New code</u> <u>#</u> The master code can be 4-6 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 betweer 0000 ~ 999999 with the exception of 1234 which is reserved. Users can be added continuously without exiting programming mode	
To add a card user	1 <u>Read Card</u> # Cards can be added continuously without exiting from programming mode	
To delete a PIN or a card user.	2UserID numberI # for a PIN user or 2Read CardI # 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	

8.Resetting To Factory Default Setting 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

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	
Wiring Connections	Electric lock	
	Remote Request to Exit	
	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	

Name	Model no.	Qnty	Remark
Digital Keypad	BC-2000/K2	1	
User Manual	BC-2000/K2	1	
Diode	1N4007	1	
Wall Fixing Plug	Φ 6mm×27 mm	4	Used for fixing
Self TapPINg Screws	crews 0.4mm×27mm		Used for fixing
7			



K2

BC-2000