

# 2455SP USER MANUAL

## 1. Summary

### 1.1 What is 2455SP Locks?

2455SP locks are the RFID and keypad integrated locker lock can operated by either RFID Cards or password keypads.



## 1.2 RFID Card Types and Functions

Item	Card Types	Functions
1	User Card	This card can open registered lock only
2	Data Card	Read the open lock record and lock information
3	Time Change Card	Setup lock clock
4	Setup Card	Write preset information into lock
5	Management Card	Open any lock does not clear the registered card/password
6	Control Card	❶ Open any lock    ❷ Clear registered card/password
7	Authorization Card	Authorize ELMS software and locks

## 1.3 Lock Operation System Composition

Lock Operation System consisted of PC based Electronic Lock Management System (ELMS)

software and RFID Card reader/writer, and enable the operator to issue User card, setting the lock information, lock status and to produce the statistical report.

System Requirements:

- \* OS: Windows XP/Windows7/Windows8
- \* USB port for Card reader/writer interface

## **2. Operation Type**

2455SP Locker Locks are designed to work for the various operation requirements by simple setup process. Following operation modes can be programmed before or after lock installation.

### **2.1 Shared Use Mode**

- 2.1.1 User can select any available locker
- 2.1.2 LED lamp to show the status of locks
- 2.1.3 Programmable to use multiple locks with one user card
- 2.1.4 Programmable for time based operation

### **2.2 Permanent Use Mode**

- 2.2.1 Locker assigned to each user card in advance
- 2.2.2 Programmable to use multiple assigned lockers with one card
- 2.2.3 Programmable for multiple user per a locker

### **3. Lock Operations**

#### **3.1 Shared Use Mode**

##### **-- *Storage Device(s)***

- 3.1.1 User approaches the locker, Unlock Button is glowing green, which means the locker is available
- 3.1.2 Presses the Unlock Button, Green LED starts flashing the solenoid retracts for 3 seconds
- 3.1.3 User opens the locker door within 3 seconds, places device(s) inside the locker, then closes the door
- 3.1.4 User then refocuses on the keypad and begins entering his own 4-digit secret code
- 3.1.5 As he presses the first number button, the green LED flashing turns off, Red LED Successively turns on
- 3.1.6 After the fourth number is entered, the Lock Button starts flashing red
- 3.1.7 Presses the Lock Button within 5 seconds
- 3.1.8 The Lock Button continues to glow red, showing that the locker is in use

##### **-- *Take Device(s)***

- 3.1.9 User approaches the locker, start enter the 4-digit secret code then press Unlock Button
- 3.1.10 Red LED turns off, Green LED turns on
- 3.1.11 User opens the locker door and take out his device(s) then closes the locker door
- 3.1.12 Unlock Button light now glow steady green to show the locker is available now, waiting  
for the next user

#### **3.2 Permanent Use Mode**

- 3.2.1 The Lock Button glow red, showing that the locker is in use
- 3.2.2 User approaches the locker, Swipe registered User Card
- 3.2.3 Red LED turns off, Green LED starts flashing the solenoid retracts for 3 seconds
- 3.2.4 User opens the locker door within 3 seconds, places (or take) device(s) then closes the locker door
- 3.2.5 After 5 seconds, Green LED turns off, Red LED turns on, showing that the locker is in use

## **4. Lock Setting and Emergency open**

### **4.1 Lock Setting**

4.1.1 Use the ELMS software to pre-setting the lock's information, then issues Cards

4.1.2 Swipe Authorization Card

4.1.3 Swipe Setup Card, Lock setting finished

### **4.2 Emergency open**

In case user forgot the password, or lost his User card

4.2.1 Operator can swipe the Management Card to open the lock

4.2.2 Or swipe the Control Card to open the lock

*Note: If the lock worked in Shared Use mode, after swiped the Control Card, the registered card / password will be clear*

## **5. Indication of sound and light**

### **5.1 Keypad operation**

- 5.1.1 All the secret code is 4-digit 0 – 9
- 5.1.2 Key tone: 1 short beep
- 5.1.3 Unlock or Lock : 2 short beeps
- 5.1.4 Less than 4-digit are entered presses Lock Button: 4 short beeps
- 5.1.5 More than 4-digit are entered presses Lock Button: 3 short beeps
- 5.1.6 Available status: Unlock Button glow green
- 5.1.7 In use status: Lock Button glow red

### **5.2 RFID Card operation**

- 5.2.1 Swipe User Card: 1 short beep, green LED flashing 5 seconds
- 5.2.2 Swipe Management Card: 2 short beeps, green LED flashing 5 seconds
- 5.2.3 Swipe Control Card: 2 short beeps, green LED flashing 5 seconds
- 5.2.4 Swipe Data Card: Start Read: 1 short beep, Finished: 2 short beeps  
green LED flashing
- 5.2.5 Swipe Time Change Card: 2 short beeps
- 5.2.6 Swipe Setup Card: 2 short beeps
- 5.2.7 Swipe Authorization Card: 1 short beeps

## FCC Information and Copyright

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates,

uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference

to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does

cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is

encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### 15.19 Labelling requirements.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.