

1 2 3 4 5 6 7 8 7 0	access control) or Toggle Moc switching lights, machinese Features > Waterproof, conforms to IPE > Metal case, anti-vandal > Fashion design, all-metal ke > Two relays, 999 users > PIN length: 1~8 digits > Card type: 125KHz EM card > Multi-color LED status displa	by button I / tag ay utput, can set the volume from level 0~5 stor (LDR) for anti tamper ays ON, always OFF, r 60 seconds oor bell	Relay Adjustable F Lock Output Environment Operating T Operating H Physical Color Dimensions Unit Weight Shipping We
User Manual		-1-	
Function Description Relay operation (Pulse mode and Toggle mode) Both of the two relays on board can operate in Pulse Mode(suitable for access control) or Toggle Mode (suitable for arming/disarming alarms, switching lights, machinesetc). Every time a valid card/dag read or PIN input in Pulse Mode, the relay will operate, for the preset relay pulse time. Every time a valid card/dag read or PIN input in Toggle Mode, the relay	Enter and Exit Program mod Programming Step 1. Enter Program Mode 2. Exit Program Mode Set Master Code	Keystroke Combination * (Master Code) # (Factory default is 888888) *	2. Add Card I OR 2. Add Card I
changes state, which will not turn back until read card/tag or input PIN again.	Programming Step	Keystroke Combination	
	Enter Program Mode	* (Master Code) #	3. Exit
Anti-tamper Alarm The device uses a LDR (light dependent resistor) as an anti-tamper alarm. If the keypad is removed from the cover then the tamper alarm will operate.	2. Update Master Code	0 (New Master Code) # (Repeat New Master Code) # (Master code is any 4~8 digits, except 00000000)	Remark: If the possible to sel
	3. Exit Program Mode	*	Delete Users
PROGRAMMING ———			Programming
GENERAL PROGRAMMING INFORMATION	Add Users (User ID is any number from except 0 and 00000000)	1-999; PIN length: 1~8 digits	1. Enter Progr 2. Delete Use
> User ID number: Assign a user ID to the access card / PIN in order to track it. The user ID number is 1-999	Programming Step	Keystroke Combination	2. Delete User
IMPORTANT: User IDs do not have to be proceeded with any leading zeros. Recording of User ID is critical. Modifications to the user require	1. Enter Program Mode	* (Master Code) #	OR OR
the User ID be available. > Proximity Card: 125KHz EM card / tag . > PIN: Can be any 1-8 digits except 0 and 00000000.	Add Card Users by Reading Card OR	11 (User ID) # (Relay Selection) # (Read Card) #	2. Delete User OR 2.Delete ALL U
	Add Card Users by Card Number OR	11 (User ID) # (Relay Selection) # (Input 8~10 Digits Card Number) #	3. Exit
- 7-	2. Add PIN Users	11 (User ID) # (Relay Selection) # (PIN) #	
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INTRODUCTION ————	Specifications	
The device is a waterproof dual-entry multi-function Access Controller	User Capacity	999
with integrated keypad and card reader. It is designed and manufactured to perform in a wide range of indoor, outdoor, and harsh environments.	Operating Voltage Idle Current	12~28V AC/DC < 50mA
The device supports 999 users in multiple access configurations (Card, PIN, or Card + PIN). The built in card reader supports EM 125KHz requency cards.	Proximity Card Reader Radio Technology Read Range	EM 125KHz 2~6 cm
Date of the state	PIN Length	1~8 digits
Both of the two relays on board can operate in Pulse Mode (suitable for access control) or Toggle Mode (suitable for arming/disarming alarms, switching lights, machinesetc)	Wiring Connections	Relay Output, Exit Button, Alarm, Door Contact, Doorbell
Features	Relay Adjustable Relay Output Time Lock Output Load	Two (NO, NC, Common) 0~300 Seconds (5 seconds default 2 Amp Maximum
> Waterproof, conforms to IP66 - Metal case, anti-vandal - Fashion design, all-metal key button - Two relavs, 999 users	Environment Operating Temperature Operating Humidity	Meets IP66 -40°C ~ 60°C (-40°F~ 140°F) 0%RH~98%RH
PIN length: 1~8 digits Card type: 125KHz EM card / tag	Physical Color	Zinc-Alloy Silver
▶ Multi-color LED status display ▶ Integrated alarm & buzzer output, can set the volume from level 0~5	Dimensions	L114.5 x W75 x D22mm (Wide) L134 x W55.5 x D21mm (Slim)
Pulse mode, Toggle mode Built in light dependent resistor (LDR) for anti tamper Backlit keypad, can set always ON, always OFF,	Unit Weight Shipping Weight	360g (Wide) / 340g (Slim) 440g (Wide) / 420g (Slim)
or turn off automatically after 60 seconds Relay 2 supports external door bell Low temperature resistance(-40°C)		

> Thread the cable throu > Attach the unit to the b	, ,
((·)) Wide	312 32 32 32 32 32 32 32
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> Drill 2 holes (A, C) on the wall for the screws and one hole for the cable

> Knock the supplied rubber bungs to the screw holes (A, C)

> Fix the back cover firmly on the wall with 4 flat head screws

INSTALLATION —

> Remove the back cover from the unit

Wall Anchors

Wire Color Function Red AC&DC 12-28V AC/DC Regulated Power Input Black AC&DC 12-28V AC/DC Regulated Power Input Green NC1 Normally Closed Relay 1 Output White COM1 Common Connection for Relay 1 Output Blue NO1 Normally Open Relay 1 Output Yellow OPEN1 Request to Exit input 1 (REX) Grey GND Negative Pole Black&Green NC2 Normally Closed Relay 2 Output Black&White COM2 Common Connection for Relay 2 Output Black&Blue NO2 Normally Open Relay 2 Output Orange OPEN2 Request to Exit Input 2 (REX) Advanced Input and Output Features Purple Alarm - Alarm Negative Brown D_IN Door Status Detecting

Sound and Light Indication Operation Status LED Power supply connection Blue ON 3 sec ON 3 sec Blue blinking 0.3 sec. ON Standby / 2 sec. OFF frequency Waiting for Master code after pressing * Yellow blinking 0.5 sec frequency* Timeout = 60 sec ON 1 x 0.5 sec

in programming mode	I TEILOW CIN			=
Card correct reading in programming mode	Green ON 1 x 0.5 sec	ON 1 x 0.5 sec		
Card incorrect reading in programming mode	Red blinking 5 x 0.2 sec	Blinking 5 x 0.2 sec		
Correct step in programming mode	Green blinking 2 x 0.5 sec	Blinking 2 x 0.5 sec		
Incorrect step in programming mode	Red blinking 5 x 0.2 sec	Blinking 5 x 0.2 sec	Grey Purple	GND ALARM
Relay 1 activated	Green ON during activation time	ON 1 x 0.5 sec	Orange Yellow	OPEN2
Relay 2 activated	Blue ON during activation time	ON 1 x 0.5 sec	Brown Red Black	D_IN AC&DC AC&DC
Relays 1 + 2 activated	Green / Blue ON alternatively 1 sec. / 1 sec during activation time	ON 1 x 0.5 sec	Black & Blue Black & White Black & Green	NO2 COM2
Card correct reading and waiting the PIN code in Card + PIN mode	Blue blinking 1 sec. ON / 1 sec. OFF frequency Time out = 10 sec	-	Blue White Green	NO1 COM1 NC1
Power supply connection	Red blinking 5 x 0.2 sec	Blinking 5 x 0.2 sec		
Factory default reset	Green blinking 4 x 0.5 sec	Blinking 4 x 0.5 sec		
Alarm	Red blinking 0.2 sec frequency *	Blinking 0.2 sec frequency*	to operate	The relay 2 can use a second door. The
frequency means that the	LED is blinking ON/OFF	during the same time		COM2. Press "0 #", t ne doorbell.

Example: blinking 1 sec. frequency = 1 sec. ON / 1 sec. OFF / 1 sec. ON

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Function Description Operation Enter the Programming * (Master Code) # (Repeat New Master Code) # (master code: 4~8 digits, except 0 11 (User ID) # (Relay Selection) # (Read Card) # Relay selection: 1 = relay 1 only, 2 = relay 2 only, 12 = relays 1 & 2 simultaneously 11 (User ID) # (Relay Selection) # (PIN) # Add PIN User (PIN code: 1~8 digits, except 0 and Remarks: The relay 2 can use to operate the doorbell when no need to operate a second door. The wiring is connecting the door bell to 2 (Read Card) # Delete User NO2 and COM2. Press "0 #", the reader will send out a switching Connect the negative pole of the lock to NC is for Fail-safe lock. Exit from the programming * Connect the negative pole of the lock to NO is for Fail-secure lock. How to Release the Door

12-28V AC/DC

1		1 I	Set Relay (

t Program mod	de	2 Add Card Users Successively	12 (Start User ID) # (Relay Selection)	Set Relay Configuration	
g Step	Keystroke Combination	OR	# (Read Card Successively) #	(The relay configuration sets th on activation)	e behaviour of the output relay
gram Mode	* (Master Code) # (Factory default is 888888)	2. Add Card + PIN Users	15 (User ID) # (Relay Selection) # (PIN) # (Read Card) / (Input 8~10	Programming Step	Keystroke Combination
am Mode	*		Digits Card Number) #	Enter Program Mode	* (Master Code) #
			Relay selection: 1 = relay 1 only,	2. Pulse Mode (factory default)	
ode			2 = relay 2 only, 12 = relays 1 & 2	Relay 1	3 1 (1-300) #
g Step	Keystroke Combination		simultaneously		3 2 (1-300) # The relay time is 1-300 seconds.
gram Mode	* (Master Code) #	3. Exit	*	OR 2. Toggle Mode	(1 is 500mS.) (Default is 5 seconds)
aster Code	0 (New Master Code) #	Daniel Kile "Daniel out built		2. Toggie Wode	

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Remark: If the "Doorbell push button" mode is activated, it n
possible to select the relay 2.

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) #
2. Delete User - By card	2 (Read Card)
OR	The cards can be deleted continuous
2. Delete User - By Card number	2 (Input 8~10 Digits Card number) #
OR	
2. Delete User - By User ID	2 (User ID) #
OR	
2.Delete ALL Users	2 (0000000) #
3. Exit	*

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Pulse Mode (factory default)	
Relay 1	3 1 (1-300) #
Relay 2	3 2 (1-300) #
OR	The relay time is 1-300 seconds.
2. Toggle Mode	(1 is 500mS.) (Default is 5 seconds)
Relay 1	310#
Relay 2	320# Sets the relay to ON/OFF Toggle mode
3 Evit	.

	15 4 1 0 11 11	
If press "0 #", it can activate the	e relay 2 with doorbell output)	
Set Doorbell Push Button Mode		

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) #
Activate Doorbell Push Button Mode OR Deactivate Doorbell Push Button Mode	41#A# (A = 1~300 = output activation time in seconds.) 42#(factory default)
3. Exit	*

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) #
2. Always ON	5 1 1 # (factory default)
OR	
2. Always OFF	512#
OR	
2. Automatic OFF After 60	513#
Seconds	If the keypad backlight is OFF, it will go ON by pressing any key (this key isn't taken into consideration).
3. Exit	*

* (Master Code) #

2. Set Buzzer Volume Level 6 1 (0~5) # (factory default: 3)

Set Buzzer Volume Level

1. Enter Program Mode

			(0
ming Step	Keystroke Combination		(0 means deactivate the buzzer sound)
Program Mode	* (Master Code) #	3. Exit	*
ate Doorbell Push n Mode	41#A# (A = 1~300 = output activation time in seconds.)	Set Door Open Too Long Detection (Need use with an external magnetic contact)	
tivate Doorbell Push	4 2 # (factory default)	Programming Step	Keystroke Combination
n Mode	. I ii (lacio), acidally	1. Enter Program Mode	* (Master Code) #
	*	2. Enable Door Open Detection	
f the relay 2 is registered the "Doorbell push butt	I with users, then it is not possible on" mode	2. Disable Door Open Detection	712# (factory default)

	Keystroke Combination	Notes A=1~300=The preset door open duration in seconds before the alarm start		
	* (Master Code) #			
	511# (factory default) 512#		B=1=Built-in buzzer ON while ala B=2=Built-in buzzer OFF while al	•
60	513#		C=1=Enable external alarm output while alarming C=2=Disable external alarm output while alarming	
	If the keypad backlight is OFF, it will go ON by pressing any key (this key		3. Exit	*
	isn't taken into consideration).		Reset of the alarm: Close the door	or input a valid user.
	*		Door Formed Open Detection	

Door Forced Open Detection

B=1=Built-in buzzer ON while alarming

B=2=Built-in buzzer OFF while alarming

(Need use with an external magnetic contact)		
Programming Step	Keystroke Combination	
1. Enter Program Mode	* (Master Code) #	
Enable Door Forced Open Detection Disable Door Forced Open Detection	721#A#B#C# 722# (factory default)	
Notes A=1~300=Alarm time in seconds		

C=1=Enable external alarm output while alarming C=2=Disable external alarm output while alarming		
3. Exit	*	
Reset of the alarm: Close the door alarm time or input a valid user.	and after expiration of the progr	
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Set Strike-out Alarm
(The strike-out alarm will engage after 10 successive faile
PINs/Cards attempts within 10 minutes)

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	·
Enter Program Mode	* (Master Code) #
Set Strike-out Alarm ON Set Strike-out Alarm OFF	731#A#B#C# 732# (factory default)
Notes A=1~300=Blocking and alarm t	me in seconds
B=1=Built-in buzzer ON while alarming B=2=Built-in buzzer OFF while alarming	
b-z-built-in buzzer OFF wrille	alarming

Reset of the alarm: After expiration the programmed alarm time.

Set Tamper Alarm

Set ramper Alaim		
Programming Step	Keystroke Combination	
1. Enter Program Mode	* (Master Code) #	
Enable Tamper Alarm Disable Tamper Alarm	741#A#B#C# 742# (factory default)	
Notes A=1~300=Alarm time in seconds		
B=1=Built-in buzzer ON while alarming B=2=Built-in buzzer OFF while alarming		
C=1=Enable external alarm output while alarming C=2=Disable external alarm output while alarming		
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Reset of the alarm: Close the product and after expiration the programmed

Enter (PIN) #

Read card, then enter (PIN) #

Users Operation & Reset to Factory Default

- Open the door Card/tag: Read a valid card/tag.

PIN code: Enter a valid user PIN code #. Card/tag + PIN code: Read a valid card/tag and enter the associated user PIN code #.

- Reset to factory default

PIN User

Power OFF, press "*" and hold it during power ON until LED blinks green 4×0.5 sec. $+ 4 \times 0.5$ sec. beeps. Correct step: Green LED 4 x 0.5 sec. + 4 x 0.5 sec. beeps. Incorrect step: Red LED 10 x 0.2 sec. + 10 x 0.2 sec. beeps.