

PC-30/N EM access controller User manual

Ver.15.2 20150213

Introduction

PC-30/N is very compact size, self contained access control module including the necessary antenna, relay and VR which could be served as a standalone, contactless access controller with the abilities of Add by learning maximum 1,000 EM cards as legal cards for access with variable door releasing time adjusted by rotational volume resistor. It can set some specific card as master card to Add, Delete single card as well as delete all cards by master card programming.

Features

- 1. Small size of 40mm diameter with 30 2mm length for easy installation.
- With 1,000 big card capacity to be Added, Deleted and Cleared All by master card programming.
- 3. With inherent form A relay to offer dry contact output.
- Adjustable releasing timer by VR (rotation variable resistor) from 0.5~100 seconds.
- 5. No PC or other terminal is needed for parameters programming.
- 6. With 3 colours LED and buzzer for programming & access indications.
- 7. Water proof for flush mounting.

Application field

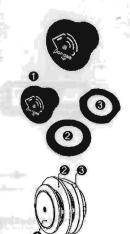
- Low cost and simple access controller for door, lift, cabinets, drawers, coffer, handle locks, intercom.
- For small area installation.
- Any access control application by EM cards.

Notice: If controller is installed on the metal wall/plate, please put some non-metal plate between them to enhance the reading distance.

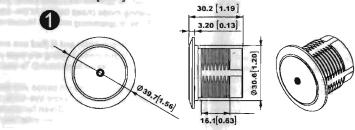
Specification

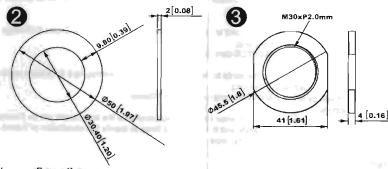
moderon	ح حمالات الانت					
RFID frequency			125KHz ASK			
Applicable	cards	a Fa	EM 4001,EM 4102 or compatible /TEMIC 5557			
Reading	Card	1.8mm	3~4 cm			
range		0.8mm	2~3 cm			
Power input			12V DC±10%			
Standby / Working current			40mA / 50mA±10% @ 12 V DC			
Material Relay contact rating			Polycarbonate			
			0.5A at 125VAC, resistive			
			0.3A at 60VDC, resistive			
			1A at 30VDC, resistive			
Max. carrying current			1A / For inductance load only 1/2 or 1/3 is allowed			
Weatherproof/dustproof			IP 54 PSOMMIN			
Dimensions(mm/inch)			Diameter 39.7/ 1.56 Length: 30.2/1.19			
Installation diameter			31mm / 1.22inch			
Operating temperature			-10°C~70°C			
Storage temperature			-20°C ~85°C			

AND INSIDE SHIP SHIP CALL

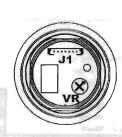


Dimension: Unit: mm[inch]









L		T.	J1	p. 1.55 art	A Acres
	A CONTRACTOR STATE OF	Pin	Color	Signal direction	Function
h.	0 5 3 E m v	1	Red	4	+12V power in
	Orange Brown Yellow Green White Black Red	2	Black		System Ground
		3	White		COM.
١,	7054204	4	Green		N.C.
l	7654321	5	Yellow		N.O.
		6	Brown		Program
		7	Orange		GND

Action 201 or 201 " Married to

Operational mode programming

 Connect the PROGRAM signal wire (pin 6 in J1) to system Ground and then read any card to be the MASTER card.

The reader will lit Green with 5 beeps and an extra long beep when MASTER card is reading.

Note: Please disconnect the Program wire from the system Ground. Otherwise, when reading any other card, it will replace the previous MASTER cards defined and serve as new MASTER card.

- 2. Disconnect the PROGRAM wire from system Ground and resume the reader to the normal access mode.
- 3. Every time when reading the MASTER card, the internal MASTER Reading Counts will be increased. According to the counts, it defined the following Programming Modes:

You may practice it firstly to acquaintance it and void damage to your data base.

a. When reading MASTER card once, it beeps and lit Green and entering into ADD card mode with

Green & Orange LEDs flashing. At this mode, reading any user card, it will be served as legal user card if it is within the card capacity.(If success 3 beep sound) To Quit the ADD Card mode, you may read the MASTER card for further twice to enter STOP waiting mode.(Keep beeps) At this stage, reading another card, except the MASTER card to STOP the programming mode to Normal access mode.

- b. When reading MASTER card twice from the normal mode, it beeps again and lit Red and entering into DELETE card mode with Red & Orange LEDs flashing. At this mode, reading any legal user card, it will be deleted from the database with Red LED flashing. (If success 4 beep sound) To stop the mode by reading MASTER card for the other 4 times.
- c. When reading MASTER card the 4th times, it beeps periodically with medium period with Green & Red lit interchangeably to signify the CLEAR ALL CARDS waiting mode. During this mode, you may read any card(except the master card) to into this mode. The reader will lit Green for around 6 seconds and then with long beep to signify all the database are cleared and then enter into Normal Access mode.
- 4. Once complete the programming modes practice, you may Add some cards as legal cards for access or delete the cards to illegal or clear all cards as illegal.

ADD cards:

During ADD card mode, reading any card to be legal card, it beeps and flashing Green & Orange again to waiting for another succeeding Adding.

To stop the mode by reading MASTER card for the other 4 times.

DELETE cards:

During DEL card mode, reading the cards to be illegal, it beeps and flashing Red & Orange again to waiting for another succeeding Deleting.

To stop the mode by reading MASTER card for the other 3 times.

CLEAR ALL cards:

During this mode, reading any card to enter into Clear ALL mode. All the legal cards will be Deleted as illegal cards within around 6 seconds and then with long beep to signify the completion of Delete All and then enter into Normal Access (Ready) mode again.

5. To practice the ACCESS function:

Legal card:

If legal card is read, the reader will beep with Green LED lit and flashing the Green LED. It will release the relay for some periods from 0.5 to 100 seconds depending on the VR adjusting thru rotation.

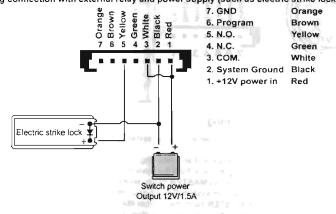
Please refer to the VR table for rough relay release time period adjusting.

lllegal card reading

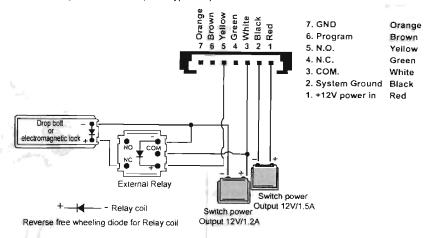
If Illegal card is read, the reader will lit RED with 3 short beeps.

Wiring Example

Wiring connection with external relay and power supply (such as electric strike lock)



 Wiring connection with external relay and power supply for heavy load locks (such as magnetic lock or drop bolt type lock)



Setting relay releasing time

	Door Release time by table:		
	VR	Door Release time	
	UO	0.5 s	
	U1	1.5 s	
	U2	10 s	
	U3	25 s	
	U4	35 s	
djust the Relay release time thru rotational VR	U5	45 s	
(0.5 second~100 seconds)	U6	60 s	
CCW CW Max.100 sec. Min.0,5 sec.	U7	75 s	
U10 U0	U8	85 s	
A &	U9	95 s	
5	U10	100 s	

Note 1. Due to VR resistance tolerance, the calibration could not be very accurate. The time period values on table are offered for the adjusting reference.

Note 2. For special requirement regarding the time period range for MOQ 200 pieces above, we may re-fix as acceptable range.

Ordering information

PC-30/N	: Round type LF 125KHz access control by reading EM cards.
PC-30/H	: Round type LF 125KHz access control by reading HID compatible cards.
PC-30/NH	: Round type LF 125KHz access control by reading EM & HID compatible cards.
Other custo	mer request specifications are welcomed.

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Specifications subject to change without notice for further modification.

W-04-PC-30N/E

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