

IP67 125KHz Universal Multi-Function Keypad and Proximity Reader

UKP-EM



User Manual

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

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1. Packing List

ITEM	QTY	REMARKS
Digital Keypad - UKP-EM	1	
User Manual	1	
Secure Torx Screwdriver	1	
Wall Plugs	4	6 x 27mm for wall fixing
Self Tapping Screws	4	4 x 28mm
1N4007 Diode	1	
Manager Cards	2	Manager Add & Manager Delete

Please ensure all the above contents are correct. If any are missing, please notify your supplier.

2. Description

The UKP-EM is a dual-relay access control keypad with EM & HID 125 KHz built in card reader. It is suitable for mounting either indoor, or outdoor in harsh environments. It 's housed in a strong, sturdy and vandal resistant, zinc alloy, electroplated case. The electronics are fully potted so the UKP-EM is waterproof and conforms to IP67.

The UKP-EM supports up to 2,100 Card Users, 4~8 digit PIN, Card + PIN option and additional 10 groups Duress PIN/Card. The built-in Card Reader supports both EM & HID 125 KHz frequency Cards/Tags. The UKP-EM has many extra features including Duress PIN/ Card, Block Enrollment, Wiegand 26~37 bit Interface, and backlit Keypad...etc.

These features make UKP-EM an ideal choice for door access not only for small shops and domestic households, but also for commercial and industrial applications such as factories, warehouses, laboratories, banks and prisons.

3. Features

- Water Resistant, conforms to IP67
- Strong zinc alloy electroplated anti-vandal case
- Two relay operation
- 2,100 users & 10 groups for duress PIN/Card
- Zone 1: up to 2,000 PIN & card holders
- Zone 2: up to 100 PIN & card holders
- Both Relay Zones can be programmed for 3 modes: Card, PIN, Card + PIN for Stand alone mode

PLEASE NOTE:

- For Wiegand mode the keypad can be used for **EITHER** Card **OR** Pin – NOT both.
- Wiegand data is sent on a first come first send basis: if you show the card and then the pin, the keypad will transmit the card ID immediately and then the pin number as a Wiegand ID straight after that. For this reason Card & Pin are not relevant in Wiegand mode – only useful in standalone mode.

- In Wiegand mode, PIN number = Wiegand ID that your 3rd party controller will see.

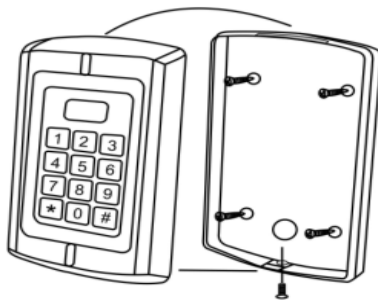
- Reads both EM & HID 125KHz cards
- PIN length 4~8 digits
- Pulse mode or Toggle mode options
- Wiegand 26~37 input & output
- Can operate as a reader or controller
- Dual relay outputs for door opening, door status detection, exit button connection
- Card block enrolment
- Manager cards for individually adding or deleting card users (Zone 1)
- Low power consumption (25mA)
- Blue Back Lit Keypad
- Back Light and Keypad tone can be disabled
- Supports door bell connection (Zone 2)
- Built in light dependent resistor (LDR) for anti tamper
- Built in buzzer
- Red, yellow, green and blue status LED
- DC12~24V or AC12~18V
- Two-year warranty

4. Specification

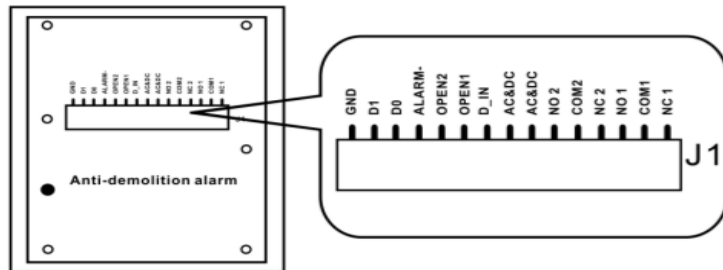
Operating Voltage	DC12-24V Or AC12-18V
User Capacity	2100 & 10 Additional groups for duress- PIN/Card
Keypad	12 Keys, 3 x 4 Digits
Card Type	EM & HID 125 KHz Cards / Fobs
RF Card Reading Distance	3 - 6 Cm
Active Current Draw	≥ 60mA
Idle Current Draw	≥ 25mA
Lock Relay Output Load	Max 2A
Alarm Relay Output Load	Max 20A
Operating Temperature	-20° to +60°C
Operating Humidity	10% - 90% RH
Environmental Rating	IP67
Adjustable Door Relay Time	1 - 99 Seconds
Adjustable Alarm Time	0 - 3 Minutes
Wiegand Interface	Wiegand 26 or 37 Bit Input & Output
Wiring Connections	Electric Lock, Exit Button, DOTL, External Alarm
Dimensions	L128 X W82 X H28 mm
Net Weight	600g
Gross Weight	700g

5. Installation

- Remove the back cover from the keypad using the supplied security screwdriver
- Drill 4 holes on the wall for the screws and 1 hole for the cable
- Fix the back cover firmly on the wall with 4 flat head screws
- Thread the cable through the cable hole
- Attach the keypad to the back cover



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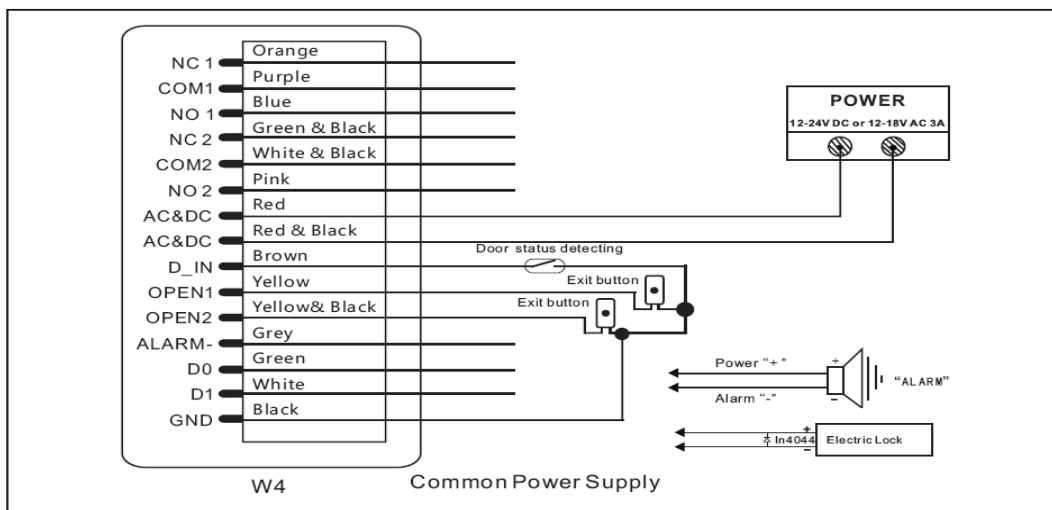
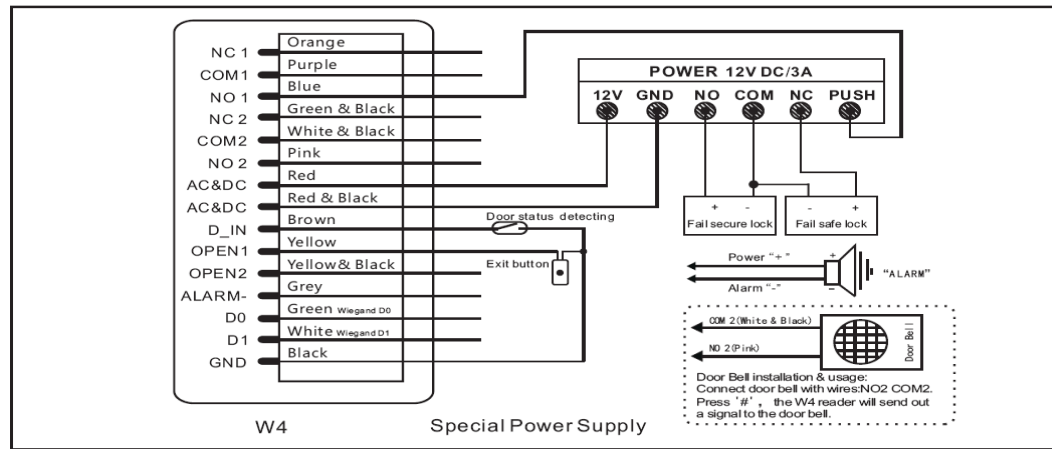


PCB connect diagram

6. Wiring Guide

COLOUR	FUNCTION	DESCRIPTION
Orange	NC 1	RELAY 1 - NORMALLY CLOSED
Purple	COM 1	RELAY 1 COMMON
Blue	NO 1	RELAY 1 NORMALLY OPEN
Green & Black	NC 2	RELAY 2 - NORMALLY CLOSED
Black & White	COM 2	RELAY 2 COMMON
Pink	NO 2	RELAY 2 NORMALLY OPEN
Red	AC & DC +	DC12-24V Or AC12-18V REGULATED INPUT
Red & Black	AC & DC -	DC12-24V Or AC12-18V REGULATED INPUT
Brown	D_IN	DOOR CONTACT
Yellow	OPEN 1	REQUEST TO EXIT BUTTON FOR ZONE 1
Yellow & Black	OPEN 2	REQUEST TO EXIT BUTTON FOR ZONE 2
Grey	ALARM	ALARM NEGATIVE
White	D1	WIEGAND INPUT/OUTPUT D1
Green	D0	WIEGAND INPUT/OUTPUT D0
Black	GROUND	NEGATIVE / GROUND / EARTH

Connection Diagrams



7. Relay Operation - (Pulse and Toggle Mode)

Both relays on board operate in Pulse Mode (suitable for access control) or Toggle Mode (suitable for arming/disarming alarms, switching lights, machines....etc)

In Pulse Mode: every time a valid Tag/Card or PIN is read/input, the relay operates for the pre-set relay pulse time.

In Toggle Mode: every time a valid Tag/Card or PIN is read/input, the relay changes state, which will not turn back until the user presents a valid card or pin number again.

8. Anti Tamper Alarm

The UKP-EM uses a LDR (light dependent resistor) as an anti tamper alarm. If the keypad is removed from the cover, the tamper alarm will operate.

9. Sound & LED Indication

OPERATION	RED LED	GREEN LED	AMBER LED	BLUE LED	BUZZER
ZONE 1 UNLOCK	-	ON	-	-	SHORT BEEP
ZONE 2 UNLOCK	-	-	-	ON	SHORT BEEP
POWER ON	ON	-	-	-	LONG BEEP
STAND BY	FLASHING	OFF	-	-	
KEY PRESS	FLASHING	-	-	-	SHORT BEEP
SUCCESSFUL OPERATION	-	ON	-	-	LONG BEEP
OPERATION FAILED	FLASHING	-	-	-	3 SHORT BEEPS
ENTER PROGRAMMING MODE	ON	-	-	-	LONG BEEP
IN PROGRAMMING MODE	ON	-	ON	-	
EXIT PROGRAMMING MODE	FLASHING	-	-	-	LONG BEEP
ALARM	FLASHING	-	-	-	ALARM

10. UKP-EM Detailed Programming Guide

• To Reset to Factory Default

To reset to factory default, please follow the following steps :

1. Power Off
2. Press & hold * and power On
3. Release it when you hear two beeps and the LED goes orange
4. Read two EM or HID cards, the LED will turn red, which means the keypad has successfully been reset to the factory default setting.
5. Of the two cards read, the first one is Manager Add Card, the second one is Manager Delete Card.

Remarks: When you reset to factory default, the user's information is still retained.

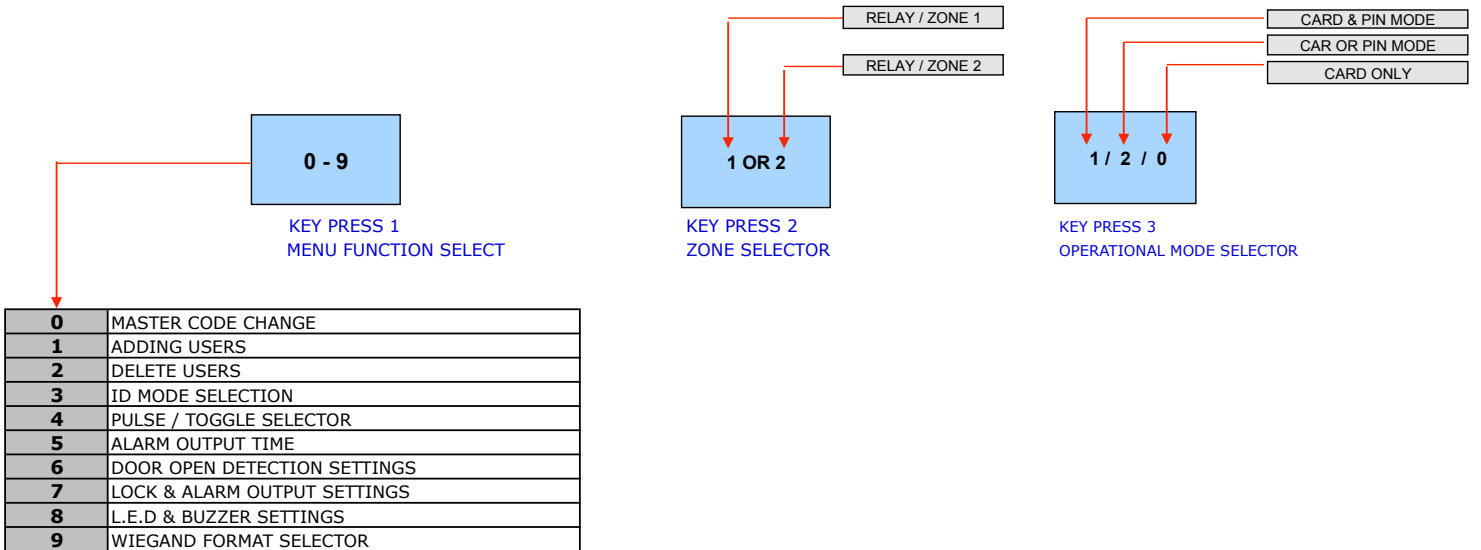
10.1 USER SETTINGS

SETTING	STEPS	RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
BEFORE YOU START	OBSERVE KEYPAD STATUS OUT THE BOX	FLASHING	-		-
TO ENTER PROGRAMMING MODE	PRESS <input type="button" value="*"/>	ON	-		1 BEEP
	ENTER <input type="text" value="888 888 (DEFAULT MASTER CODE)"/>	ON			6 BEEPS
	PRESS <input type="button" value="#"/>	ON	SHORT FLASH		1 BEEP
TO EXIT PROGRAMMING MODE	PRESS <input type="button" value="*"/>	FLASHING	-		1 BEEP

PLEASE NOTE: MASTER CODE IS REQUIRED FOR ALL PROGRAMMING FUNCTIONS AND MENUS.

10.2

KEY PRESS OPERATION & PROGRAMMING MENU EXPLANATION GUIDE



10.3 MASTER CODE SETTINGS

SETTING	STEPS	RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
HOW TO CHANGE MASTER CODE	ENTER PROGRAMMING MODE USING DEFAULT MASTER CODE	ON	-		1 BEEP
	PRESS <input type="button" value="0"/>	-	-	ON	1 BEEP
	ENTER <input type="text" value="... .. (NEW 6 DIGIT CODE)"/>	ON	-	ON	6 BEEPS
	PRESS <input type="button" value="#"/>	-	-	ON	1 BEEP
	RE- ENTER <input type="text" value="(NEW 6 DIGIT CODE)"/>	ON	-	ON	6 BEEPS
	PRESS <input type="button" value="#"/>	ON	SHORT FLASH		1 BEEP
TO EXIT PROGRAMMING MODE	PRESS <input type="button" value="*"/>	FLASHING	-	-	1 BEEP

PLEASE NOTE:

If a Card user has already been enrolled , the keypad will not allow you to duplicate by enrolling it, again. You will get an error tone. You can however enrol the same pin number for both Zones, but this only operates relay 1

10.4

SETTING OPERATIONAL MODES

SETTING	STEPS
SETTING OPERATIONAL MODE	ENTER PROGRAMMING MODE USING MASTER CODE
CARD OR PIN MODE (DEFAULT SETTING)	PRESS <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="#"/> FOR RELAY 1 OR PRESS <input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="2"/> <input type="text" value="#"/> FOR RELAY 2
CARD AND PIN MODE	PRESS <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="#"/> FOR RELAY 1 OR PRESS <input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="1"/> <input type="text" value="#"/> FOR RELAY 2
CARD ONLY	PRESS <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="#"/> FOR RELAY 1 OR PRESS <input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="#"/> FOR RELAY 2
TO EXIT PROGRAMMING MODE	PRESS <input type="text" value="*"/>

RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
ON	-		1 BEEP / KEY
ON AFTER #	SHORT FLASH AFTER #	ON AFTER AFTER 3 - 1	1 BEEP / KEY
ON AFTER #	SHORT FLASH AFTER #	ON AFTER AFTER 3 - 1	1 BEEP / KEY
ON AFTER #	SHORT FLASH AFTER #	ON AFTER AFTER 3 - 1	1 BEEP / KEY
ON AFTER #	SHORT FLASH AFTER #	ON AFTER AFTER 3 - 1	1 BEEP / KEY
ON AFTER #	SHORT FLASH AFTER #	ON AFTER AFTER 3 - 1	1 BEEP / KEY
ON AFTER #	SHORT FLASH AFTER #	ON AFTER AFTER 3 - 1	1 BEEP / KEY
ON AFTER #	SHORT FLASH AFTER #	ON AFTER AFTER 3 - 1	1 BEEP / KEY
FLASHING	-	-	1 BEEP

10.5

ADDING AND DELETING PIN NUMBERS

SETTING	STEPS
	ENTER PROGRAMMING MODE USING MASTER CODE
ADDING A PIN NUMBER - TO RELAY 1	<input type="text" value="1"/> <input type="text" value="1"/> FOR RELAY 1
USER ID = 4 DIGITS 1-2000 FOR RELAY 1	ENTER USER ID (1 - 2000) & <input type="text" value="#"/>
PIN= ANY 4-8 DIGITS BETWEEN 0000-99999999 CANNOT USE PIN 1234 - THIS IS RESERVED	ENTER PIN NUMBER & <input type="text" value="#"/>
	PRESS <input type="text" value="*"/>
	PRESS <input type="text" value="*"/> AGAIN TO EXIT

RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
ON	SHORT FLASH		1 BEEP
-	-	ON	1 BEEP / KEY
-	-	ON	1 BEEP / KEY
-	SHORT FLASH	ON	1 BEEP / KEY
ON	-	-	1 BEEP / KEY
FLASHING	-	-	1 BEEP / KEY

SETTING	STEPS
	ENTER PROGRAMMING MODE USING MASTER CODE
ADDING A PIN NUMBER - TO RELAY 2	<input type="text" value="1"/> <input type="text" value="2"/> FOR RELAY 2
USER ID = 4 DIGITS 2001 - 2100 FOR RELAY 2	ENTER USER ID (2001-2100) & <input type="text" value="#"/>
PIN= ANY 4-8 DIGITS BETWEEN 0000-99999999 CANNOT USE PIN 1234 - THIS IS RESERVED	ENTER PIN NUMBER & <input type="text" value="#"/>
	PRESS <input type="text" value="*"/>
	PRESS <input type="text" value="*"/> AGAIN TO EXIT

RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
ON	SHORT FLASH		1 BEEP
-	-	ON	1 BEEP / KEY
-	-	ON	1 BEEP / KEY
-	SHORT FLASH	ON	1 BEEP / KEY
ON	-	-	1 BEEP / KEY
FLASHING	-	-	1 BEEP / KEY

PLEASE NOTE:
 USERS CAN BE ADDED CONTINUOUSLY WITHOUT HAVING TO EXIT THE PROGRAMMING MODE
 E.G. Etc, Etc...

SETTING	STEPS
TO DELETE A PIN NUMBER	ENTER PROGRAMMING MODE USING MASTER CODE
	2 0 USER ID LOCATION #
	PRESS *
	PRESS * AGAIN TO EXIT

RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
ON	SHORT FLASH		1 BEEP
-	SHORT FLASH	ON	1 BEEP / KEY
ON	-	-	1 BEEP / KEY
FLASHING	-	-	1 BEEP / KEY

SETTING	STEPS
TO CHANGE AN EXISTING PIN NUMBER	OUT OF PROGRAMMING MODE
PLEASE NOTE: THESE STEPS ARE DONE OUTSIDE OF THE PROGRAMMING MODE	PRESS * FOLLOWED BY:
	USER ID LOCATION #
	OLD PIN NUMBER #
	NEW PIN NUMBER #
	NEW PIN NUMBER #

RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
ON	-	-	1 BEEP / KEY
ON	-	-	1 BEEP / KEY
FLASHING	-	-	1 BEEP / KEY
FLASHING	-	-	1 BEEP / KEY
FLASHING	SHORT FLASH	-	1 BEEP / KEY

10.6 ADDING AND DELETING CARD USERS - 4 METHODS

METHOD 1 - MANAGER CARDS

SETTING	STEPS
ADDING CARDS VIA MANAGER CARD	PRESENT MANAGER ADD CARD TO START
VALID FOR RELAY ONE ONLY !!!	PRESENT USER CARD / S
	PRESENT MANAGER ADD CARD TO FINISH

RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
		ON	1 BEEP
-	SHORT FLASH	ON	1 BEEP / KEY
FLASHING	-		1 BEEP / KEY

DELETING CARDS VIA MANAGER CARD

	PRESENT MANAGER DELETE CARD TO START
	PRESENT USER CARD / S TO BE DELETED
	PRESENT MANAGER DELETE CARD TO FINISH

		ON	1 BEEP
-	SHORT FLASH	ON	1 BEEP / KEY
FLASHING	-		1 BEEP / KEY

METHOD 2 - AUTO ID

SETTING	STEPS
ADDING CARDS VIA AUTO ID GENERATOR	ENTER PROGRAMMING MODE USING MASTER CODE
ADVISABLE TO MAKE A NOTE OF THE CARD NOS.	1 1 FOR RELAY 1
	1 2 FOR RELAY 2
	PRESENT USER CARD / S #
	PRESS * TO EXIT

RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
ON	SHORT FLASH		1 BEEP
-	-	ON	1 BEEP / KEY
-	-	ON	1 BEEP / KEY
ON	SHORT FLASH		
FLASHING			

CARDS MAY BE ADDED CONTINUOUSLY WITHOUT HAVING TO EXIT THE PROGRAMMING MODE.

AS A CARD IS ADDED, IT IS AUTOMATICALLY ALLOCATED AN ID.

CLOS # PROGRAMMING

DELETING CARDS VIA CARD NUMBER	ENTER PROGRAMMING MODE USING MASTER CODE
	2 0 CARD NUMBER
	# TO CONFIRM
	PRESS * TWICE TO EXIT

ON	SHORT FLASH		1 BEEP
		ON	1 BEEP / KEY
	SHORT FLASH	ON	1 BEEP / KEY
FLASHING			1 BEEP / KEY

USERS MAY BE DELETED CONTINUOUSLY WITHOUT EXITING THE PROGRAMMING MODE

METHOD 3 - MANUAL ID ALLOCATION

SETTING	STEPS	RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
ADDING CARDS VIA MANUAL ID INPUT	ENTER PROGRAMMING MODE USING MASTER CODE	ON	SHORT FLASH		1 BEEP
	1 1 USER ID (1-2000) # FOR RLY 1	-	-	ON	1 BEEP / KEY
	1 2 USER ID (2001-2100) # FOR RLY 2	-	-	ON	1 BEEP / KEY
	READ CARD #	-	SHORT FLASH	ON	1 BEEP / KEY
	# TO CONFIRM	ON	-	-	1 BEEP / KEY
	PRESS * TO EXIT	FLASHING	-	-	-

DELETING CARDS VIA USER ID	ENTER PROGRAMMING MODE USING MASTER CODE	ON	SHORT FLASH		1 BEEP
E.G.: IF A CARD IS LOST OR STOLEN	2 0 ENTER USER ID NO.		SHORT FLASH	ON	1 BEEP / KEY
	# TO CONFIRM	ON			1 BEEP / KEY
	PRESS * TO EXIT	FLASHING	-	-	-

METHOD 4 - BLOCK ENROLMENT

SETTING	STEPS	RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
ADDING CARDS IN BATCHES	ENTER PROGRAMMING MODE USING MASTER CODE	ON	SHORT FLASH		1 BEEP
FOR USE ON RELAY 1 ONLY	1 0 USER ID (1-2000) #	-	-	ON	1 BEEP / KEY
	NUMBER OF FIRST CARD # SEQUENCE	-	-	ON	1 BEEP / KEY
	CARD QUANTITY (BETWEEN 1-2000)	-	SHORT FLASH	ON	1 BEEP / KEY
	# TO CONFIRM	ON	-	-	1 BEEP / KEY
	PRESS * TO EXIT	FLASHING	-	-	-

DELETING CARDS VIA EXISTING CARD	ENTER PROGRAMMING MODE USING MASTER CODE	ON	SHORT FLASH		1 BEEP
NEED CARD OR SHADOW CARD PRESENT	2 0 READ CARD NO.		SHORT FLASH	ON	1 BEEP / KEY
	# TO CONFIRM	ON	-	-	1 BEEP / KEY
	PRESS * TO EXIT	FLASHING	-	-	-

10.7 TO DELETE ALL USERS

SETTING	STEPS	RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
DELETING ALL USERS	ENTER PROGRAMMING MODE USING MASTER CODE	ON	SHORT FLASH		1 BEEP
DELETE ALL USERS	2 0 0000 #	-	SHORT FLASH	ON	1 BEEP / KEY
DELETE ALL RLY 1 USERS	2 1 0000 #	-	SHORT FLASH	ON	1 BEEP / KEY
DELETE ALL RLY 2 USERS	2 2 0000 #	-	SHORT FLASH	ON	1 BEEP / KEY
	# TO CONFIRM	ON	-	-	1 BEEP / KEY

10.8 ALLOCATING A PIN NUMBER TO A CARD USER (FOR CARD AND PIN USE)

ALLOCATING PIN NUMBER TO CARD

SETTING	STEPS										
	ENTER PROGRAMMING MODE USING MASTER CODE										
SET CARD AND PIN MODE AS PER SEC (10.4)	<table border="1"> <tr> <td>3</td> <td>1</td> <td>1</td> <td>#</td> <td>FOR RLY 1</td> </tr> <tr> <td>3</td> <td>2</td> <td>1</td> <td>#</td> <td>FOR RLY 2</td> </tr> </table>	3	1	1	#	FOR RLY 1	3	2	1	#	FOR RLY 2
3	1	1	#	FOR RLY 1							
3	2	1	#	FOR RLY 2							
ADD A CARD AS FOR A CARD USER (10.6)	PRESS * TO EXIT PROGRAMMING										
THEN ALLOCATE CARD PIN AS FOLLOWS	* READ CARD 1234 #										
PIN IS ANY 4-8 DIGITS LONG	PIN #										
REPEAT	PIN #										

RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
ON	SHORT FLASH		1 BEEP
-	-	ON	1 BEEP / KEY
-	-	ON	1 BEEP / KEY
-	SHORT FLASH	ON	1 BEEP / KEY
ON	-	-	1 BEEP / KEY
ON	-	-	-
	SHORT FLASH	-	-
ON	-	-	-

10.9 CHANGING A PIN NUMBER IN CARD AND PIN MODE

CHANGING A CARD'S PIN NUMBER

SETTING	STEPS
METHOD 1 - VIA CARD	OUTSIDE PROGRAMMING MODE
	* READ CARD OLD PIN #
	NEW PIN # NEW PIN #
METHOD 2 - VIA USER ID	OUTSIDE PROGRAMMING MODE
	* USER ID NO. # OLD PIN #
	NEW PIN # NEW PIN #

RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
-	-	-	-
ON	-	-	1 BEEP / KEY
ON	-	-	HIGH PITCH BEEP
-	-	-	-
ON	-	-	1 BEEP / KEY
	SHORT FLASH	-	1 BEEP / KEY
ON	-	-	-

NOTE: TO DELETE A CARD AND PIN USER, JUST DELETE THE CARD AS PER

SECTION: 10.6 METHODS 1,2,3 OR 4

11. Door Operation - (Gaining Access)

FOR PIN USER	ENTER <input type="text" value="PIN NO."/> ALLOWED BY <input type="text" value="#"/>
FOR CARD USER	JUST READ THE CARD
FOR CARD AND PIN USER	READ CARD, FOLLOWED BY PIN AND <input type="text" value="#"/>

11.1 Relay Settings (Pulse Mode / Toggle Mode)

SETTING PULSE MODE (DEFAULT)		RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
SETTING	STEPS	ON	SHORT FLASH		1 BEEP / KEY
SET RELAY TIMINGS	<input type="text" value="4"/> <input type="text" value="1"/> FOR RELAY 1			ON	1 BEEP / KEY
	<input type="text" value="4"/> <input type="text" value="2"/> FOR RELAY 2			ON	1 BEEP / KEY
	<input type="text" value="1-99"/> (RELAY TIME IS 1~99 SEC.)				1 BEEP / KEY
	<input type="text" value="#"/> TO CONFIRM	ON	SHORT FLASH	-	1 BEEP / KEY
	PRESS <input type="text" value="*"/> TO EXIT	FLASHING	-	-	-

11.2 Relay Settings (Toggle Mode)

SETTING TOGGLE MODE		RED LED STATUS	GREEN LED STATUS	AMBER LED STATUS	BUZZER STATUS
SETTING	STEPS	ON	SHORT FLASH		1 BEEP / KEY
SET RELAY TIMINGS	<input type="text" value="4"/> <input type="text" value="1"/> <input type="text" value="0"/> FOR RELAY 1			ON	1 BEEP / KEY
	<input type="text" value="4"/> <input type="text" value="2"/> <input type="text" value="0"/> FOR RELAY 2			ON	1 BEEP / KEY
	<input type="text" value="#"/> TO CONFIRM	ON	SHORT FLASH	-	1 BEEP / KEY
	PRESS <input type="text" value="*"/> TO EXIT	FLASHING	-	-	-

12. DOOR SENSORS, ALARMS, SOUND & LED SETTINGS

Door Open Detection

Door Open Too Long (DOTL) warning.

Used with an optional magnetic contact or built-in magnetic contact in the lock.

If the door is opened normally, but not closed after 1 minute, the inside buzzer will beep automatically as a reminder to close the door and continues for 1 minute before switching off automatically.

Door Forced Open Warning

Used with an optional magnetic contact or built-in magnetic contact in the lock.

If the door is opened by force, or if the door is opened after 120 seconds of the electro-mechanical lock not closing properly, the inside buzzer and alarm output will both operate.

The Alarm Output time is adjustable between 0~3 minutes, with the default being 1 minute.

Please see options below for settings:

PLEASE NOTE, IMPORTANT

****THE FOLLOWING FUNCTIONS ARE ALL PERFORMED IN PROGRAMMING MODE****

12.1 DOOR SENSORS DETECTION - SETTING

TO DISABLE DOOR OPEN DETECTION (DEFAULT)	6	0	#
TO DISABLE DOOR OPEN DETECTION (DEFAULT)	6	1	#
TO EXIT PROGRAMMING	PRESS	*	TO EXIT

12.2 KEYPAD LOCKOUT & ALARM OUTPUTS - SETTING

Keypad Lockout & Alarm Output options.

If there are 10 invalid cards or 10 incorrect PIN numbers in a 10 minute period either the keypad will lockout for 10 minutes or the alarm will operate for 0~3 minutes, depending on the option selected below.

DEFAULT: NO KEYPAD LOCKOUT OR ALARM	7	0	#
KEYPAD LOCKOUT ENABLE	7	1	#
ALARM OUTPUT ENABLE	7	2	#
TO EXIT PROGRAMMING	PRESS	*	TO EXIT

12.3 LIGHT & SOUND (LED) - SETTING

KEYPAD BACKLIGHT SETTINGS	8	1	0	#	DISABLE
	8	1	1	#	ENABLE
TO EXIT PROGRAMMING	PRESS	*	TO EXIT		

12.4 LED'S - SETTING

LED SETTINGS	8	2	0	#	DISABLE RED LED
	8	2	1	#	ENABLE RED LED (DEFAULT)

TO EXIT PROGRAMMING	PRESS	*	TO EXIT
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12. 5 KEYPAD TONE - SETTING

Keypad Tone:
 The keypad tone can be set On or Off.
 When on, the device will BEEP when a Key is pressed and when off, the device will be silent.

KEYPAD TONE SETTING	8	3	0	#	DISABLE TONE
	8	3	1	#	ENABLE TONE (DEFAULT)
TO EXIT PROGRAMMING	PRESS	*	TO EXIT		

12. 6 CONVERTING RELAY 2 TO DOORBELL - SETTING

Converting Zone 2 to Door Bell
 (When there is no need to operate a second door, Zone 2 can be set to operate a Doorbell.
 The Doorbell wires are connected to COM2 and NO2.
 Press #, the keypad will send the signal to the doorbell.

NORMAL SETTING (RELAY 2 NORMAL USE)	8	4	0	#	DEFAULT
	8	4	1	#	DOORBELL ENABLE
TO EXIT PROGRAMMING	PRESS	*	TO EXIT		

12. 7 ALARM OUTPUT TIME - SETTING

SETTING ALARM OUTPUT TIME (0 ~ 3)MINS	5	0~3 MINS	#	DEFAULT IS 1 MINUTE
TO EXIT PROGRAMMING	PRESS	*	TO EXIT	
TO RE-SET THE ALARM				
TO RE-SET DOOR FORCED OPEN ALARM	READ A VALID CARD	OR	MASTER CODE	#
TO RE-SET DOOR OPEN TOO LONG ALARM	CLOSE THE DOOR OR			
	READ A VALID CARD	OR	MASTER CODE	#

13.0 DURESS - SETTING (AGAIN MUST BE IN PROGRAMMING MODE)

There are 10 groups for Duress PIN / card available.

When inputing Duress PIN/card, the door will open and at the same time, the output alarm will operate.

Note:

- ① User ID number must be any 4 digits between 2101 ~ 2110
- ② Duress PIN/card must be unique and should be distinguished from the common PIN/card.
(If the Duress PIN/card is the same as a common PIN/card, it will become invalid in Duress, and operate as a common user function instead)

TO ADD A DURESS PIN USER	1	3	USER ID NO.	#	PIN	#
ID NUMBER IS ANY NUMBER BETWEEN (2101~2110)						
TO ADD A DURESS CARD USER	1	3	USER ID NO.	#	CARD	#
ID NUMBER IS ANY NUMBER BETWEEN (2101~2110)						
TO DELETE A DURESS PIN/CARD USER	2	0	USER ID NO.	#		
TO DELETE ALL USERS (USE WITH CAUTION)	2	3	0 0 0 0	#		
TO EXIT PROGRAMMING	PRESS		*	TO EXIT		

14.0 WIEGAND MODE - SETTING

UKP-EM Supports Wiegand 26 ~ 37 Bit Input and Output.
The Unit May Be Used As just as an Output reader or a Controller.

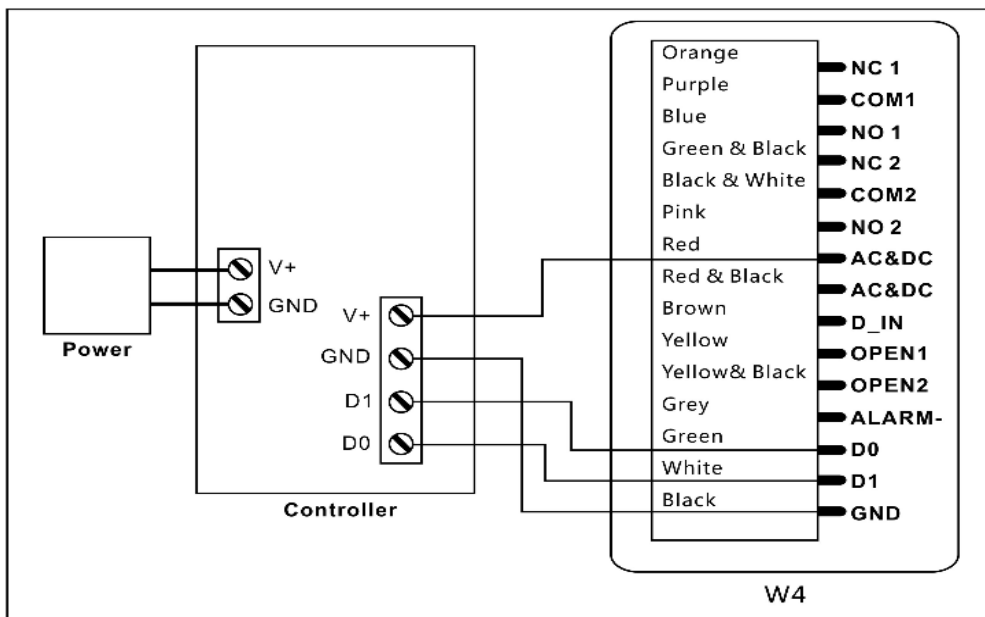
TO ADD A DURESS PIN USER	1	26 ~ 37	#
FACTORY DEFAULT IS WIEGAND 26 BIT			

15.0 INTERCONNECTING TWO DEVICES

15.1 OPERATING AS A WIEGAND OUTPUT READER

In This Mode, The UKP-EM Supports Wiegand 26 ~ 37 Bit Output.
Therefore, D1 & D0 Wiegand Data Lines Can be Connected to Any Control Panel That Supports Wiegand 26 or 37.

IT'S IMPORTANT THAT IN THIS CASE THE KEYPAD SHARES THE 3RD PARTY CONTROLLER'S PSU GROUND
WIEGAND WILL NOT FUNCTION IF YOU DO NOT HAVE A COMMON GND BETWEEN KEYPAD AND CONTROLLER



TRANSMISSION FORMATS

- ◆ 1: Keypad Transmission
The Reader will transmit the PIN data when it receives the last key (#) press after PIN code.

Format: PIN Code (any 4~8 digits between 0000 ~ 99999999)
Example: PIN code: 111111
Press 111111 #, then the output format will be: 0000111111
(Note: If an invalid PIN (any 4~8 digits) is entered, the data is still transmitted.)
- ◆ 2: Proximity Card Transmission
The Reader will transmit the card data when it reads the Card.

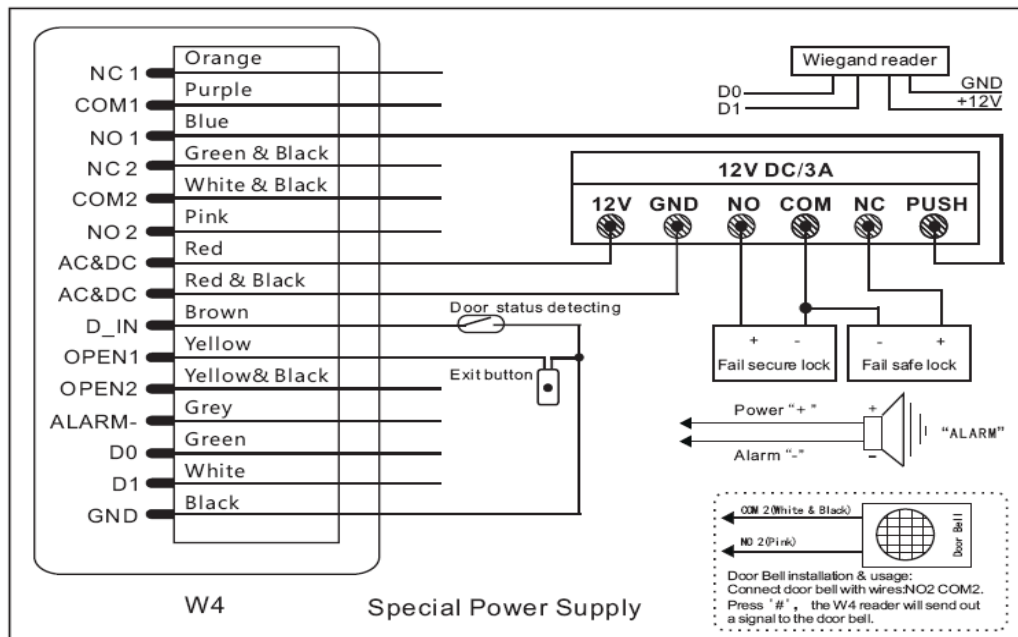
Format: Card Number
(Note: It doesn't matter if the card is valid or invalid, the data is still transmitted)

15.2 UKP-EM OPERATING AS A CONTROLLER

In this mode the UKP-EM supports a Wiegand 26-37 bit input so an external Wiegand device with a 26-37 bit output can be connected to the Wiegand input terminals on the UKP-EM.

Either an ID card reader (125 KHz) or an IC card reader (13.56MHz) can be connected to the UKP-EM.

Cards are required to be added at the external reader, except where an external ID reader is used, in this case, cards can be added at either reader or controller. See figure.



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