

# **USER MANUAL**

## **ACCESS CONTROL NUMLOCK + RFID Ver 1.1 DEC 20**

## CONTAINS:

<b>SR.NO</b>	<b>DETAILS</b>	<b>PAGE NO.</b>
<b>1</b>	INTRODUCTION	
<b>2</b>	PRODUCT NAME/MODEL NO:	
<b>3</b>	PRODUCT DESCRIPTION	
<b>4</b>	FEATURES	
<b>5</b>	SPECIFICATIONS	
<b>6</b>	INSTALLATION STEPS WITH IMAGES/DIAGRAM	
<b>7</b>	WIRING / CONNECTION DETAILS	
<b>8</b>	MOUNTING DETAILS WITH IMAGES/DIAGRAM	
<b>9</b>	CALIBRATION / CONFIGURATION OF PASSWORD SET AND RESET PROCESS	

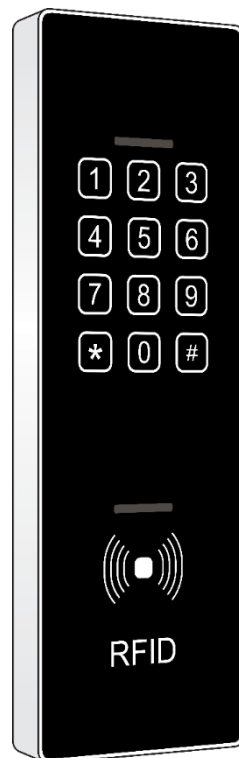


## **1. INTRODUCTION:**

As the name indicates, this system is used to provide restricted access to Landing Operating Panel (LOP) and Car Operating Panel (COP). The aim of this accessories is to provide secured access to the elevator car by providing numeric digit keypad for password access, RFID security feature for RFID identification card holder which provides greater security. The system is used where, user wish to have limited access or authorized person to use the elevator. This is an External Installation Device.

## **2. PRODUCT NAME/MODEL NO:**

**EXTERNAL ACCESS CONTROL - NUMLOCK + RFID**



### **3. PRODUCT DESCRIPTION:**

- This product provides the controlled access to the user of the lift. You can enroll the valid users by configuring their RFID CARD. With this device lift will be operated only with the valid RFID CARD. For invalid user lift buttons are un-operational and lift will not book any floor call.
- This product also provide NUMLOCK based protection. If user knows the 4-digit password, he can enter the password number and operate the lift. With wrong NUMLOCK password, lift will not book any floor call.
- This device comes as external installation and can be integrated with any Inditech COP/LOP or can be interface with other make COP/LOP using single dry contact. You need to check the specifications of the other make COP/LOP before buying this product.

### **4. FEATURES:**

- Slim Design with SS FRAME with Shiny attractive ACRYLIC FASCIA.
- High precision capacitive touch buttons.
- Supports 500+ RFID CARD.
- Numeric Keypad.
- Fast recognition
- Single dry contact
- Simple installation and configuration.
- Suitable for Inditech COP/LOP. This product is also suitable any make COP and LOP using Single dry contact.

## **5. SPECIFICATIONS:**

- Mount Type- Wall Mount
- Fascia- Black/White
- Input Supply- 24V
- NUMLOCK – Capacitive Touch
- RFID –RFID CARD sensor
- Size (W\*H\*T)-75x225x18MM
- Reliable
- Easy to use
- Elegant and Durable

## **6. INSTALLATION STEPS:**

**Note: Installation and Commissioning of the COP is to be done by Authorized, Trained technician of Elevator Company.**

Following are the steps to be taken for the installation of this unit.

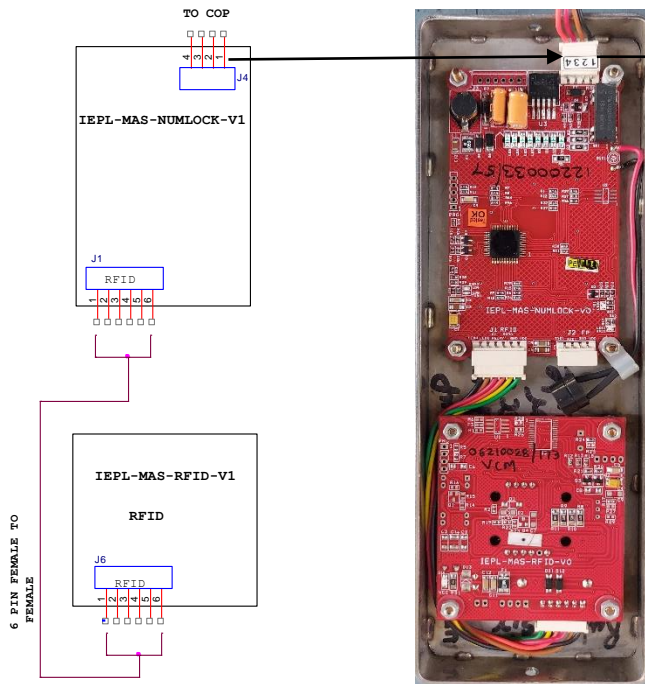
- Remove the back plate of UNIT.
- Mount the back plate of UNIT on the CAR surface or WALL as per point no.8 MOUNTING DETAILS.
- Give supply 24V, GND to J4 connector pin no. 1 & 2 and PO, NO to pin no. 3 & 4 for button function connection as per below mentioned in point no.7 WIRING / CONNECTION DETAILS.
- Do the calibration process as per point no.9 CALIBRATION CONFIGURATION SET AND RESET PROCESS.

## **7. WIRING / CONNECTION DETAILS**

- Supply voltage is 24VDC, connect it to Black wire (+24) and Brown wire to Ground. Refer fig-1.
- Connect the relay output between (Red wire) 3 and (Orange wire) 4.
- Note that this is dry contact, upon successful operation this contact become short. Normally it remains open.

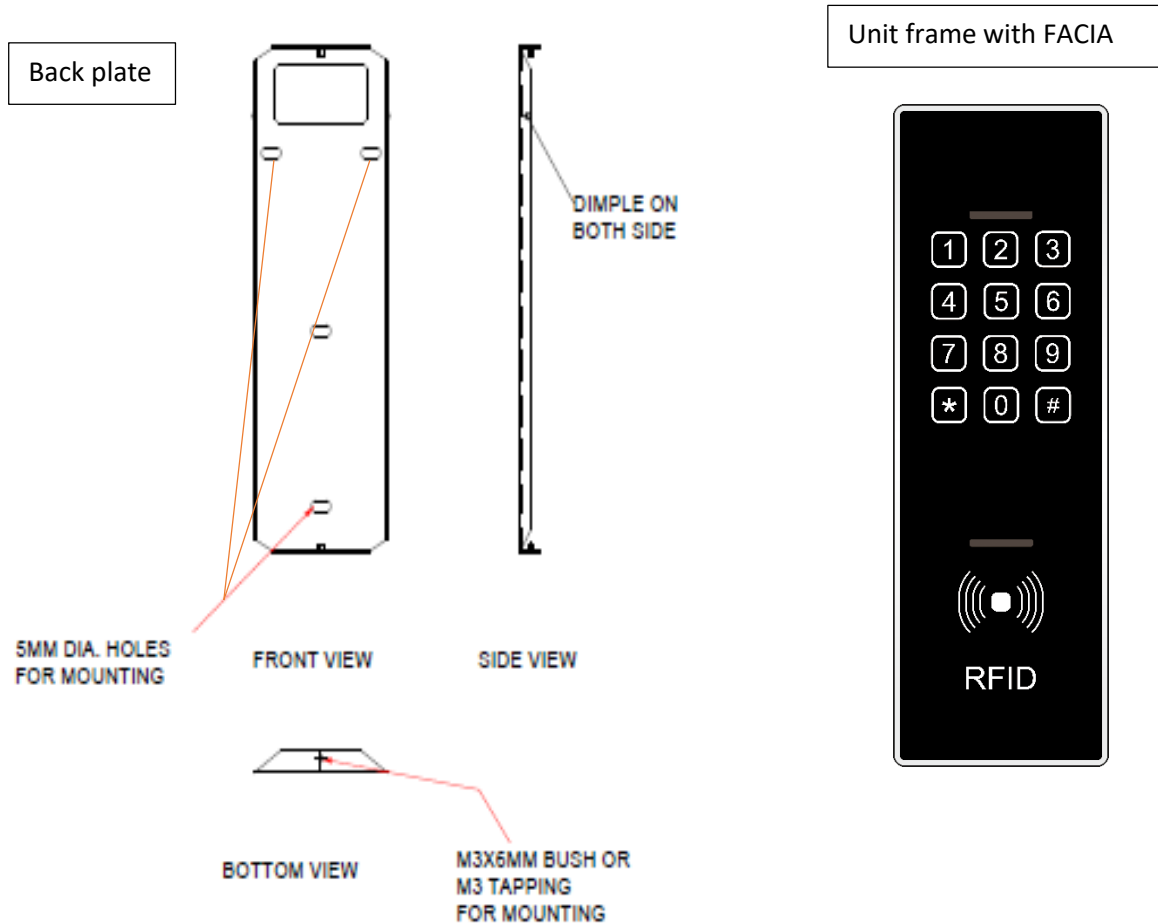
Fig-1

WIRING DIAGRAM OF EXTERNAL NUMLOCK + RFID



- 1.Black wire-24V
- 2.Brown wire- GND
- 3.Red wire- Pole
- 4.Orange wire- NO

### 8. MOUNTING DETAILS:



## **9. CALIBRATION / CONFIGURATION FOR PASSWORD SET AND RESET PROCESS**

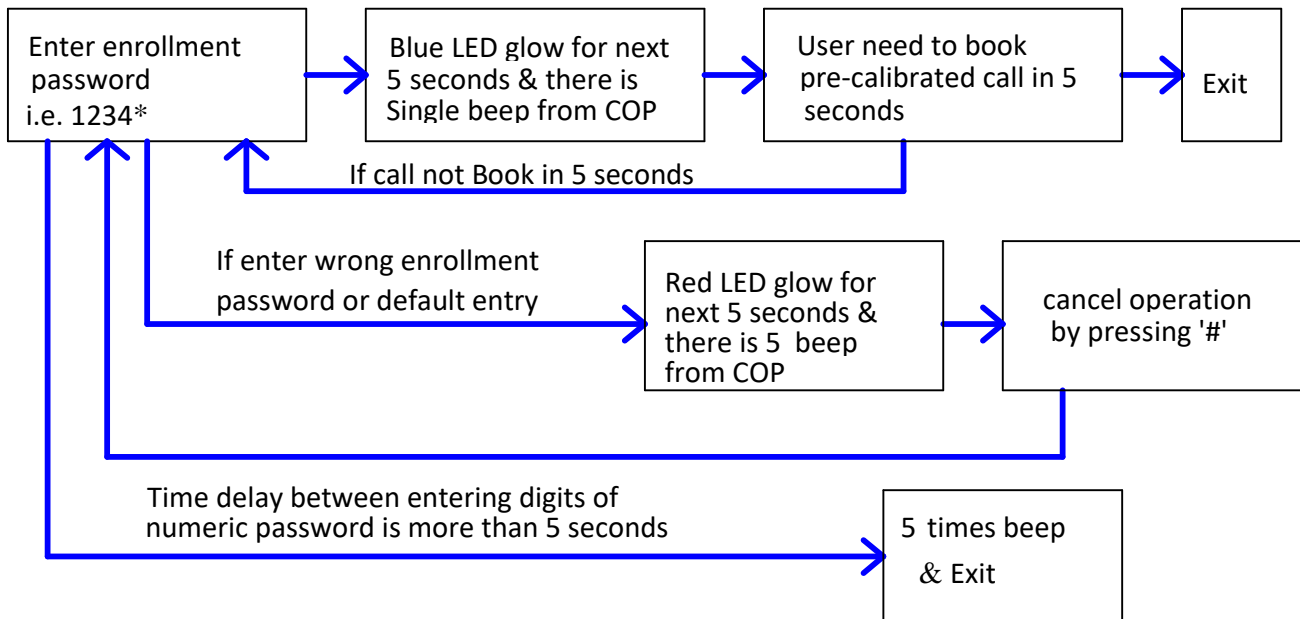
**You need to do the calibration for access:**

### **❖ CALIBRATION OF NUMLOCK ACCESS SYSTEM:**

The numeric keypad interface in the access systems is basic and important feature for restricted access. Which provide access to user for elevators car by entering correct password. The numeric access system provides user two features that is accessing the elevator car and to change the user password for accessing the elevator car.

To access the elevator using numeric keypad interface, user has to enter correct password for the same. The default password for NUMLOCK access is 1234 terminated by \*. The star key is used as enter key and start key. If the enter password is correct, then LEDs on the top of Numeric interface will glow blue and beep from COP will generated as indication of correct password. The LEDs will be kept on for next five seconds, and user is supposed to book a pre-calibrated floor call in between this time. Once LEDS goes off, user will not able to book a call for elevator. Again for the same user has to enter default password.

If user enters wrong password or wrong entry is done by the user, then the buzzer will beep five times and LEDs will glow red as indication of false operation. Also if by mistake user entered wrong entry then one can cancel the operation by pressing #. The key # will terminate every operation running on the NUMLOCK. If user presses a touch key on the numeric keypad once and does not press any key afterwards then it will wait for next five seconds for key to enter else, it beeps five times and exits the process.



**DIA: NUMLOCK ACCESS SYSTEM: FOR DEFAULT PASSWORD**

**NOTE:** Please remember, you need to remember the changed password, which would be used change the password again.

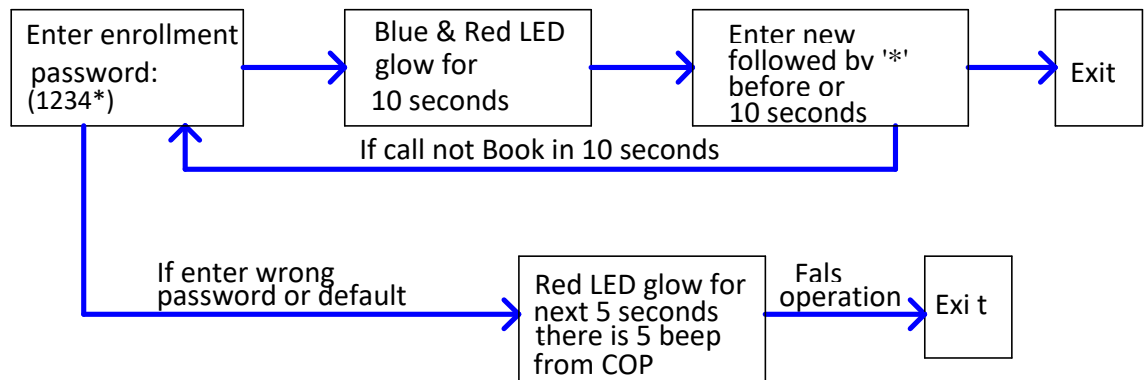
➤ **CHANGING NUMLOCK PASSWORD:**

As described previously, user can access the elevator car using default user password that is 1234 terminated by \*. As a feature user can also change this default password and can set its own desired password. For the same user have to follow few steps as below, press \* followed by existing default password that is 1234, if the password is correct then LEDs start blinking red and blue as indication of process start, here user has to enter new four-digit user password terminated by \*. if the process goes as per given steps, then the buzzer will beep twice as indication of healthy completion of the process.

Note, user must not enter new user password, as same as fingerprint password, it will result in error. If the user starts password changing process that is LED's start blinking and do not press any key afterwards, then process will continue for next 10 seconds and terminated with five times beep as an indication of false operation.

If user enter wrong password, then the LED's will glow red and buzzer will beep five times.



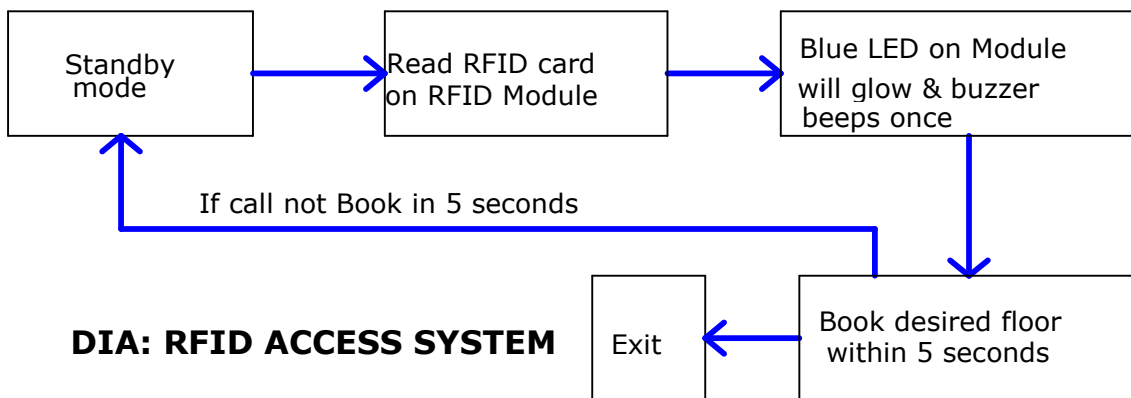


## **DIA: NUMLOCK ACCESS SYSTEM: FOR PASSWORD CHANGE**

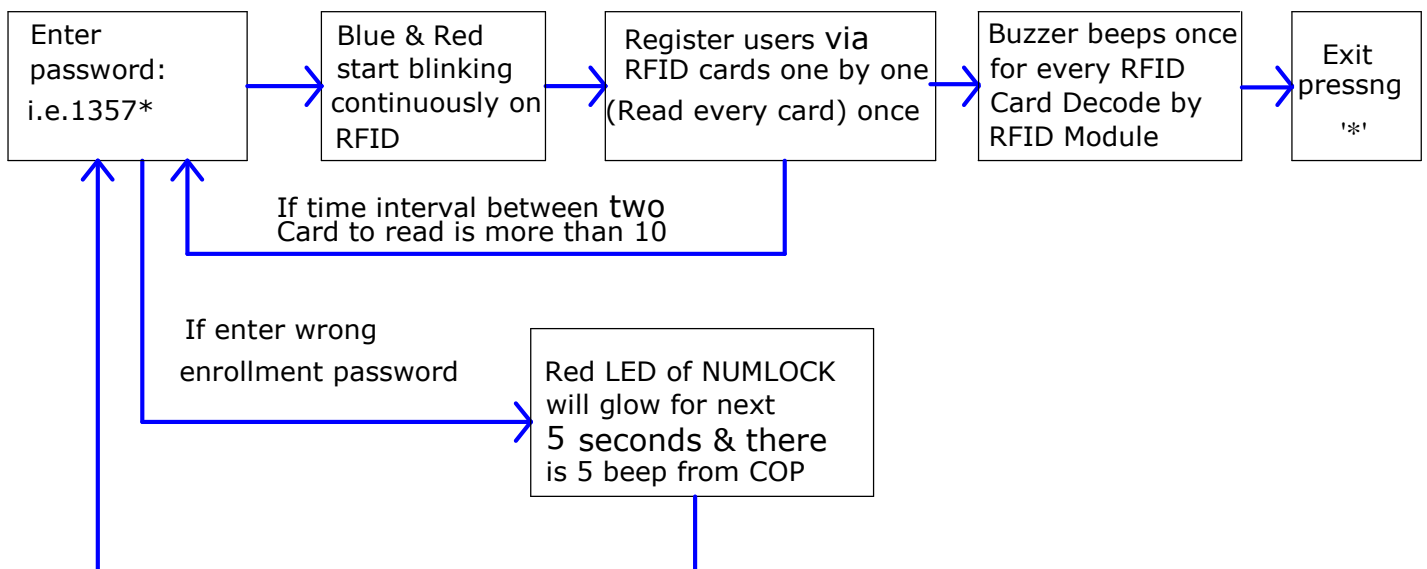
### **❖ CALIBRATION OF RFID ACCESS SYSTEM:**

The RFID based access system is now popular in the industrial area to provide restricted access in the particular area. Here in this system we use RFID technology for using the elevator car, by using RFID access, we can now restrict the access to the limited person having registered RFID card.

There four operations what we can perform on the RFID card one is the run time access to elevator using RFID card, second is registration of the new RFID cards, third is erasing of the registered RFID card and fourth is to change the password for the registration and erasing of the RFID card. Here we will see how to access elevator using RFID card at run time.



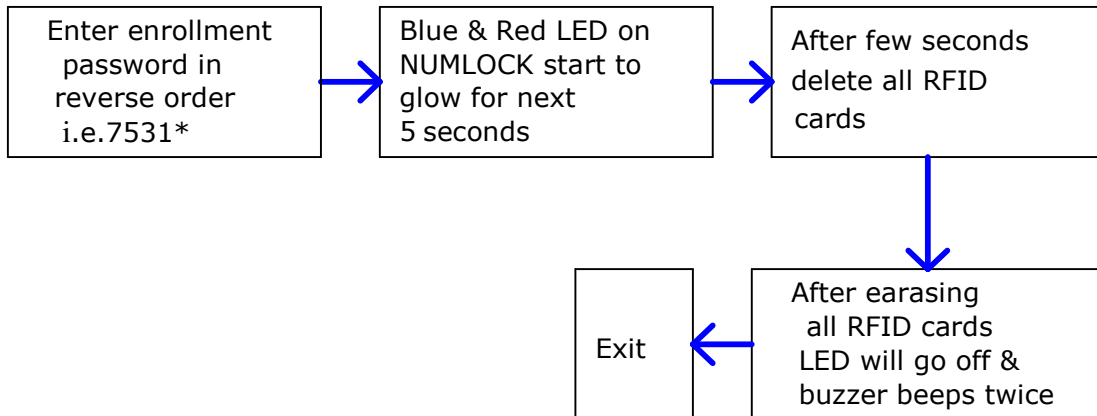
➤ **ENROLLMENT OF NEW USER RFID CARD:**



**DIA: ENROLLMENT OF NEW USER**

A user can book a call over RFID access system only when users RFID card is registered with system.

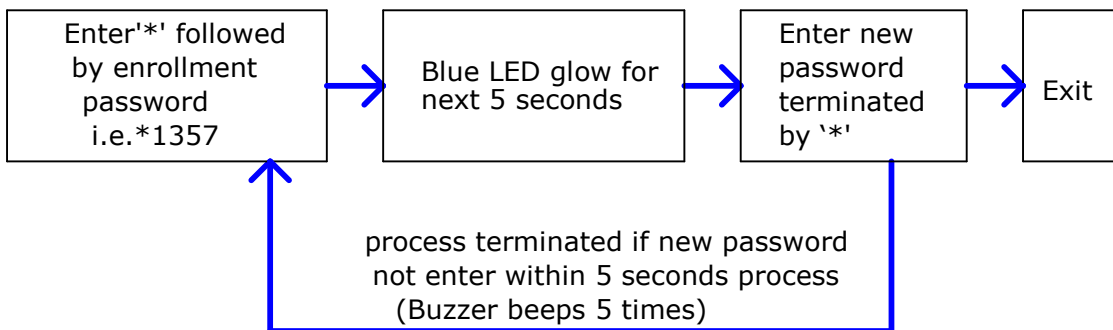
➤ **ERASING OF ENROLLED RFID CARD:**



**DIA: ERASING OF ENROLLED RFID CARD**

Now if user wish to erase the enrolled RFID cards from the RFID module then user have just entered the sequence of step given above.

➤ **CHANGING PASSWORD FOR RFID CARD ENROLLMENT AND ERASING:**



**DIA: CHANGING PASSWORD OF ENROLLMENT AND DELETION FOR RFID CARD**

Looking at the security issues one can change the calibration/ erasing password of the RFID operation. So that only user with authority can calibrate and erase the RFID cards.