Keypad Programming Instructions
KP1000, KPX1000 & KPX2000

Mode LED
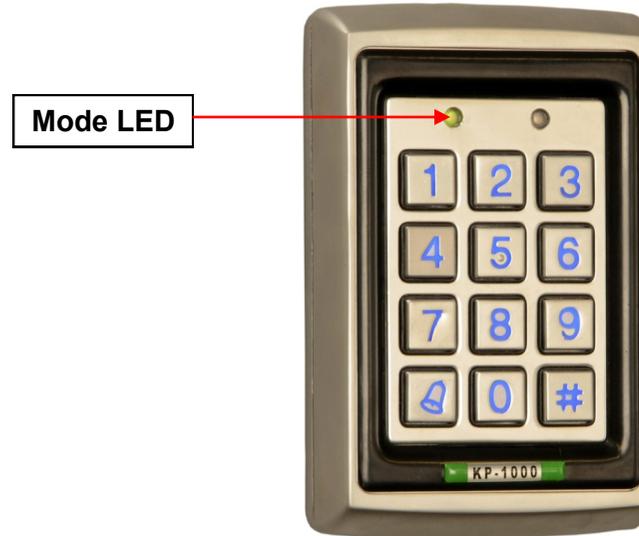
Key Features
1. Full Range—KP1000, KPX1000 & KPX2000
    2. Keypad for Code Entry
    3. Backlit Keys—Selectable
    4. 500 User Codes
    5. Internal & External Use
    6. Metal Case Construction
    7. Individually Programmable Output
8. KPX1000 & KPX2000
    9. Built~in Proximity Reader
    10. 2 Open Door Modes (Code Only—Card Only)
11. KPX2000
    12. Weigand Terminals for Remote Reader

**SUITABLE FOR EXTERNAL USE
ONLY IF RAINSHIELD IS FITTED (EXTRA)**

CONTENTS

OPERATING INSTRUCTIONS

Keypad must be in Normal Mode

I.E. Left LED = GREEN

USER CODE

RELAY 1   Enter 4 Digit USER CODE

Right & Left LED = GREEN
- Signifies DOOR OPEN

When Right LED Goes out Lock will Close

RELAY 2   Enter 4 Digit USER CODE

Left LED = GREEN & Right LED = RED
- Signifies ACTIVATED

When Right LED Goes out Relay Deactivated

PROXIMITY TAG
(KPX1000 & KPX2000)

Touch top part of Keypad with Tag.

Right & Left LED = GREEN
- Signifies DOOR OPEN

PROGRAMMING INSTRUCTIONS
KPX1000 & KPX2000

The Keypad can enrol up to 500 Separate User Cards/Tags, each one must allocated to a user position (001-500). Please follow the procedure below in order to do so.

Secure records should be kept of the number printed on the card/tags in case it becomes misplaced and needs to be deleted and re-issued. The record should be like follows.

Example Position Code

001	=	12776309	-	John Smith
002	=	13698962	-	Bill Brown
003	=	12345678	-	Tim Jones
Ect.				

Please Note—You cannot issue a code and card in same the position.

PROXIMITY CARDS (EM TYPE)

1. How to Enrol A Proximity Card (EM Type)	Left	Right
	LED SEQUENCE	
Keypad in Normal Mode	● (green)	
Press & Hold # Until Right LED turns Red		● (red)
Enter 1234 (Program Code) - Within 5 Secs		● (green)
Press 7		● (red)
Create a 3 Digit user code position (001-500)	☼ (green)	● (red)
Present EM Card to Keypad	● (green)	● (red)
Press & Hold # Until Left LED turn Green You will hear 3 Bleeps—Keypad will go back to Normal Mode	● (green)	

2. How to Delete an EM Card—Card Present	Left	Right
	LED SEQUENCE	
Keypad in Normal Mode	● (green)	
Press & Hold # Until Right LED turns Red		● (red)
Enter 1234 (Program Code) - Within 5 Secs		● (green)
Press 8	● (red)	● (red)
Enter 000	● (red)	☼ (red)
Present EM Card (One to be Removed)	☼ (red)	☼ (red)
Enter 1234 (Program Code) to Confirm You will hear 3 Bleeps—Keypad will go back to Normal Mode	● (green)	

3. How to Delete an EM Card—Card Not Present	Left	Right
	LED SEQUENCE	
Keypad in Normal Mode	● (green)	
Press & Hold # Until Right LED turns Red		● (red)
Enter 1234 (Program Code) - Within 5 Secs		● (green)
Press 8	● (red)	● (red)
Enter 3 Digit User Code Position (One to be Removed)	☼ (red)	● (red)
Enter 1234 (Program Code) to Confirm You will hear 3 Bleeps—Keypad will go back to Normal Mode	● (green)	

INTRODUCTION

KP1000, KPX1000 & KPX2000 are a vandal resistant Access Control Keypad Unit for internal & external applications (only with Rainshield fitted– Extra). The unit accepts up to 500 users and provides entry via the use of pin codes or proximity cards (KPX1000 & KPX2000 Only).

THE KPX2000 HAS THE FACILITY TO WIRE IN AN EXTERNAL PROXIMITY CARD REMOTE READER.

TECHNICAL SPECIFICATION

POWER SUPPLY — 12VDC Regulated, Battery Back Up
IT IS ADVISABLE TO USE A POWER SUPPLY AT 1.5 TIMES THE CURRENT LOAD OF SYSTEM.

RELAY 1 LOCK STRIKE — NO/C/NC AT 5Amp
IT IS ADVISED THAT LOCKS ARE WIRED INTO THIS RELAY AS STANDARD.

RELAY 2 — AS ABOVE BUT AS RELAY 2

QUIESCENT CURRENT — Standby: 40mA Not including attached devices
Max: 130mA Not including attached devices

EXIT SWITCH — NORMALLY OPEN (NO) CONTACTS (Closed when pressed)

BELL OUTPUT — AN EXTERNAL BELL/ BUZZER CAN BE FITTED THAT REQUIRES 12VDC TO OPERATE.

Built in Proximity Reader
- Read Range — 65mm
- Odulation — ASK at 125kHz
- Compatible Cards — All 26-Bit EM Cards

Environmental Characteristics
- Operating Temperature — -31°C to 63°C (Non Condensing) Suitable for External Use—IP55

Mechanical Characteristics
- Dimensions: — 120L x 76W x 27H (mm)
- Weight: — 0.9lbs (410g)

PLEASE NOTE:-

ALL EXAMPLES IN THESE INSTRUCTIONS USE ENGINEER CODES BUT THESE SHOULD BE CHANGED ON COMPLETION OF INSTALLATION AND A RECORD KEPT.

Engineer Codes & Settings	
Engineer Program Code	1234
Open Code (Relay 1)	2580
AUX Code (Relay 2)	0852
Relay 1 & 2 Open Time	5 Secs

You can only enter the program mode when the Keypad is in NORMAL MODE
(12VDC APPLIED) —I.E Mode LED = Green

HOW TO CHANGE ENGINEER CODES		
1. How to Change Program Code	**LED SEQUENCE**	
	Left	**Right**
Keypad In Normal Mode	●	
Press & Hold # Until Right LED turns Red		●
Enter 1234 (Program Code) - within 5 Secs		●
Press 3	●	●
Enter NEW 4 DIGIT CODE	-	-
You will hear 3 Bleeps—Keypad will go back to Normal Mode	●	
2. How to Change Open Code	**LED SEQUENCE**	
	Left	**Right**
Keypad In Normal Mode	●	
Press & Hold # Until Right LED turns Red		●
Enter 1234 (Program Code) - within 5 Secs		●
Press 1	●	●
Enter NEW 4 DIGIT CODE	-	-
You will hear 3 Bleeps—Keypad will go back to Normal Mode	●	
3. How to Change Relay 1 Time Delay	**LED SEQUENCE**	
	Left	**Right**
Keypad In Normal Mode	●	
Press & Hold # Until Right LED turns Red		●
Enter 1234 (Program Code) - within 5 Secs		●
Press 6	☼	●
Enter 00 + 01-99 sec (00 denotes relay 1 next 2 digits sets time in secs)	-	-
You will hear 3 Bleeps—Keypad will go back to Normal Mode	●	

PLEASE NOTE—The Open Code & AUX Code need to be changed because for Security Reasons they will automatically disappear once programming has been actioned.

1. How to Change Backlit Key Functions **(Permanently OFF as Default)**	**LED SEQUENCE**	
	Left	**Right**
Keypad in Normal Mode	●	
Press & Hold # Until Right LED turns Red		●
Enter 1234 (Program Code) - Within 5 Secs		●
Press 628	☼	●
Enter 01 = Lights ON Permanently 02 = Lights OFF ► Any Key Pressed ► Lights ON 00 = Lights Off Permanently (Default)	☼	●
You will hear 3 Bleeps—Keypad will go back to Normal Mode	●	

INDEX (Light Sequence)	
LEFT = Mode	**RIGHT = Door**
Red Light Showing	●
Green Light Showing	●
Red Light Flashing	☼
Green Light Flashing	☼

AUXILARY OR RELAY 2

1. How to Change AUX Code	LED SEQUENCE	
	Left	Right
Keypad in Normal Mode	●	
Press & Hold # Until Right LED turns Red		●
Enter 1234 (Program Code) - Within 5 Secs		●
Press 2	●	●
Enter NEW 4 DIGIT CODE	-	-
You will hear 3 Bleeps—Keypad will go back to Normal Mode	●	

2. How to Change Aux Relay (2) - Time Delay	LED SEQUENCE	
	Left	Right
Keypad in Normal Mode	●	
Press & Hold # Until Right LED turns Red		●
Enter 1234 (Program Code) - Within 5 Secs		●
Press 6	☼	●
Enter 20 + 01—99 Secs You will hear 3 Bleeps—Keypad will go back to Normal Mode 20 Denotes Relay 2 next 2 digits sets time in seconds.	●	

3. Auxiliary Relay Code Assignment	LED SEQUENCE	
	Left	Right
Keypad in Normal Mode	●	
Press & Hold # Until Right LED turns Red		●
Enter 1234 (Program Code) - Within 5 Secs		●
Press 9	●	●
Enter 3 digit user code position you need to assign too	☼	●
Enter assignment digit to current user slot 2. Relay 2—Auxiliary Relay 3. Relay 1 & Relay 2—Lock & AUX Relay	●	●
Press & Hold # Until Left LED turn Green You will hear 3 Bleeps—Keypad will go back to Normal Mode	●	

IF CODES ARE LOST OR FORGOTTEN

1. Restore Factory Default Settings WARNING— THIS WILL ERASE THE ENTIRE MEMORY	LED SEQUENCE	
	Left	Right
Keypad in Normal Mode	●	
Press & Hold # Until Right LED turns Red		●
Enter 1234 (Program Code) - Within 5 Secs		●
Press 0	☼	☼
Enter 1234 (Program Code) You will hear 3 Bleeps—Keypad will go back to Normal Mode	●	

IF PROGRAM CODE IS LOST OR CORRUPTED

1. How to Restore a Lost Program Code	LED SEQUENCE	
	Left	Right
Remove Power from the Keypad	-	-
Press the REX Button (See wiring diagram)	-	-
Apply power to the unit with REX Button Pressed	●	●
Release the REX Button	●	
You now have 15 seconds to program a new program code.	-	-
Press & Hold # until Right LED turn Red		●
Enter 1234 (Program Code) - Within 5 Secs		●
Press 3	●	●
Enter New 4-digit Program Code You will hear 3 Bleeps—Keypad will go back to normal mode	●	

INDEX (Light Sequence)	
LEFT = Mode	**RIGHT = Door**
Red Light Showing	●
Green Light Showing	●
Red Light Flashing	☼
Green Light Flashing	☼

WIRING DIAGRAMS
KP1000, KPX1000 & KPX2000

KPX2000 ONLY

Remote Reader

White

AUX RELAY — 3A rated switched volt free contacts
- COM
- NC
- NO

- DAT1
- DAT0
- GND
- +12V
- BELL 2
- BELL 1
- AUX_IN
- REX/BL
- GND
- +12V

LOCK RELAY
- COM
- NC
- NO

Door Bell

Exit Switch

PSU
- GND
- +12V

Magnet + −

Break Glass NC C
Break Glass (if fitted)
(If Break Glass Not Fitted)
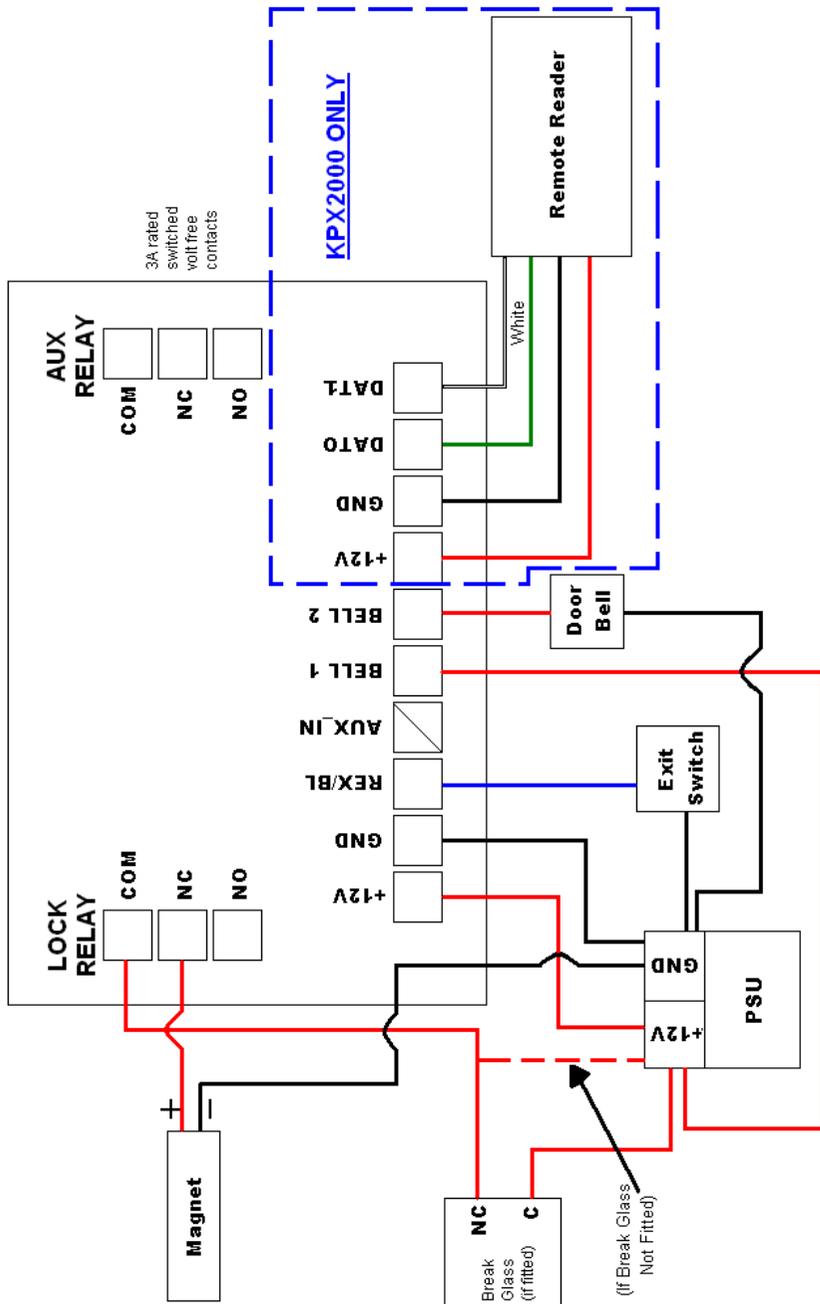
Please Note: -
All Cable connections should be made in PSU eclosure, not inside Keypad.

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PROGRAMMING INSTRUCTIONS
KP1000, KPX1000 & KPX2000

Where only one code is required to open the door, the Engineer Door Open Code is suitable.

Where multiple codes are required, the procedure below will have to be followed. You can create up to 500 Separate User Codes with each one allocated to a user code position (001-500).
A secure record should be kept like follows.

Example Position Code

001	=	4568	-	John Smith
002	=	2345	-	Bill Brown
003	=	6789	-	Tim Jones
Ect.				

Please Note—You cannot issue a code and card in same the position.

4 DIGIT USER CODES

1. How to Enrol A 4 Digit User Code	LED SEQUENCE	
	Left	Right
Keypad in Normal Mode	●	
Press & Hold # Until Right LED turns Red		●
Enter 1234 (Program Code) - Within 5 Secs		●
Press 7		●
Create a user code position—3 digits (001-500)	☼	●
Create a Pin for User	●	●
Press & Hold # Until Left LED turn Green You will hear 3 Bleeps—Keypad will go back to Normal Mode	●	

2. How to Delete a User Code	LED SEQUENCE	
	Left	Right
Keypad in Normal Mode	●	
Press & Hold # Until Right LED turns Red		●
Enter 1234 (Program Code) - Within 5 Secs		●
Press 8	●	●
Enter 3 Digit User Code Position (One to be Removed)	☼	●
Enter 1234 (Program Code) to Confirm You will hear 3 Bleeps—Keypad will go back to Normal Mode	●	

INDEX (Light Sequence)

LEFT = Mode	RIGHT = Door
Red Light Showing	●
Green Light Showing	●
Red Light Flashing	☼
Green Light Flashing	☼

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