USER GUIDE
RF&KEYPAD INTEGRATED
LOCKER LOCK
(model :PT200)

e-Smart Lock
PASSTECH
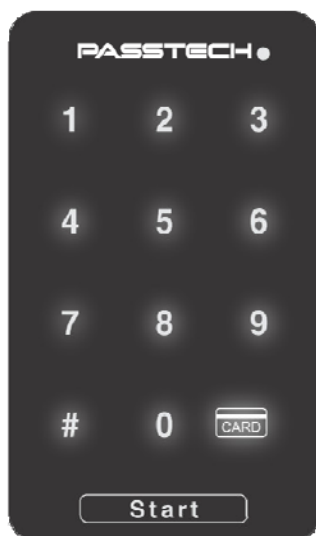
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1. Understanding PT200 Locker Lock

1.1 What is PT200 Locker Locks?

- PT200 locker locks are the locker lock operated by either13,56 MHz RF keys or Digital touch keypads.
- PT200 can work as both offline (stand alone) or online mode.
- To set PT200 as online system, additional peripherals such as Access point, Server and client software are necessary. **Refer Esmart Ultra user manual for online lock system setup.**

1.2 Card Types and Functions

◆ Key Card   : Input Key value to locks.

◆ Setup Card   : Program lock with various options.

◆ Owner Card   : Delete Master card registration in the lock

◆ Master Card I   : Open all locks. Alarm Off, User card delete & registration, and Lock open.

◆ Master Card II   : Open or close all locks, Alarm Off and Locker open and close only.

◆ User Card   : Lock open and close

◆ Audit Trail Card   : Collect the latest 18 event data from the lock, and download to the data to PC through LOS program.

◆ Maintenance card   : Time Setting & New Master Card registration.

◆ Lock Info Card   : Collect various lock information. One Lock info car can collect information of up to 120 locks

* For detail information about all system cards, check LMS or LOS manual.

2. Types of Lock Operating Scenario

PT200 locker locks are designed to work for the various operation requirements by simple set up process. Following operation modes can be programmed before or after lock installation.

2.1 Free Selection (Day Use)

- User can select any empty locker.
- LED lamp is blinked to represent locker is in use.
- Programmable to use multiple locks with
 one User card.
 - Programmable for Time based operation
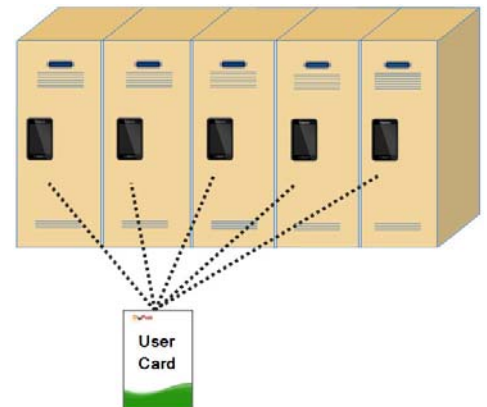
2.2 Assigned Mode (Pre-Assigned Mode)

 - Locker assigned to each User card in advance.
 - Programmable to use multiple assigned lockers
    with one card
    (max. 5 lockers in current program).
 - Programmable for multiple user mode
    per a locker (max. 8 users in a locker).
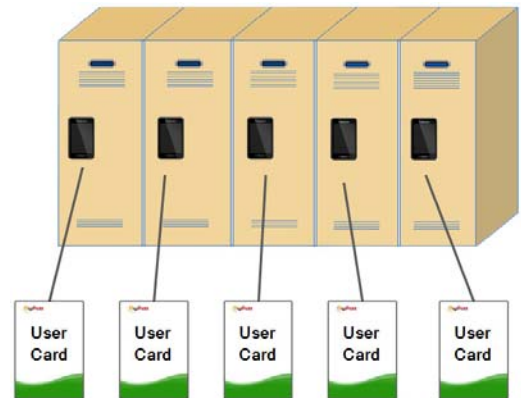
3. Lock Operation

3.1 Pass code & RF tag uses

① PT200 can be set three different credential acceptance modes.
② Pass code & RF tag mode accepts both pass code and RF tag
③ RF tag only mode accepts only RF tag (no pass code available)
④ Pass code only mode accepts only pass code and does not read any RF tag.
⑤ These modes can be set from Set up card.
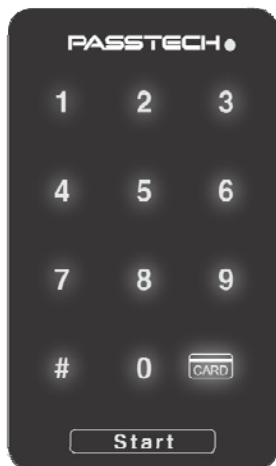
Pass code & RF tag   RF tag only   Pass code only
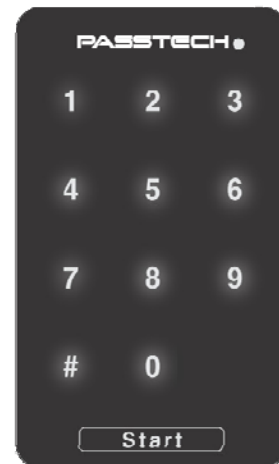
3.2   Assigned Mode

- Open & Close by Pass Code

① Default Pass Code :1234

② Open： "Start" button + "4 digit pass code"+ "Start" button

③ Close： Automatic close after several seconds

④ Change Pass Code：

"Start" button + old pass code + "Start" button + new

pass code + "Start" button + new pass code + "Start"

button

Note: Pass code can be changed only when the lock is under unlocked situation.

- Open & Close by RF card key

① RF card key can be used together with Digital Pass Code anytime.

A. "Start" Button + Put User Card on the Lock.

② When user uses the RF card key, default Pass Code 1234 will be erased from the lock. However, User Pass Code except default pass Code is not deleted.

③ When user wants to set new Pass Code, the process is same as in "Change Pass Code" while lock is in unlock position. Default Pass Code 1234 cannot be used as User Pass Code.

3.3　Free Selection Mode

- Open & Close by Pass Code

① Close： "Start" button + self-selected 4 digit code + "Start" button
② Open： "Start" button + User's 4 digit code + "Start" button.
　　　　　　Bolt stays open

- Open & Close by RF card key
　　　"Start" Button + Put User card on the lock.

　　Note:　After it is unlocked, any 4 digit password can be used to lock it.
　　　　　　User Pass Code will be deleted each time lock is opened.

3.4　Open in Emergency

① In case User forgets his(her) password or lost card, Operator can open the lock by Master Card I or Master code.
② If Master code is set, "Start" button + Master code + "Start" button to open any locks. Master card can be set by Set up Card.
③ Once Master card I is used to open the lock, the lock reverts to default position
   (i.e. lock will stay open for Free Selection, and default code of 1234 for Assigned mode.).
④ User Card ID will be erased from the lock if Master Card I has the function to delete the User ID.
⑤ When the lock stops working due to low battery, lock can be opened by external emergency battery pack.

4.   Card Operation

4.1   Owner Card

The role of the Owner card is to delete the Master card registration. Therefore, Owner card will be used to delete current master card registration in the lock, and make the lock to be ready to register new Master Card.

It is simple to delete the Master card registration and to register new master card in the lock **:**

① Put the Owner card to the lock until lock sounds beep (one time) and red lamp lights.

② Now, all Master card registration is deleted from the lock.

③ After *Owner card scanned, put new master cards to register to the lock*

4.2   Master Card

4.2.1   Functions of the Master Card

① Customer can select the function of the Master card from the following two options. Master card setting will be done by supplier.

◆   *Master card I   : Alarm Off, User card delete and Locker open.*

◆   *Master Card II : Alarm Off and Locker open and close (User remained)*

② Maximum five Master cards can be registered in a lock.

4.2.2   Replacing old Master cards with New Master cards

There are two ways to delete the lost Master card and register new Master card in the lock.

- Using Time/Master Change Card

①   Read the master cards (all Master cards to be used in a lock) to register in each lock at Time/master change menu in LOS program (or LIS program).

②   Put the Time/Master change card to the reader, and download the master card chip numbers to the Card.

③   Put the Time/Master change card to the locks, then, new Master cards will be registered to the lock, and lost master card will be blocked.

- Using Owner Card

①   Delete the old master card registrations in the lock (refer to the 3.1) with Owner Card.

②   Put new master cards to each lock so as to register new master cards. Then, old master card you lost will not be used.

☞ All existing Master cards needs to be registered again together with new Master card because all master card registrations were deleted if Owner card or Clear card is used.

4.2.3   Functions of the Master Cards

The function of the Master card can be selected when Master card is issued by :LKS (Locker Key Management System).

① Door Open & User deletion : Turn off the alarms, open the lock and delete old User card registration in the lock.

② Door Open and close : Turn off the alarms and open the lock, and close the lock. User information in the lock is remained.

4.2.4   How do I add new Master card?

The procedure to add new Master card is same as 3.2.1. All master cards that will be used in locks must be registered to the locks because all Master card registration is deleted from the locks when Owner card is used.
Alternatively, Time/Master change card can be used. It is recommended to register new master cards at many locks. Please refer to the LOS program manual for Master card registration.

4.3   User Card

4.3.1   Free Selection

The initial status of the lock in Free Selection mode is open (Latch is inside).

- Initial Use -
　　① Select the empty locker.
　　② Put your belongings in the locker.
　　③ Press "Touch" button on the front body of the lock to wake up the lock, and place your card (or any form of user key) to the front body of the lock.
　　④ Wait until the Green LED lights and Beep sounds once.
　　⑤ Bolt will move out, and lock is closed.
　　⑥ Close the door, and the lock will be remained at locking state.

- Open the lock -
　　① Press "Touch" button on the front body of the lock.
　　② Put close your card to the front body of the lock.
　　③ Lock will check the lock ID and key of the user card (or any form of user key).
　　④ Lock will emit Green LED and beep sound once it is right user card .
　　⑤ Bolt will be moved and locker will open.
　　⑥ User information will be erased from the lock so that new user can use the empty lock.

☞ *In free selection mode, lock and card needs to read and write the each other's information. So please do not sway the card until the latch is moved.*

4.3.2 Assigned Mode (Pre-Assigned Mode)

The initial status of the lock in Assigned Mode is closed status (bolt out)

- Open and close the lock -
① Press "Touch" button on the front body of the lock.
② Put the User Card to the front body of the assigned lock.
③ Lock checks the card, and green LED lights and beep sound once. Then, lock will be opened, and closed again in 5 seconds.
④ To close the locker, just close the door. Lock will remains the closed status.

4.3.3 Replacing old User card with New User card

(1) Free Selection
① Issue new user card by LOS (Locker Operation System) program.
② In case the locker is closed, put Master Card to the lock to open the lock.
③ Put new User card to the lock, then lock will accept new User card, and missing card will not be accepted.
④ In case the locker is opened, just put the new user card to the lock, and the lock will register this locker number. Old User key will not be accepted.

(2) Assigned Mode
① Issue new User card (with assigned locker Number) for Assigned mode.
② Put Master Card to the lock to delete the old user card, and put the new User card to the lock.
③ Lock will accept the new user card only, and old user card registration will be deleted.
④ In case the lock is set for multiple users, lock revision should be updated when new user card is issued by LOS program. Then, Lock updates it's revision number when new user card is registered. The other user cards which are assigned to this locker also needs to be reissued with updated lock revision by LOS program.

4.4 Low Battery warning and battery change

The RFID lock uses 4 pieces of 1.5V AA alkaline batteries (6V).

- When battery reaches to low voltage ;
① Beep sounds five times.
② Red LED lights
③ Low battery is recorded in the memory of the User Card (Operator can know the low battery of the lock when the card is read at operator's Program).

-When low battery warning sign is displayed, please change the battery.
① Open the battery case at main case.
② Change four batteries.
③ When you pull out the battery, and if you do not insert the batteries in 3 minute, the clock of the lock returns to default time.(2010. 01.01)
④ Please use Maintenance card to set the time of the lock.
(For setting of Time/Control Change card, please refer to "LOS (Locker Operation System) User Manual" or LIS (Locker Installation System) User manual.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS

4.5 Audit Trail

① Put Audit Trail Card to the lock.
② The latest event data (up to 18 events) will be downloaded from lock to the Card. Wait until melody is on.
③ Read the Card at LOS program, and 18 event data will be saved to the PC.

4.6 Lock Info

① Put Lock info Card to the lock.
② Various lock information data will be downloaded from locks to the Card. One card can collect up to 120 locks.
③ Read the Card at LOS program, and all data will be saved to the PC.
④ Lock ID, operation mode, Battery status, time, auto opening setting status, RF channel and more will be indicated.

5. Indication Instruction

1) All the pass code is 4 digit（0-9）.

2) "Start" button：wake up button，the keypad or RFID does not respond before you press "Start" button.

3) Open/Close：GREEN LED on for 0.2 second, one beep sound for 0.2 second.

4) Successful programming：Melody.

5) Indicate for mistake：RED LED flashes 3 times， 3 beep sounds

6) Low voltage：RED LED blinks 5 times, and beep sounds 5 times.

7) Incorrect pass code or input is beyond 5 digits: see #5, power off， need to press "Start" button to wake up the keypad.

8) When the input is incomplete, after 5 seconds, see #5， power off .
You need to press "Start" button again to wake up the keypad.

ANNEX A　Beep & LED Table

Beep	LED	Description
1 x short beep	1 x Green(2sec)	OK
2 x short beep	1 x Red(2sec)	Operation Error
3 x short beep	1 x Red & Green in turn(2sec)	Time over
Do-Re-Mi Melody	1 x Red & Green in turn(2sec)	Successful Set up / mode change / Time setting
5 x short beep	5 x Red & Green	Low battery
Do-Re-Mi Melody	2 x Red & Green	Successful connection between front and back bodies.
1 x short beep	1 x Green	Off the Alarm by Control card
Melody	1 x Green	Successful registration of Owner Card/ Master Card
Melody	1xGreen	Read Clear Card and delete the information of M/U in the memory of the lock.
No Beep	Both Green and Red LED blinks	1) Owner Card is not registered. 2) In case of Shift or Week-day operation mode, Alarm for shift or Time due.
No Beep	Red on/off	Owner card is registered, but Master card is not registered.
No Beep	Green on/off	Owner & Master card are registered, but User card is not registered in Assigned Mode.

ANNEX B　Trouble Shooting

Master card registration in the lock was failed.	1) Master card registration should be followed after deleting old Master card in the lock by Owner card. 2) Put Master card on the lock before waiting time is out after Owner card.
Cannot open the lock with Master card	Master card is not registered in the lock. Please Register the Master card in the lock.
Cannot open or close the lock by User card	1. Check the Setting of User card by LOS. 　(1) Free Selection Mode 　　● Validity / Operation mode / Lock ID / Number of locks this user card can be used. 　(2) Assigned Mode 　　● Validity /Operation Mode / Lock ID / Number of locks this user card can be used. 2.　Reset the time of the Lock with Time/Control card change. 3. Old User card may be still in the memory of the lock. Erase the card information from the lock by Clear card, then register again the Owner card and Control Card, then use User card.
When "Start" button is pressed, five beep sounds with Red lamp.	Low battery sign. Please replace the batteries.
Latch does not move, while Card and lock operates in normal.	Too many goods may press the lock body or door. Push the locker door to make the space for the latch movement.

Thank you for selecting PT200 RFID/Keypad locks.

Should you have any questions, please contact your local distributor or our technical support.

USA-Federal Communications Commission (FCC)

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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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. If not installed and used in accordance with the instructions, it 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 tuning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna
  - Increase the distance between the equipment and the receiver.
  - Connect the equipment to outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

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