ALEKO®

Wired Keypad / Access Control

User's Manual

LM174(P)　　　　LM175(P)

NOTE: Please read this manual thoroughly before installation. We suggest you use the wired keypad/Access Control to take place of the wireless keypad for installation in the location where frequencies interference are restricted. (Nearby airport for example or the keypad is installed far away from the control box of the gate opener (father than 10 meters).

Thank you for purchasing the Wired Keypad LM174(P) & LM175(P). We are sure that the products will be greatly satisfying as soon as you start to use it.

1. Specifications:

1.1 Technical parameters：

NO	Item	Value
1	Operating voltage	DC 12-24V ±10%
2	Operating current	< 100mA
3	Dimensions	120mm×78mm×22mm
4	Weight	110g
5	Ambient temperature	0℃—60℃
6	Relative humidity	20%—80%
7	Storage	1000users
8	Card type (alternative)	EM(ID) card(IC card for options)
9	Card reading distance	1—15CM

1.2 Factory Default：

Programming Password	123456	Common Access Password	None
Backlight	Auto (for options)	Relay Unlock output	5 Seconds
W26 port	Input (for options)	Security mode	OFF
Open mode	Card or Access Password Access Password include Private Access Password (PIN) and Common Access Password		

1.3 Light and Sound indicates:

Light: red and green

Light Description	Access control status
Red light flash every 1 sec （Slow flash）	Holding state
Red light is always ON	Programming state
Green light is always ON within Open time	Unlocking state
Green light flash every 0.5sec (Fast flash)	Pending further action

Sound：buzz

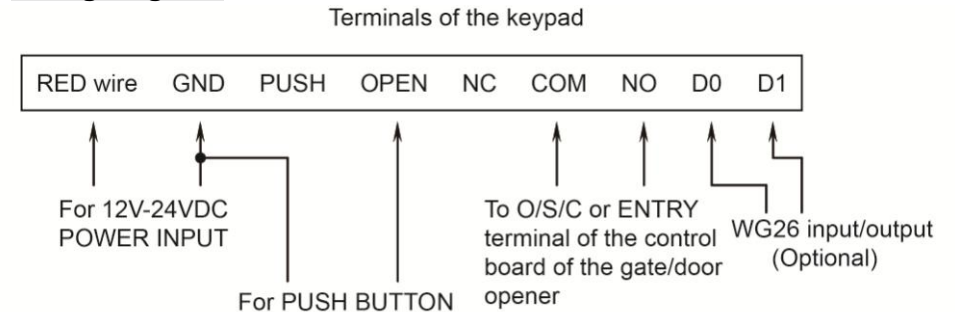| Description	Indicates
1 short buzz	Valid input
3 short buzz	Invalid input
1 long buzz	Program success
Continuous long buzz	Restoring factory programming passwords

2. Installations Guide:

JP1 terminal：

NO	Mark	Color	Function
1	Red	Red	Power+(12-24VDC positive)
2	GND	Black	Power-(12-24VDC negative)
3	PUSH	BLUE	Low level output
4	OPEN	Yellow	Door Release
5	BELL	Grey	BELL
6	BELL	White	BELL

JP2 terminal：

NO	Mark	Color	Function
1	Red	Red	Power+(12-24VDC positive)
2	GND	Black	Power-(12-24VDC negative)
3	DATA0	Green	WG DATA0
4	DATA1	White	WG DATA1
5	NC	Brown	Relay NC output
6	COM	Blue	Relay Com output
7	NO	Purple	Relay NO output

Wiring diagram:

Terminals of the keypad

RED wire　GND　PUSH　OPEN　NC　COM　NO　D0　D1

For 12V-24VDC POWER INPUT

For PUSH BUTTON

To O/S/C or ENTRY terminal of the control board of the gate/door opener

WG26 input/output (Optional)
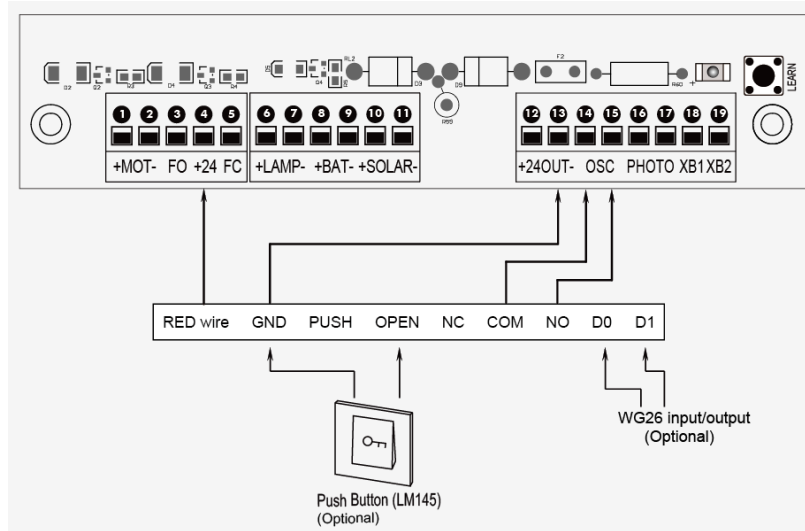
NOTE: Once an electromagnetic lock is connected, an external power should be supplied.

AS & GateGuard Series

Push Button (LM145)
(Optional)

WG26 input/output
(Optional)

RED wire GND PUSH OPEN NC COM NO D0 D1

AR900

Push Button (LM145)
(Optional)

WG26 input/output
(Optional)

RED wire GND PUSH OPEN NC COM NO D0 D1
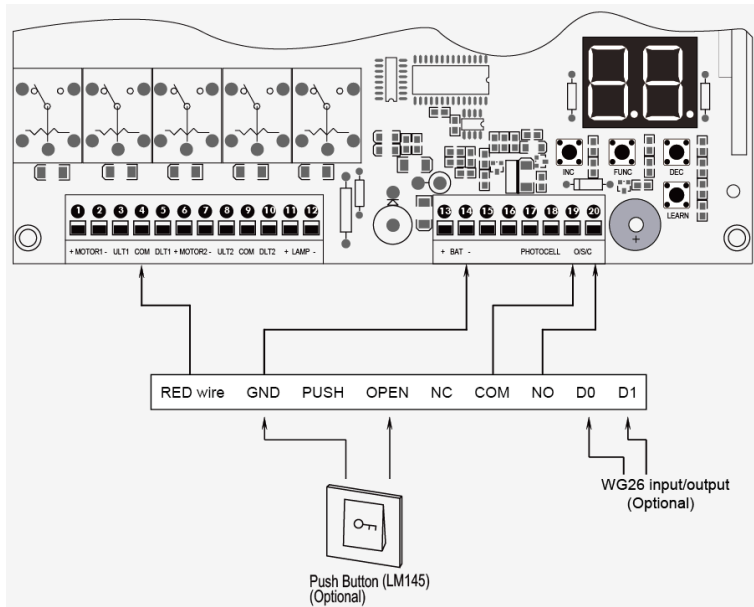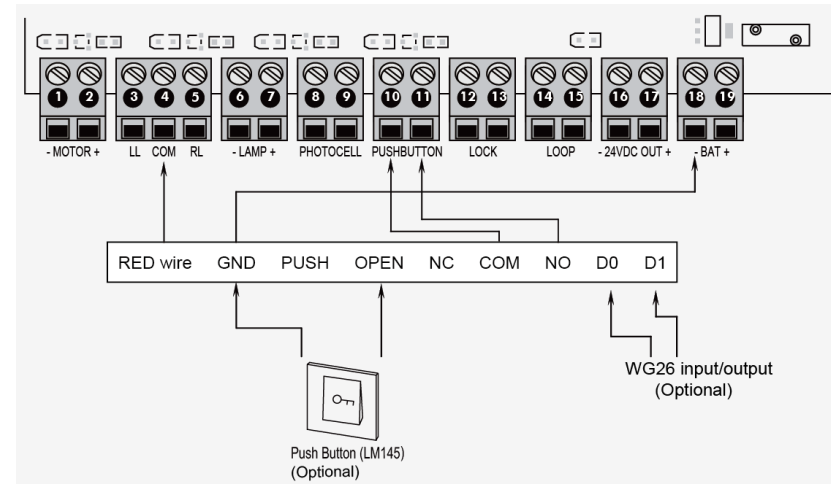
AC1300，AR1350，AC2200，AR2250

Push Button (LM145)
(Optional)

WG26 input/output
(Optional)

RED wire GND PUSH OPEN NC COM NO D0 D1
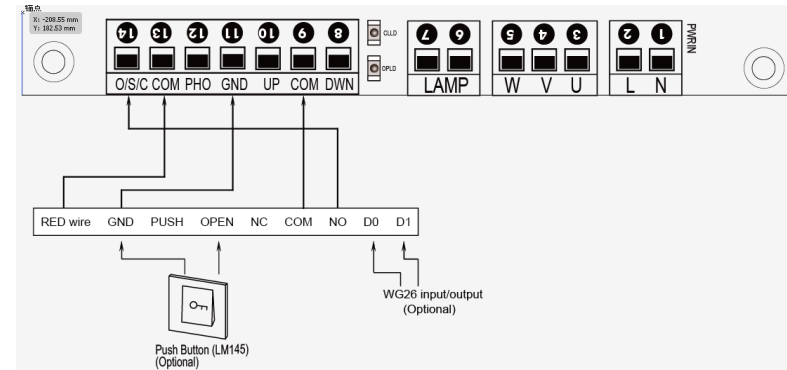
AC1500，AR1550，AC2400，AR2450，AC5700，AR5750
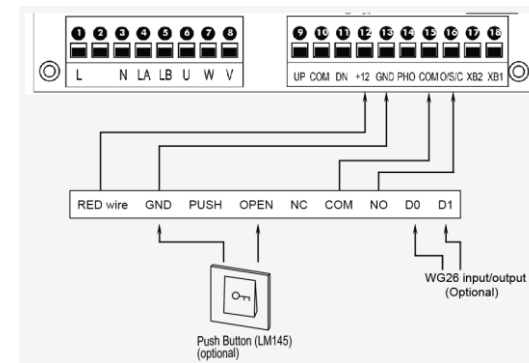
Push Button (LM145)
(Optional)

WG26 input/output
(Optional)

RED wire GND PUSH OPEN NC COM NO D0 D1

AC2700, AR2750

Push Button (LM145)
(optional)

WG26 input/output
(Optional)

RED wire GND PUSH OPEN NC COM NO D0 D1

3. Programming Guide

3.1 Detailed Programming Guide：

	Purpose	Operation	Remark
Basic Function	Change Programming Password	# Programming Password # 0 new Programming Password #	If Programming Password lost, perform 3.2 to reset to Factory Default (123456).
	Add user card	# Programming Password # 1 read card #	If add multi cards, read cards continuously
	Set Common Access Password	# Programming Password # 21 new Common Access Password #	Common Access Password is only one. Open method: Common Access Password #
	Delete all users	# Programming Password # 40 0000 #	Delete all cards and PIN except Common Access Password
	Delete user by read card	# Programming Password # 41 read card #	If delete multi cards, read cards continuously
Expand Function	Add Private Access Password(PIN)	# Programming Password # 22 PIN #	PIN can be more, Unlock door method: PIN #
	Add card by input card No.	# Programming Password # 23 input card No. #	Card No. is 10-digit or 8-digit, machine auto-identify
	Add multi-card by input card No. zone	# Programming Password # 24 input start card No. card Qty #	Card Qty is 4-digit (If one-time add twenty cards, input 0020)
	Add "card +PIN"	# Programming Password # 3 read card PIN #	If modify PIN, see 3.5
	Delete user by input User ID No.	# Programming Password # 42 input User ID No. #	About User ID No. see 3.4
	Delete user by input card No.	# Programming Password # 43 input card No. #	Card No. is 10-digit or 8-digit, machine auto-identify
	Delete user by input PIN	# Programming Password # 44 input PIN #	PIN is 3~6 digits.
	Delete all PIN users	# Programming Password # 45 1111 #	Use to PIN users (Do not include Card users and Card +PIN users)
	Change Open time	# Programming Password # 5 XX #	XX can be 2-digit, and the max. is 99. If input 00, the signal output time is 0.2 Secs.
	Set Open mode	# Programming Password # 6 XX #	XX can be 01(only card)/ 02(card or Access Password)/ 03(card+PIN)
	Reader setting **(For options)**	# Programming Password # 6 04 #	The machine can be used for reader(W26 output)
	Security function Setting	# Programming Password # 7 XX #	XX can be 01/ 02(Security function OFF/ON) and 03/04(Anti-dismantle alarm OFF/ON)
	Anti-dismantle Alarm setting**(For options)**	Remark: Security Function ON means System would be locked for 5 Minutes if continue to read illegal card or input wrong Access Password for 10 times.	
	Backlight setting**(For options)**	# Programming Password # 8 XX #	XX can be 01/02/03 (Normal ON / Normal OFF / Auto)
	Reset Factory Default	# Programming Password # 8 99 #	Except Programming Password and Manager Card
	Set Manager Card	# Programming Password # 91 read MAC read MDC #	First read card is Manager Add Card and Second read card is Manager Delete Card.
	Cancel Manager Card	# Programming Password # 92 #	MAC: Manager Add Card, MDC: Manager Delete Card

3.2 To reset to Factory Programming Password（123456）

Step1、Turn off power and connect pin 2&3 of RST(S1)。

Step2、Turn on power and buzzer gives 3 long buzz with green light flash fast。

If need to set Manager Card, now read two empty cards first one as Manager Add Card and Second one as Manager Delete Card with red light flashing and continuous short buzz .

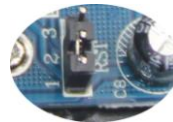Step3、Turn off power, disconnect bin2&3 and connect bin 1&2 of RST。

Step4、Turn on power again.

3.3 How to use Manager Card – MAC&MDC

To add a card user in standby mode: read MAC read new cards read MAC

To delete a card user in standby mode: read MDC read registered cards read MDC

To delete all users in standby mode: read MDC read MAC read MDC

3.4 User ID No. explain

User ID is auto-generating 4-digit number started at 0001. The number increases with adding user one by one and ignores deleting user. Common Access Password has no ID.

3.5 How to change PIN (When open mode: card+ PIN)

After reading card and input corresponding PIN to open the door, within 5 seconds, long press # until the green lights flash fast. and then input new PIN # new PIN # , new PIN changed successfully with a long buzz.