Hospitality Contactless Check-in Solutions

by e-Smart Mobile Key & Smart Code



Seamless Unlock Innovation

Contactless check-in solutions with IoT & wireless online technology

SMART © LOCK

Professionality

Smartelock's development team has developers with more than 20 years of relevant experience, and we strive to provide the best service by developing various needs and convenience of the end-users on a daily basis. Besides, we have our own overseas sales force to respond to customers' needs in real-time.

Advanced Technology

Applying World's first 13.56MHz RFID card, Mobile Access, and wireless online locker lock system development know-how to the hotel lock system, we provide more secure, stable, and qualified real-time lock control and monitoring hotel lock system.

Competitive Price

We offer a competitive price and better or similar functions compared to other well-known and leading hotel door locks. Also our locks don't require any additional installation fee as they are wireless online locks and thus they don't need any wiring work, unlike other wired online locks.

Customizing Service

We provide prompt customer service and solutions to the customer's any personal requests. As we own our R&D center, we proudly offer solutions straight away to the customer to review and apply.

Full 3rd party integration

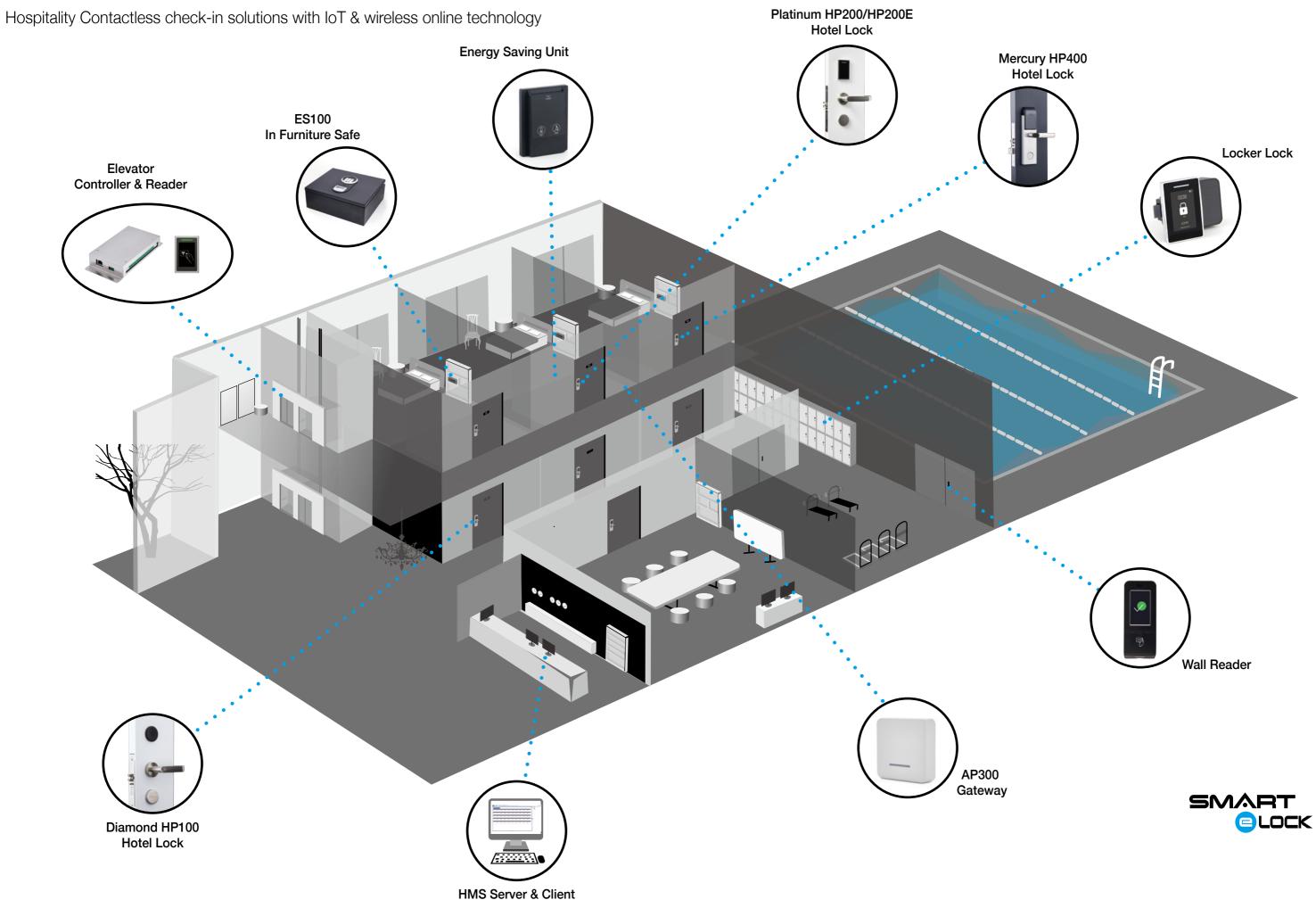
All our Smartelock hotel locks support 3rd party integration and compatible with them, such as PMS, GRMS, Room Intercom, and so on.







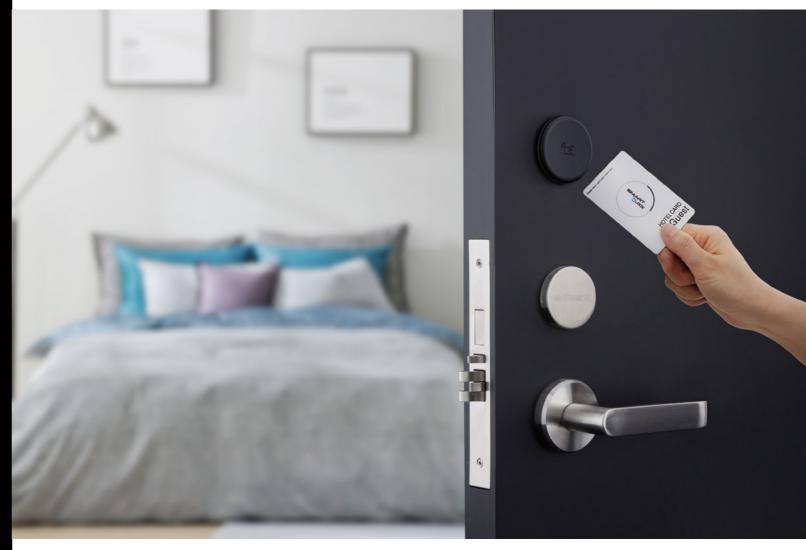
Seamless Unlock Innovation



Diamond HP100





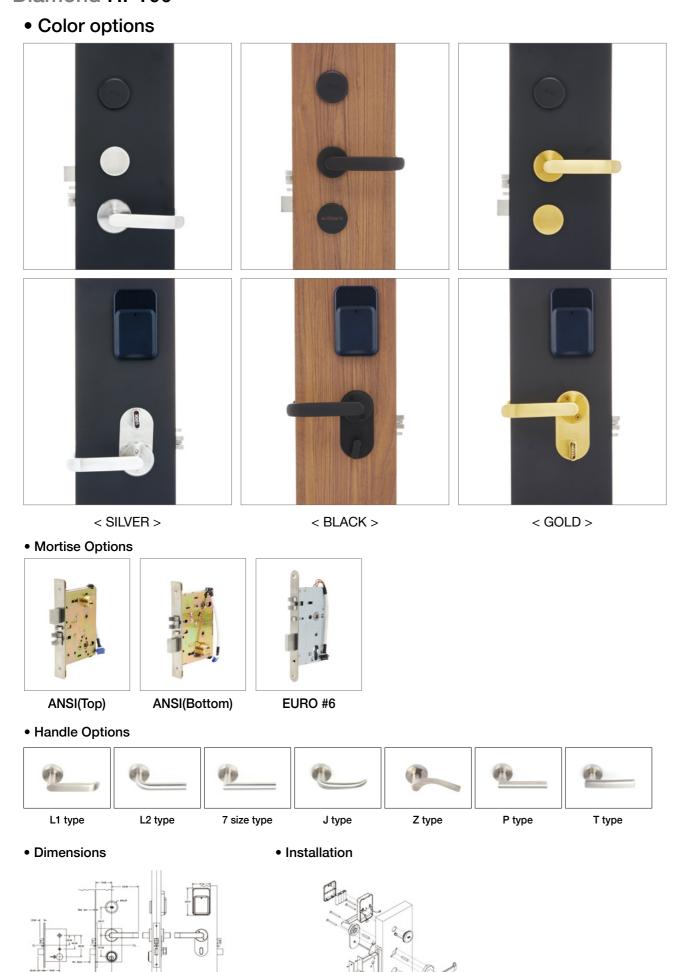


Feature

- Support RFID technology: Mifare classic & Desfire, ISO14443 Type A/B, ISO15693
- Support mobile key (BLE 4.0 or higher)
- BLE/ZIGBEE Unique security key by AES128 security algorithm
- Audit trail up to 2,000 events by RFID card or Smartphone
- Mortise standard: ANSI/EURO
- Support Dead bolt
- Provide Intrusion alarm
- Door Open/Close detection Sensor (Optional)
- Provide Ajar alarm
- Support Panic release: Deadbolt and latch are automatically retracted by inside handle for easy regress in emergency situations
- Mechanical override: Hidden cylinder key inside
- Lock Management by mobile app (Master key/FW update/Audit Trail/Battery Status check/etc.)
- Power Source : 1) Battery life: 18months and more (AA x 4)
 - 2) Wired Power (12V) Optional
- Certifications: CE, FCC, KC approved

Seamless Unlock Innovation

Diamond HP100

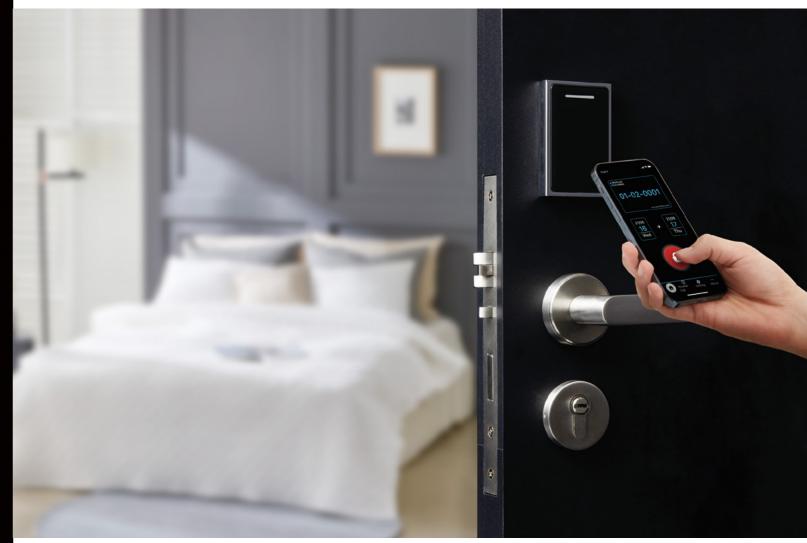












Feature

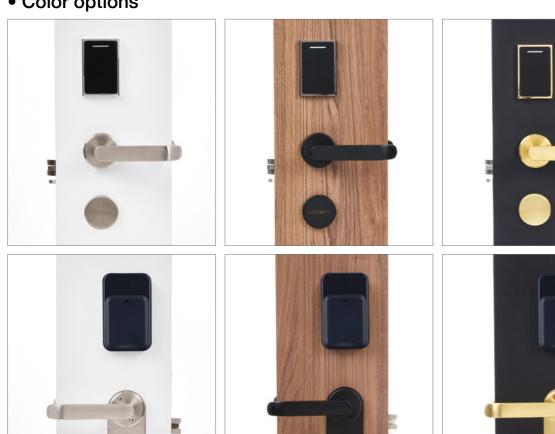
- Support RFID technology: Mifare classic & Desfire, ISO14443 Type A/B, ISO15693
- Support mobile key (BLE 4.0 or higher)
- BLE/ZIGBEE Unique security key by AES128 security algorithm
- Support PIN code(Smart code)

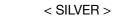
Use 10~12 pin code which is provided with HashCode algorithm from the client software or cloud server

- Audit trail up to 2,000 events by RFID card or Smartphone
- Mortise standard: ANSI/EURO
- Support Dead bolt
- Provide Intrusion alarm
- Door Open/Close detection Sensor (Optional)
- Support Panic release: Deadbolt and latch are automatically retracted by inside handle for easy regress in emergency situations
- Mechanical override: Hidden cylinder key inside
- Lock Management by mobile app (Master key/FW update/Audit Trail/Battery Status check/etc.)
- Power Source : 1) Battery life: 18months and more (AA x 4)
 - 2) Wired Power (12V) Optional
- Certifications: CE, FCC, KC approved

Platinum HP200

• Color options

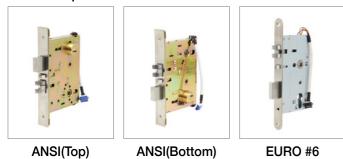




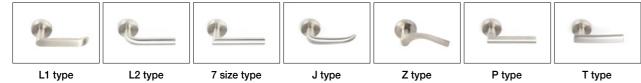
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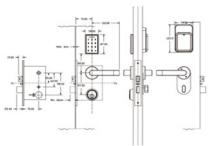
Mortise Options



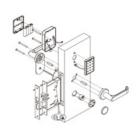
• Handle Options



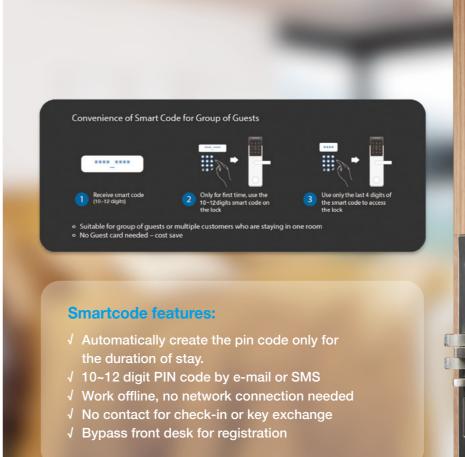
• Dimensions



• Installation

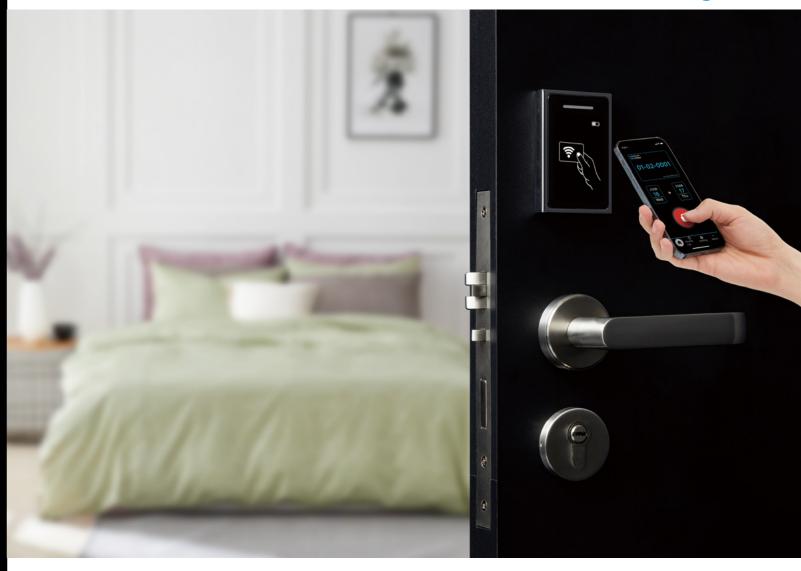








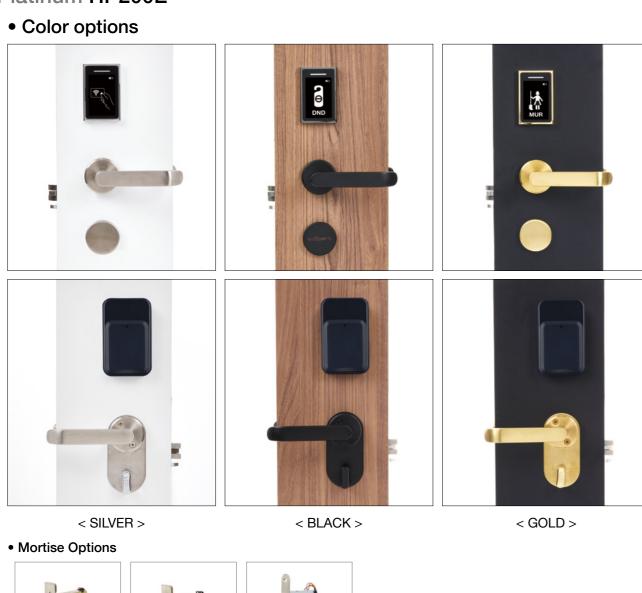


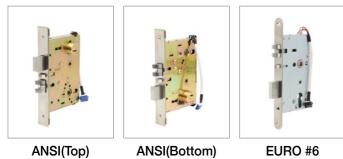


Feature

- Support RFID technology: Mifare classic & Desfire, ISO14443 Type A/B
- Support mobile key (BLE 4.0)
- Support E-display (DND/MUR/Room Number/etc,.)
- BLE/ZIGBEE Unique security key by AES128 security algorithm
- Audit trail up to 2,000 events by RFID card or Smartphone
- Mortise standard: ANSI/EURO
- Support Dead bolt
- Provide Intrusion alarm
- Door Open/Close detection Sensor (Optional)
- Provide Ajar alarm
- Support Panic release: Deadbolt and latch are automatically retracted by inside handle for easy regress in emergency situations
- Mechanical override: Hidden cylinder key inside
- Lock Management by mobile app (Master key/FW update/Audit Trail/Battery Status check/etc.)
- Power Source : 1) Battery life: 18months and more (AA x 4)
 - 2) Wired Power (12V) Optional
- Certifications: CE, FCC, KC approved

Platinum HP200E

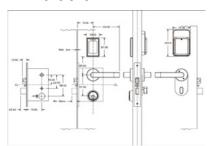




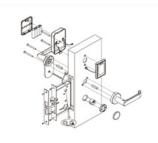
• Handle Options



• Dimensions

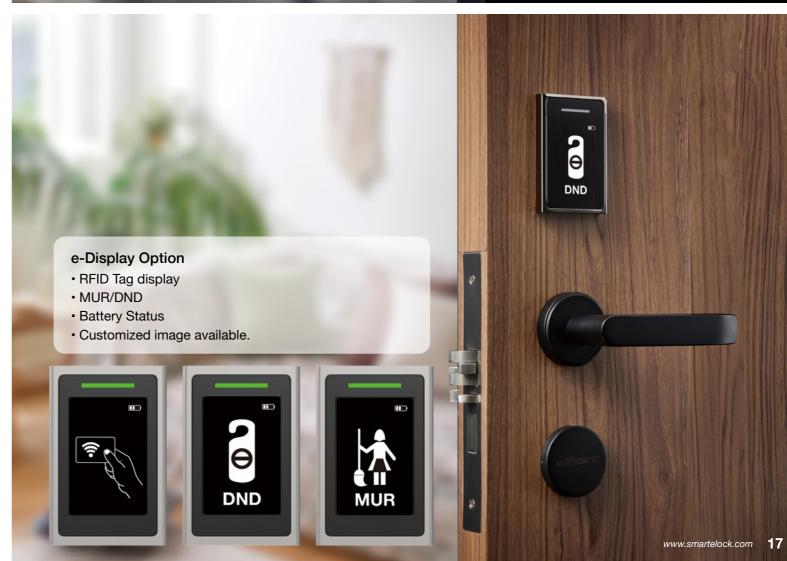


• Installation









Mercury HP400-02/03







Feature

- Support RFID technology: Mifare classic & Desfire, ISO14443 Type A/B, ISO15693
- Support mobile key (BLE 4.0 or higher)
- BLE/ZIGBEE Unique security key by AES128 security algorithm
- Support PIN code(Smart code) Use 10~12 pin code which is provided with HashCode algorithm from the client software or cloud server
- Audit trail up to 2,000 events by RFID card or Smartphone
- Mortise standard: ANSI/EURO
- Support Dead bolt
- Provide Intrusion alarm
- Door Open/Close detection Sensor (Optional)
- Provide Ajar alarm
- Support Panic release: Deadbolt and latch are automatically retracted by inside handle for easy regress in emergency situations
- Mechanical override: Hidden cylinder key inside
- Lock Management by mobile app (Master key/FW update/Audit Trail/Battery Status check/etc.)
- Power Source : 1) Battery life: 18months and more (AA x 4)
 - 2) Wired Power (12V) Optional
- Certifications: CE, FCC, KC approved

Mercury HP400-02/03

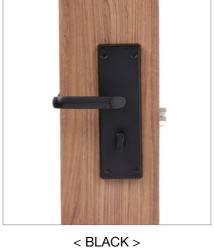
• Color options













• Mortise Options





02-ANSI(Bottom)

03-EURO #6

• Handle Options







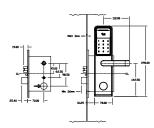




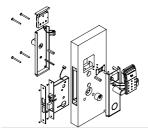
Z type P type

T type

• Dimensions











Mercury HP400N - 01 Mercury HP400N - 02/03





Mercury HP400N-01

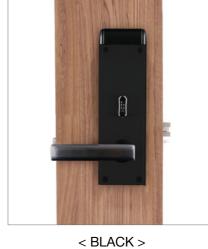
• Color options











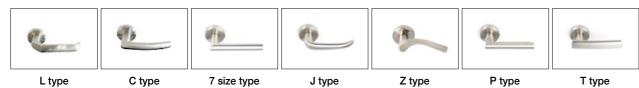


• Mortise Options

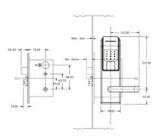


ANSI(Top)

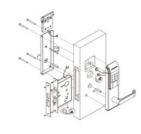
• Handle Options



• Dimensions



Installation



Mercury HP400N-02/03

• Color options





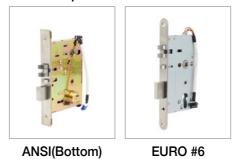




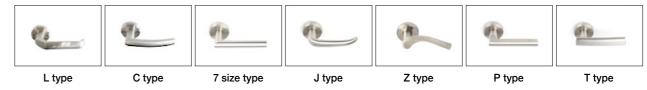




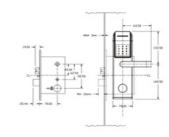
• Mortise Options



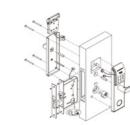
• Handle Options



• Dimensions



• Installation



Mercury HP500-02/03







Feature

- Support RFID technology: Mifare classic & Desfire, ISO14443 Type A/B, ISO15693
- Support mobile key (BLE 4.0 or higher)
- BLE/ZIGBEE Unique security key by AES128 security algorithm
- Support PIN code(Smart code) Use 10~12 pin code which is provided with HashCode algorithm from the client software or cloud server
- Audit trail up to 2,000 events by RFID card or Smartphone
- Mortise standard: ANSI/EURO
- Support Dead bolt
- Provide Intrusion alarm
- Door Open/Close detection Sensor (Optional)
- Provide Ajar alarm
- Support Panic release: Deadbolt and latch are automatically retracted by inside handle for easy regress in emergency situations
- Mechanical override: Hidden cylinder key inside
- Lock Management by mobile app (Master key/FW update/Audit Trail/Battery Status check/etc.)
- Power Source : 1) Battery life: 18months and more (AA x 4)
 - 2) Wired Power (12V) Optional
- Certifications: CE, FCC, KC approved

Mercury HP500-02/03

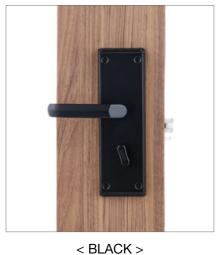
• Color options













Mortise Options





02-ANSI(Bottom)

03-EURO #6

• Handle Options





C type



7 size type



J type



P type

Z type

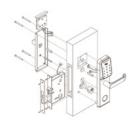


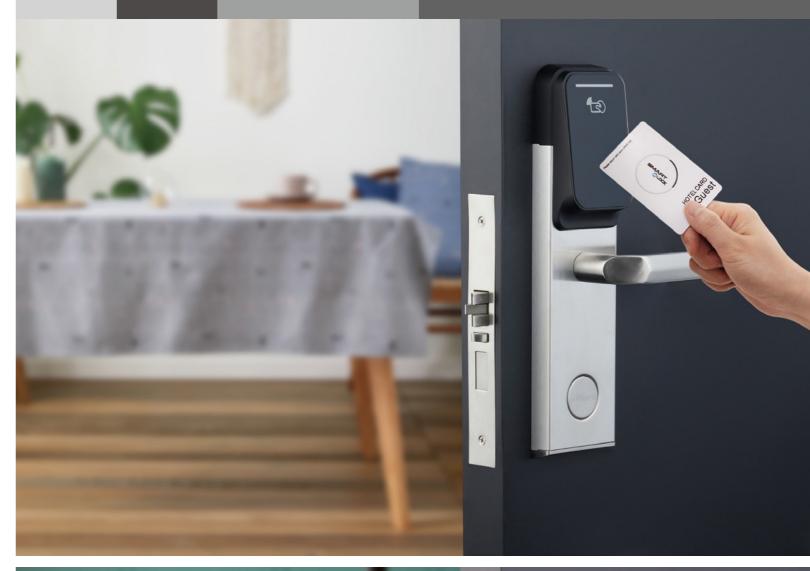
T type

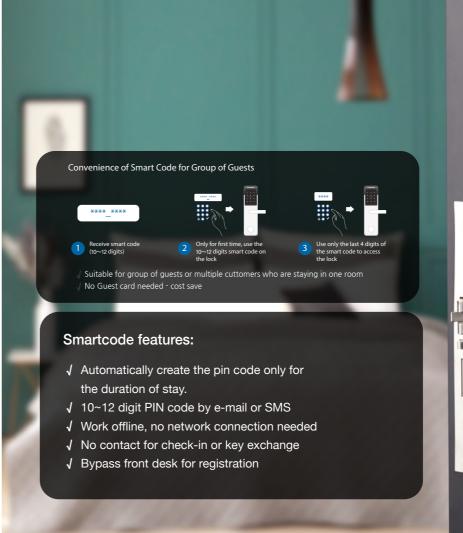
Dimensions

L type

Installation







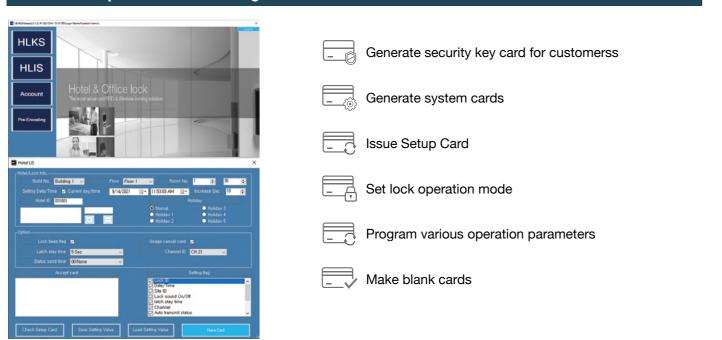


Management Software

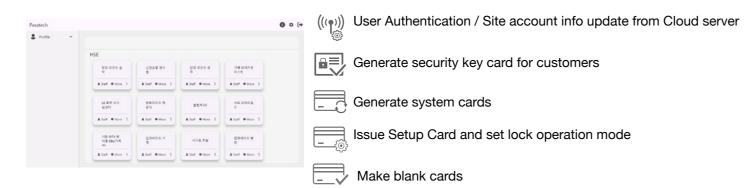
▶ Management Software for Distributor

• e-Smart Cloud Server Manage Vendor(distributor) accounts Manage End-client's site account for Admin mobile use (Distributor) Generate Mobile key & Smartcode

· HLKS / On-premise Lock Management Software

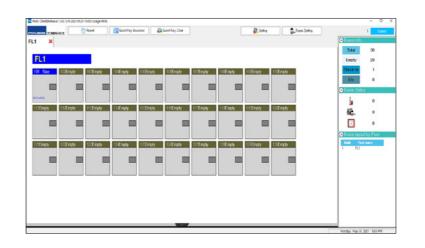


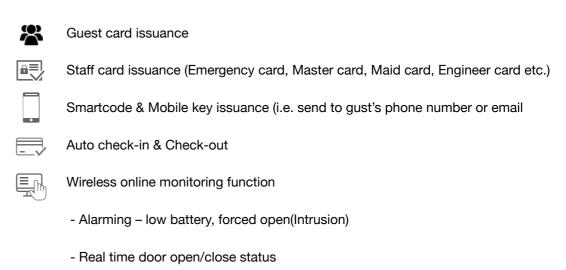
· e-Smart Cloud HLIS / Cloud based Lock Management Software



▶ Management Software for End-customer

· e-Smart HMS software





Online audit trail (unlimited) and offline audit trail (2000 events)

Provides various type of management reports

Manage Access control of common doors - gates, fitness, pool, staff facilities etc.

Remote Online stay extension without visiting reception

Remote Online room change without visiting reception

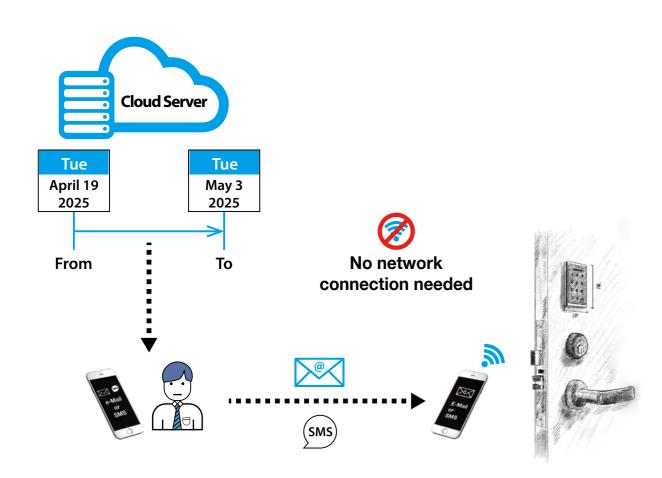
Online card blacklist function

Broadcasting command function – all doors open, closed

Technology & Solutions

MOBILE ACCESS SOLUTIONS

Mobile **App** Key

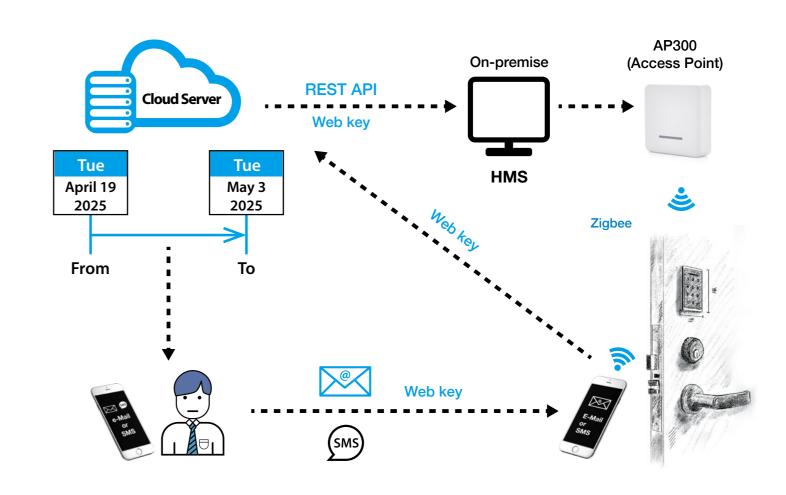


- √ No network connection needed
- √ Encrypted mobile key by mobile app (Mobile app needed)
 - Over 2~3 seconds for access authentication
- √ Bypass front desk for registration
- √ No risk of losing keys or cards
- √ No contact for check-in or key exchange
- √ No guest card needed cost save





Mobile Web Key



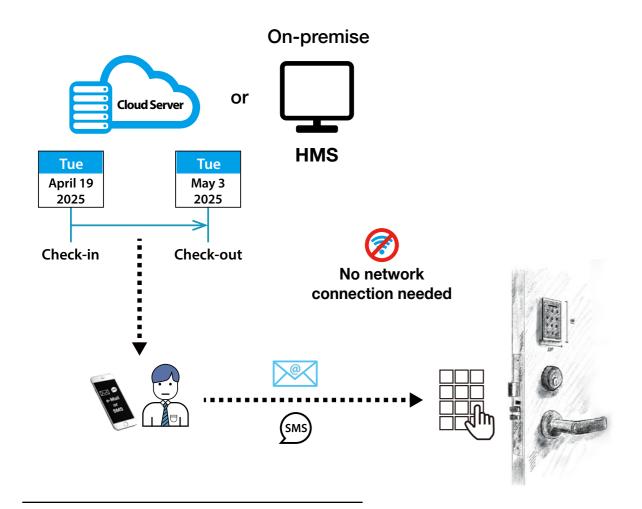
- √ Real time online mobile access by smartphone,

 No mobile app needed 1~2 seconds for access authentication
- √ Network connection always needed
- √ Bypass front desk for registration
- √ No risk of losing keys or cards
- √ No contact for check-in or key exchange
- √ No guest card needed cost save



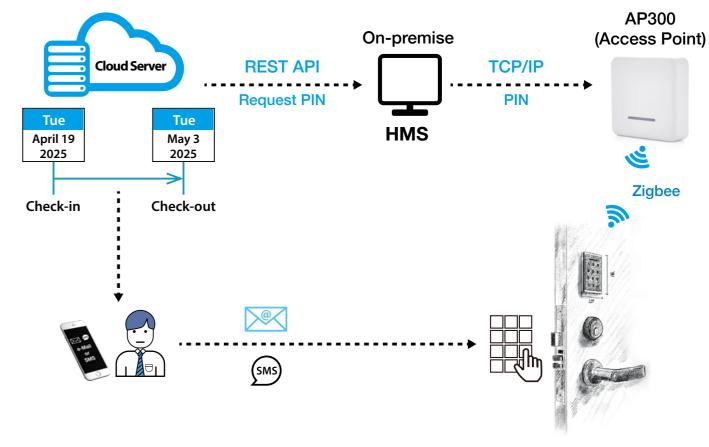
10 Digit SMARTCODE(Time Sensitive) - Offline





- √ Completely Work offline.
- Receive 10-12 digits SmartCode by SMS.
- √ Enter 10-12 digit SmartCode for the first time. authentication and use the last 4 digits afterward.
- √ Suitable for a group of guests.
- Bypass front desk for registration.
- √ No risk of losing keys or cards.
- √ No guest card needed cost save.

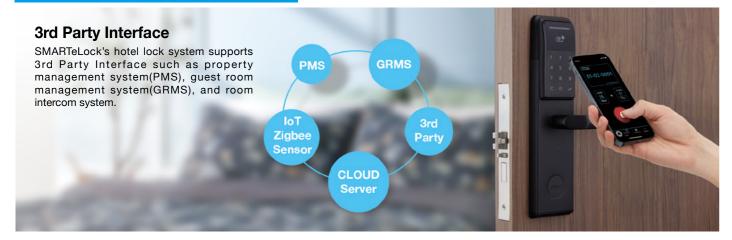




- √ Must Work online.
- √ Receive 4 digits PIN code by SMS and enter it.
- √ Enter 10-12 digits OTP code in case of network failure.
- Suitable for a group of guests.
- √ Bypass front desk for registration.
- √ No risk of losing keys or cards.
- √ No guest card needed cost save.

www.smartelock.com **35** Seamless Unlock Innovation

3rd Party Interface

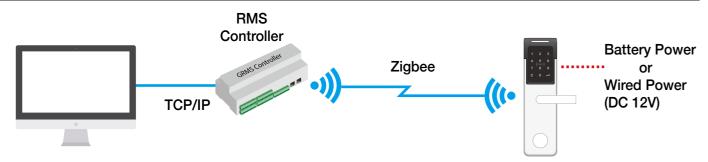


• SMARTeLOCK's hotel lock system supports 3rd Party Interface such as property management system(PMS), guest room management system(GRMS), and room intercom system.

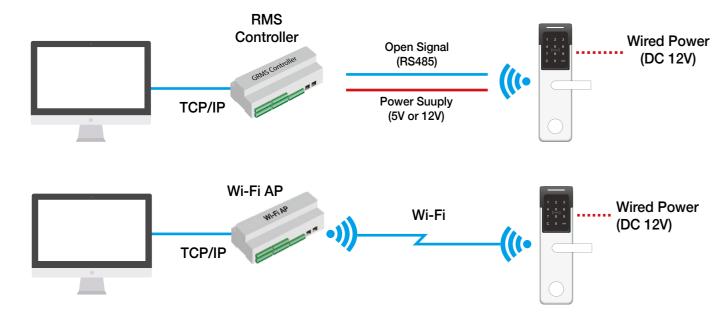
PMS interface

- Support PMS interface that is used in the hotel and provide SMARTeLock's unique total management solution that is for reservation & room management, issuance of guest card, and so on.
- Easily manage your hotel from the front desk using room/staff card issuance program module which is optimized for PMS interface.

GRMS interface



- * Provide room/staff card issuance SDK in order to support integration with existing GRMS solution for the total solution.
- * If you are using Zigbee stack in your RMS controller or other devices, it can communicate with our door lock with Zigbee.

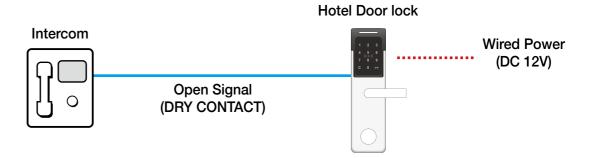


- * Door locks can be interfaced with 3rd Party GRMS by using RS485 communication and wired power supply.
- * By using commercial Wi-Fi access point, door locks can be interfaced and controlled/monitored wirelessly.

Room intercom interface

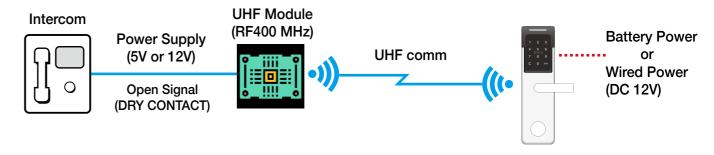
• Control it by communicating Door lock with wireless Zigbee module or wired communication module on an Intercom that was installed previously.

Type 1



* Needs Wiring work (1 Line) from Intercom to Hotel door lock.

Type 2



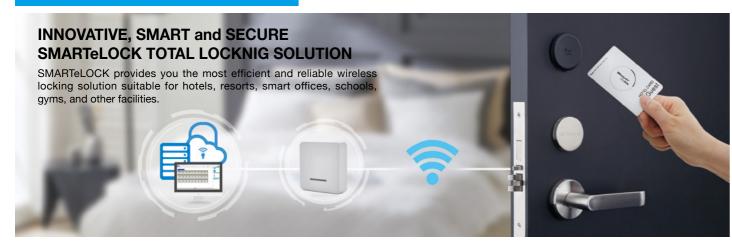
* Doesn't need Wiring work from Intercom to Hotel door lock.

Software Development Kit (SDK)

- Third-party software companies and end-users are allowed to operate and manage SMARTeLock Hotel door locks by utilizing e-Smart locking solution. API(Application Programming Interface) to control access within their own applications.
- Customer can create card issuance and management system for applications

| SDK Packages | Provided by SMARTeLOCK | Developed by Customer |
|-------------------------------------|---|---|
| RestFul API | RestFul API Protocol Document HMS Server Program | Their own server program |
| Mobile User App For Anroid / iOS | SDK for Android/iOS Sample project (program source) for Android/iOS | Mobile app for Android/iOS needs to be developed by customer |

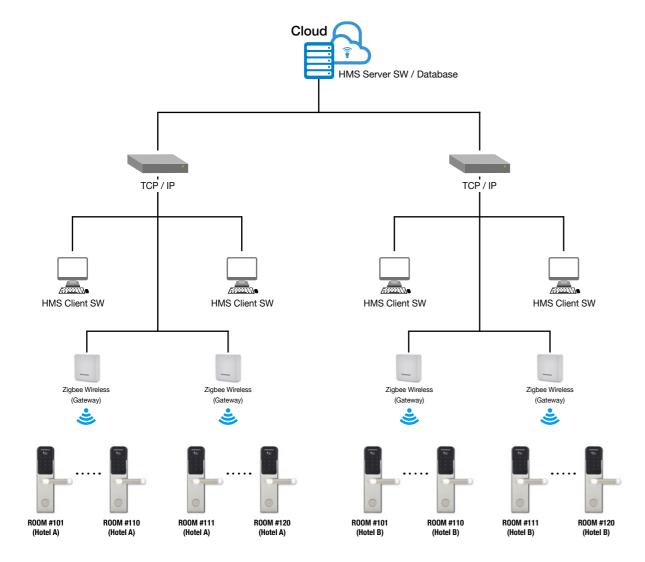
Wireless Online Solution



There are 4 solutions in Smartelock's online solutions such as, 1) Wireless online Zigbee communication using SMARTeLock's AP, 2) Wireless online Zigbee communication using 3rd party GRMS controller, 3) hard-wired RS485 communication using 3rd party GRMS controller, and finally, 4) wireless online communication solution using commercial Wi-Fi AP.

By using these solutions, SMARTeLock offers complete hard-wired / wireless online solution that can be applied to various circumstances.

1) Wireless online Zigbee communication using SMARTeLock's AP

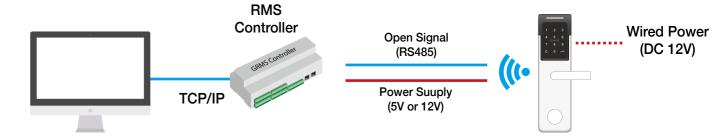


2) Wireless online Zigbee communication using 3rd party GRMS controller

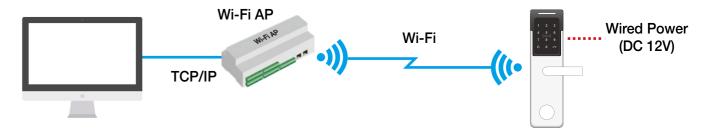


- * Provide room/staff card issuance SDK in order to support integration with existing GRMS solution for the total solution.
- * If you are using Zigbee stack in your RMS controller or other devices, it can communicate with our door lock with Zigbee.

3) Hard-wired RS485 communication using 3rd party GRMS controller



4) Wireless online communication solution using commercial Wi-Fi AP.



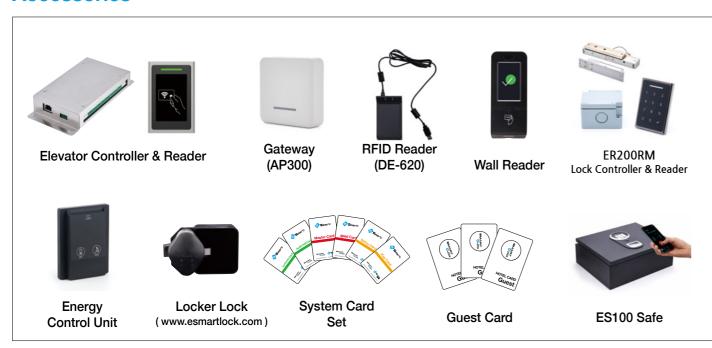
Comparison Table

| Features | Standalone Offline | e-Smart HMS Online |
|---|---|---|
| Audit Trail | 2,000 events (Card) Need to visit the door | Unlimited events(Online) Remote Online Audit Trail |
| Low battery status | Need to visit the door | Remote Online Low Battery status check |
| Extension of Stay | Need to visit the reception to extend | Remote Online stay extension without visiting reception |
| Room Change | Need to visit the reception to change | Remote Online room change without visiting reception |
| Real time room control & monitoring • Room status Monitoring • Lock/Card blocking • Lock opening/closing • Ajar alarm | Need to visit the door | Remote Online control & monitoring |

Seamless Unlock Innovation

System Components & Peripheral Equipments

Accessories



Elevator Controller



| ITEM | SPECIFICATION |
|-----------------------------|--------------------------------------|
| Control Floors | 16 Floors (Max. 64 Floor extensible) |
| Communication to the reader | RS-232 |
| Indicator | LED |
| Power Supply | DC 12V |
| Dimension | 203.4 x 94.4 x 32.7 (mm) |
| Operation temperature | -10°C~ 60°C |
| Certificate | CE/FCC/KC |
| | |

SPECIFICATION

Elevator Reader



e-Display reader



Customized reader

| | Communication to the controller | RS232(Controller) |
|--|---------------------------------|---|
| | Security | AES 128 |
| | User Credentials | RFID CARD (ISO14443 A/B, Mifare, ISO15693), Optional - Mobil key / QR code |
| | Indicator | Buzzer, LED |
| | Power Supply | DC 12V |
| | Dimension | 57 x 87 x 11 (mm) - TBD (Flat type) |
| | Operation temperature | -10°C~ 60°C |
| | Certificate | CE/FCC/KC |
| | | |

Gateway (AP300)



| ITEM | SPECIFICATION |
|------------------------------------|--|
| Communication with Server | TCP/IP (standard) 2.4Ghz Wireless(ONLINE LOCK COMM) |
| Material | Polycarbornate |
| Security | AES128 |
| Indicator | LED |
| Effective range | About 50 meters in open area (without barrier) |
| Communication Frequency with locks | 2.4GHz IEEE 802.15.4 Compliant RF Transceiver 40-50M (Between Lock and AP) |
| Dimension | 101.60 x 101.60 x 27.50 (mm) - AP300 |
| Input Power | DC 12V Adapter, POE (IEEE802.3af) |
| Operation temperature | 0°C ~ 50°C (Operating), -40°C~85°C(Storage) |
| Certificate | CE, FCC |

DE-620 RFID Reader



| ITEM | SPECIFICATION |
|-----------------------|---|
| RF card protocol | ISO014443 A/B, Mifare, FeliCa, ISO-18092, ISO-15693 / |
| PC interface | USB 2.0 |
| Input power | DC5V, 200mA |
| Operation temperature | 0°C~ 50°C |

Wall Reader



| ITEM | SPECIFICATION |
|-----------------------|---|
| RF card protocol | ISO 14443 A/B, Mifare, DESFire, Mobile Key(BLE) - Optional |
| Frequency | 13.56 MHz |
| LCD | 4.3"TFT wide(800X480) |
| Touch | Resistive touch |
| Dimension | 163*65*35mm |
| Input power | DC9~24V (9V/2A) |
| Operation temperature | -10 ~ 60°C |

ER200RM - Lock Controller & Reader



| ITEM | SPECIFICATION |
|---------------|---|
| Power | DC 12V, 1.5A(Adapter) |
| Credential | 1. RFID Card: ISO014443 A/B, Mifare, Desfire 2. Mobile Access: BLE 4.0 3. Smartcode (Time Sensitive Code) |
| Com. Protocol | RS232C Communication |

ER200HK - Hook Type Lock



| ITEM | SPECIFICATION |
|------------|--|
| Power | 4 * AA Alkaline batteries |
| Credential | RFID Card: ISO014443 A/B, Mifare, Desfire Mobile Access: BLE 4.0 Smartcode (Time Sensitive Code) |
| Functions | Hook Type / Wireless Online / Audit trail (2,000 Events) |

ER200DB - Deadbolt Type Lock



| ITEM | SPECIFICATION |
|------------|---|
| Power | DC 4.5V |
| Credential | 1. RFID Card: ISO014443 A/B, Mifare, Desfire 2. Mobile Access: BLE 4.0 3. Smartcode (Time Sensitive Code) |
| Functions | Deadbolt Type / Wireless Online / Audit trail (2,000 Events) |

EC300 - Gate Controller & Reader



| ITEM | SPECIFICATION |
|---------------|--|
| Power | IEEE 802.3af Power over Ehternet (PoE) |
| Credential | 1. RFID Card: ISO014443 A/B, Mifare, Desfire 2. QR Code |
| Com. Protocol | TCP / IP |

CL100 - Caravan Lock



| ITEM | SPECIFICATION |
|------------|--|
| Power | 4 * AA Alkaline batteries |
| Credential | Mobile Access: BLE 4.0, Smartcode (Time Sensitive Code) |
| Functions | Offline / Wireless Online(Optional) / Audit trail (2,000 Events) |

Locker Lock(ZP100)



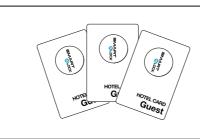
| | ITEM | SPECIFICATION |
|--|-----------------------|-------------------------------------|
| | RF card protocol | ISO014443 A/B, Mifare, FeliCa, ISO- |
| | | 18092, ISO-15693 |
| | Input power | 4 * AA Alkaline batteries |
| | Operation temperature | 0°C~ 50°C |

System Card Set



| > . | ITEM | SPECIFICATION | |
|-----|-----------------------|---|--|
| | RF card protocol | ISO014443 A/B, Mifare, FeliCa, ISO-18092, ISO-15693 | |
| | Operation temperature | 0°C~ 50°C | |

Guest card



| ITEM | SPECIFICATION |
|-----------------------|--|
| Dimension | ISO 7816 (85.6x53.98x0.76mm) |
| RFID chip | ISO 14443 type A / B :Mifare, Desfire & additional |
| | cards on request |
| Logo | Customer logo to be printed on request |
| Operation temperature | 0°C~ 50°C |

In Furniture Safes

Model





| Picture | | | |
|--------------------------|---|-------------------------------|--|
| External size | 150(H) x 410(W) x 350(D) (mm) | 200(H) x 400(W) x 300(D) (mm) | |
| Weight | 10KG | 12KG | |
| Opening Type | Top opening | Front opening | |
| PIN code | 4 digits | | |
| RFID credentials | MIFARE Classic & DESFire as default, ISO 14443 Type A | | |
| Mobile access (Optional) | E-Smart Mobile ID, Mobile Sync, Mobile Key | | |
| Emergency opening | Mechanical override key, Master code | | |
| Certification | CE, FCC, KC | | |
| Power Supply | 4 x AA Alkaline batteries | | |
| Audit trail | 2,000 Events | | |
| Wireless Online | Optional | | |

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Energy Control Unit



Energy Control Unit

SmarteLock's Energy control unit(Key holder) solution provides various smart features such as, differentiating card type to limit use of in-room electrical devices to save energy and guest in-room detection through communicating with various in-room devices for front desk to monitor.

Compatible with e-Smart mobile key, SmarteLock's Energy control unit(Key holder) detects e-Smart mobile key usage and allows full-feature of energy control unit(Key holder) without use of RFID card.

Features

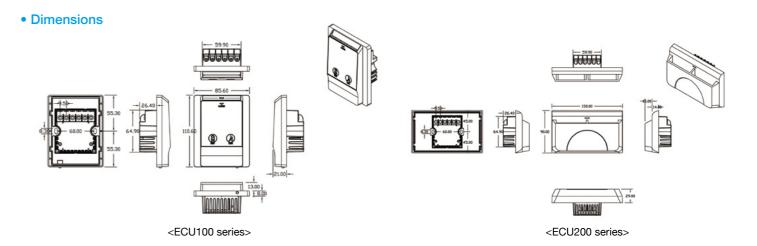
- : Save energy when the guests are not in their room.
- : Verify the guest card/staff card/dummy card intelligently and control separately.
- : Supports e-Smart mobile key.
- : Offer a guest in-room detection solution for Front desk to monitor (Through hotel door lock and motion sensor, etc)
- : Simple and easy installation
- : Comfortable courtesy light when removing the guest card from the energy control unit.
- : Able to insert card with casing (ECU200 only)



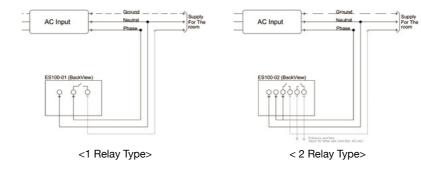
TECHNICAL DATA

| | ECU100-00 | ECU100-01 | ECU100-02 |
|---------------------------------|--|--|--|
| Description | Energy saving unit with 3rd party room controller | Standalone single relay energy saving unit | Standalone dual relay energy saving unit |
| Credential | RFID Card, Mobile Key (Optional) | RFID Card, Mobile Key (Optional) | RFID Card, Mobile Key (Optional) |
| Guest/Staff keycard | Depending on 3rd party Room controller, it prevents hotel staff from using certain electrical equipment in the room (air conditioning, TV, phone etc.) while cleaning the rooms. | | It prevents hotel staff from using certain electrical equipment in the room (air conditioning, TV, phone etc.) while cleaning the rooms. |
| Input Power | 12V DC | 110/220 Vac. Tolerance 10 %. | 110/220 Vac. Tolerance 10 %. |
| Consumption: | Max. of 150 mA. | Nominal of 10 mA. Max. of 20 mA. | Nominal of 10 mA. Max. of 20 mA. |
| Frequency: | | 50 - 60 Hz | 50 - 60 Hz |
| Number of relay / Max load : | | 1 relay / Normal load: 25A, Inductive load: 15A | 2 relays. One according to the power supply and other potential free / Normal load: 10A, Inductive load: 7A |
| Dimension (mm) | Height 110.60 • Width 85.60 • Depth 21 | Height 110.60 • Width 85.60 • Depth 21 | Height 110.60 • Width 85.60 • Depth 21 |
| (inch) | Height 4.35 • Width 3.37 • Depth 0.82 | Height 4.35 • Width 3.37 • Depth 0.82 | Height 4.35 • Width 3.37 • Depth 0.82 |
| Case Material | UL 94 V-0. | UL 94 V-0. | UL 94 V-0. |
| ECU Communication | Lock to 3rd party Controller RS485/Zigbee/WiFi | Lock to ECU Zigbee 2.4GHz IEEE 802.15.4 Compliant RF Transceiver | Lock to ECU Zigbee 2.4GHz IEEE 802.15.4 Compliant RF Transceiver |
| (Optional) | 2. Lock to ECU Zigbee 2.4GHz IEEE 802.15.4 Compliant RF Transceiver | 2. Gateway to ECU Zigbee/WiFi/RS485 | 2. Gateway to ECU Zigbee/WiFi/RS485 |
| MUR/DND Function (Optional) | Available | Available | Available |

ECU200 series has the same spec as ECU100 series, and the differences of the two series are the number of card slot (ECU100 series has single card slot, ECU200 series has dual card slot) and the dimension.



Wiring Diagram



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Portfolio of e-Smart Hotel Lock

HP100-01/02/03



HP400-02/03



HP200-01/02/03



HP400N-01/02/03



HP200E-01/02/03



HP500-02/03



Maintenance Tools

System Card Set



- · Key Card
- · Setup Card
- Maid Card
- **Master Card**
- Lock Info Combi-Card(80K)
- Audit Trail Combi-Card(80K)



Admin App(Lock Management App)



- · Lock Setup
- · Elevator Setting
- · Lock Info Check
- · Firmware Update
- · Audit Trail
- · Factory Clear
- · Master Key

Applications

SMARTeLOCK provides you the most advanced door locking solutions for various facilities including not only the hospitality, but also many other applications such as leisure & fitness, work space, education and rental. Experience our innovative wireless online & mobile access technology and become a part of our global partners.



Hospitality

Leisure & Fitness

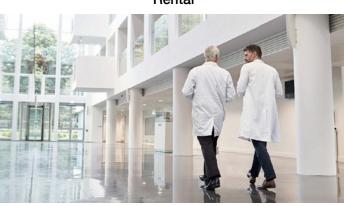




Smart Office

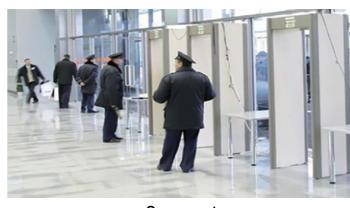
Rental





Education

Healthcare





Goverment

Pro Sports





Seamless Unlock Innovation

Hospitality Contactless check-in solutions by e-Smart Mobile Key & Smart Code



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