



Passive Smart Lock System



Scan to learn more

10,000 Locks Opening with 1 Key
Real-Time Monitoring

Passive Design
Smart Authorization

High Security

Smart · Secure · Efficient

CIC Pre-Approved Product List Code : PA25-143



Product Catalog

WWW.EPC-HK.COM

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S YSTEM FEATURES

Smart

One key can open multiple locks

-Authorization-based unlocking & smart alarm functions

IoT

Lock switch status background online monitoring

-Eliminate hidden dangers

Big Data

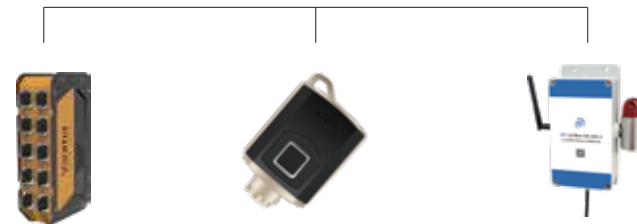
Lock switching time logging/query/statistics/analysis

-Work traceability

Management Center



CMP



Smart Electronic Key

Fingerprint authentication and authorization, Operation logging, Data upload, Smart reporting and Smart alarm



System Architecture

The system comprises of five core parts:

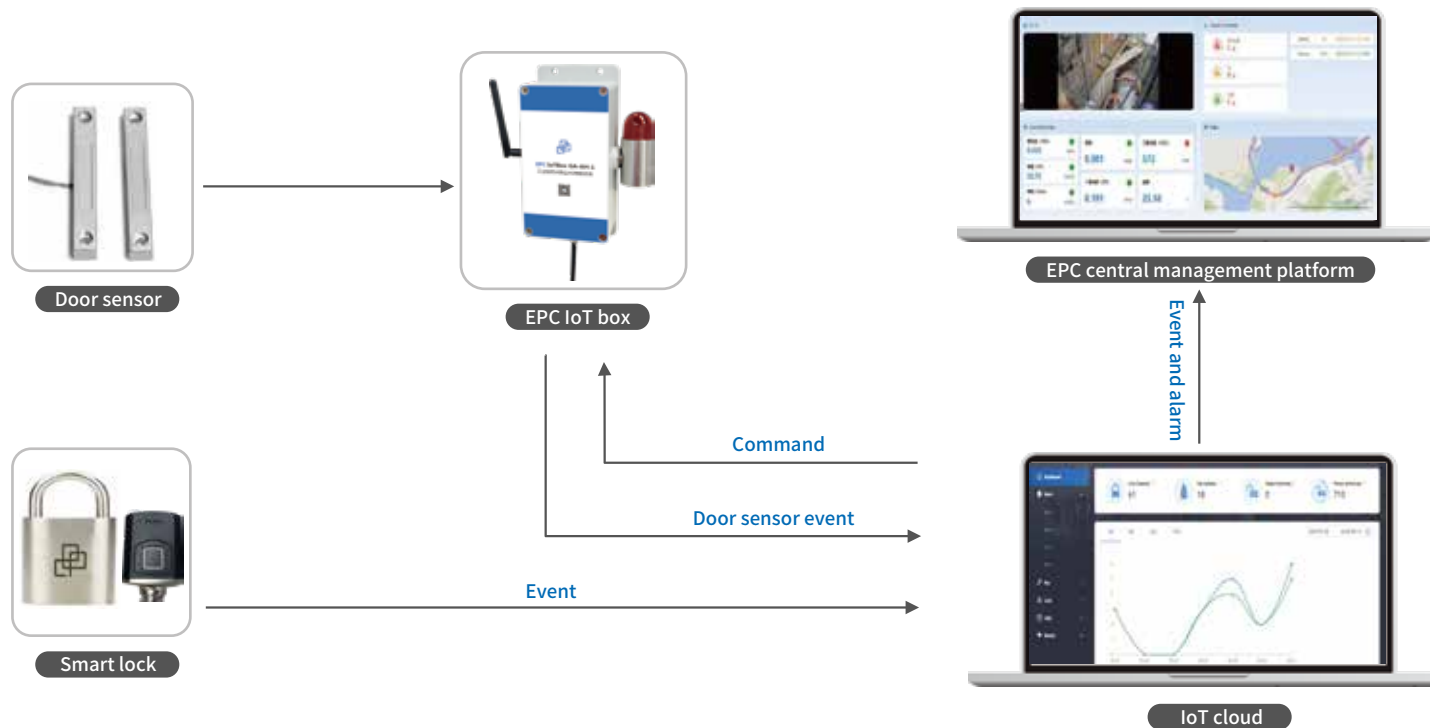
Smart lock: Biometric-enabled locking mechanism with IoT connectivity

Smart key: Bluetooth physical key with automatic data logging

Mobile APP: Role-based authorization platform with real-time alerts

IoT Boxes: Edge computing device for status monitoring and anomaly detection

System software: Centralized dashboard for data analytics and workflow automation



IoT Box



Battery -
Powered IoT Box



Externally
Powered IoT Box

Smart Electronic Key



Bluetooth Smart
Electronic Key



Smart Fingerprint
Electronic Key



Multifunctional
Electronic Key



Smart Key Cabinet

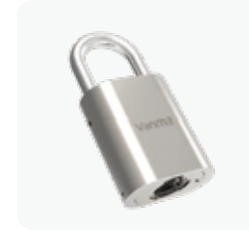


Smart Key Box
(10 keys)

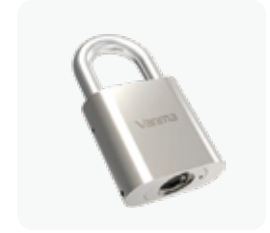


Smart Key Box
(15 keys)

Smart Locks



Smart 40 Padlock



Smart 50 Padlock



Smart Cabinet Lock



Smart Backpack
Lock Cylinder

GA1-AH-1

Battery - Powered IoT Box

EPC IoTBox GA1-AH-1

EPC IoT Box GA1-AH-1 is an industrial-grade edge computing device. It utilizes 4G network communication to monitor the door status (opening/closing) in real-time, detect unauthorized access attempts (e.g., lock-breaking, forced entry), and trigger alarms comprising over 90 dB audible alerts and strobe lights. The device is battery-operated with 12+ months of operational autonomy and integrates a built-in GPS module for daily geolocation reporting and real-time movement pattern tracking.



Main Features

- 3.3~4.2V Rechargeable Lithium Battery Powered
- Battery Capacity: 10000mAh
- Operating Time per Charge: >1 year
- Operating Environment: 0°C-75°C
- Supports power supply voltage monitoring, daily battery level reporting and low battery alerts via management platform
- Supports GPS & BeiDou dual-model single-frequency positioning
- 1 dry contact input with transistor trigger, enabling ultra-low power wake-up
- 1 controllable 12V 500mA output for driving external alarm devices
- 1 TTL serial port, controllable 3.3V output
- External pop-out 4G Nano SIM card
- Antenna uses SMA interface, allowing antenna replacement based on environment
- Micro switch for monitoring door status

Hardware Parameters

Function Item		Detailed Description
4G Module	Network Standard	Cat1 4G Universal Connectivity
	Network Bands	LTE-FDD:B1/B3/B5/B8 LTE-TDD:B34/B38/B39/B40/B41
Power Parameters		3.3~4.2V(10W)
Operating Environment	Operating Temperature	-0°C ~+75°C
	Operating Humidit	5%~95%RH(No Condensation)
Dimensions		120*81*65mm
GPS		Positioning Mode GPS,BDS Dual-mode

GB1-AH-1

Externally powered IoT Box

EPC IoTBox GB1-AH-1

EPC IoT Box GB1-AH-1 is an industrial-grade edge computing device. It utilizes 4G network communication to monitor the door status(opening/closing) in real-time, detect unauthorized access attempts(e.g., lock-breaking, forced entry), and trigger alarms comprising over 90 dB audible alerts and strobe lights. The device is battery-operated with 12+ months of operational autonomy and integrates a built-in GPS module for daily geolocation reporting and real-time movement pattern tracking.



Main Features

- Operating environment: -35°C to 75°C
- Provides alarm notifications via management platform
- Supports GPS & BeiDou dual-mode single-frequency positioning
- 1 dry contact input with transistor trigger, enabling ultra-low power wake-up
- 1 controllable 12V 500mA output for driving external alarm devices
- 1 TTL serial port, controllable 3.3V output
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4G Module	Network Standard	LTE Cat-1 4G Universal Connectivity
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Dimensions		120*81*65mm
GPS		Positioning Mode GPS,BDS Dual-mode

K01

Smart Electronic

WM-2000C-K01



One key opens 10,000 locks/ Lock & unlock records/Access control/National cryptographic algorithms/ Explosion-proof certification

Structural Features



Voice prompts



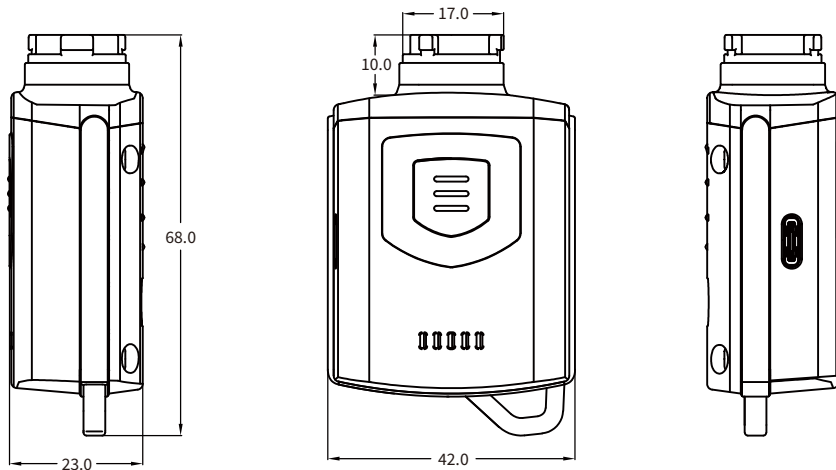
7 working modes



Low battery reminder



Standard Type-C Interface



Product Model	WM-2000C-K01
Working Indicator	Voice + Tri-color RGB Light Prompt
Working Modes	Idle, Collection, Initialization, Lock/Unlock, Event, Emergency, Blacklist
Safety Certification	Supports AES-256 wireless communication encryption and is compatible with national cryptographic algorithms
Access Control Management	Supports downloading 100 date ranges (YYYY-MM-DD), each corresponding to 100 time periods (HH-MM-SS)
Storage Capacity	60,000 records
Battery Capacity	6000mAh (5000 lock/unlock cycles)
Charging Time	2 hours
Low Battery Reminder	Red light flashes twice, accompanied by a voice prompt: "Low battery, please recharge."
Electrostatic Protection	8KV contact discharge protection/ 15KV air discharge protection
Operating Environment	Temperature (-20° to 70°), Humidity (20% to 97%)
Protection Grade	IP65
Explosion-proof Certification	Ex ib II CT4 Gb

FK04

Smart Fingerprint Key

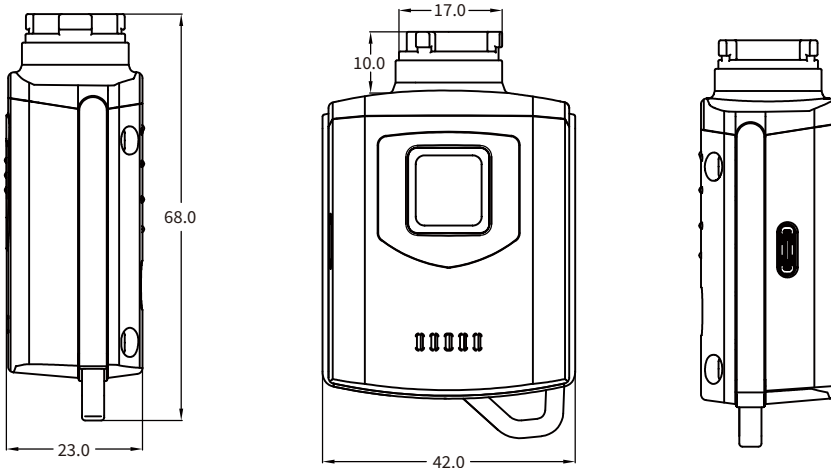
WM-2000C-FK04



One key opens 10,000 locks/ Lock & unlock records/Access control/National cryptographic algorithms/ Explosion-proof certification

Structural Features

- 
 Fingerprint verification
- 
 Voice prompts
- 
 7 working modes
- 
 Low battery reminder
- 
 Standard Type-C Interface



Product Model	WM-2000C-FK04
Working Indicator	Voice + Tri-color RGB Light Prompt
Working Modes	Idle, Collection, Initialization, Lock/Unlock, Event, Emergency, Blacklist
Safety Certification	Supports AES- wireless communication encryption and is compatible with national cryptographic algorithms
Access Control Management	Supports downloading 100 date ranges (YYYY-MM-DD), each corresponding to 100 time periods (HH-MM-SS)
Storage Capacity	60,000 records
Battery Capacity	6000mAh (5000 lock/unlock cycles)
Charging Time	2 hours
Low Battery Reminder	Red light flashes twice, accompanied by a voice prompt: "Low battery, please recharge."
Electrostatic Protection	8KV contact discharge protection/ 15KV air discharge protection
Operating Environment	Temperature (-20° to 70°), Humidity (20% to 97%)
Protection Grade	IP65
Explosion-proof Certification	Ex ib II CT4 Gb

EK05

Multifunctional Electronic Key

WM-2000C-EK05



One key opens 10,000 locks/ Lock & unlock records/Access control/National cryptographic algorithms/ Explosion-proof certification

Product Features

- Access Control Management** One key can open multiple locks depending on permissions. The lock/unlock time range can be set.
- Process Management** Lock/unlock time records are maintained, accompanied by documented process management.

Structural Features

Product Model	WM-2000C-EK05
Operating Status	Screen display + Voice prompts
Physical buttons	Numeric keys + Function keys
Fingerprint Capacity	100 sets
Wireless Communication	Bluetooth 5.0/4G
NFC Card Reader	13.56MHz
Encryption Algorithm	Support China's National Cryptographic Algorithms (SM2/SM3/SM4)
Record Storage	60,000 records
Battery Capacity	1800mAh (lock/unlock 10000 times)
Communication Interface	Standard Type-C interface
Electrostatic Protection	8KV contact discharge protection/ 15KV air discharge protection
Operating Environment	Temperature (-20° to 70°), Humidity (20% to 97%)
Protection Grade	IP65
Explosion-proof Certification	Ex ib II C T4 Gb



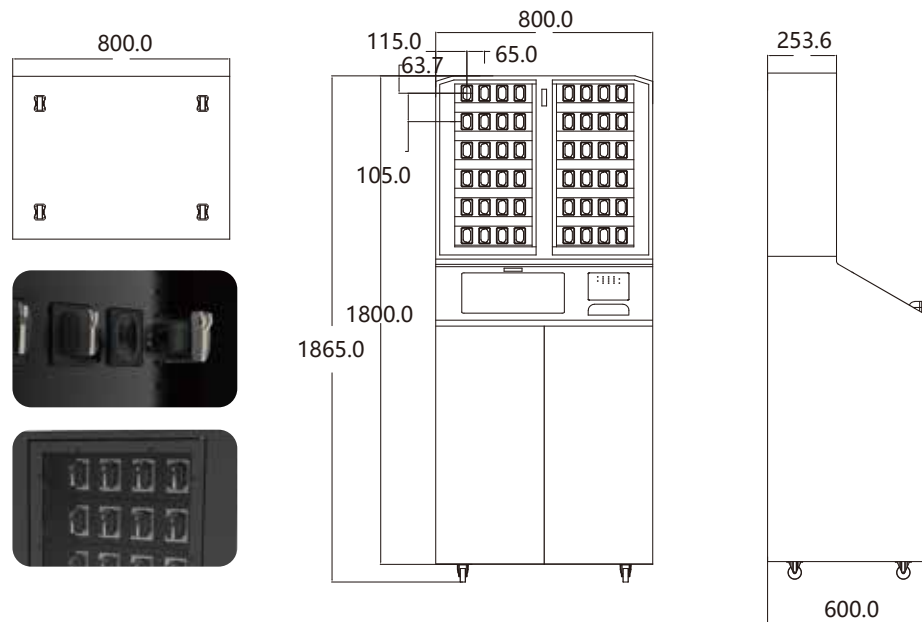
EKM

Smart Key Cabinet

WM-2000C-EKM



The smart key cabinet is designed for centralized management of smart electronic keys. It integrates with management platforms to enable multi-level authorization, record uploads, and automatic recharging. The system supports centralized control over the issuance and return of smart electronic keys. Additionally, the cabinet can be equipped with modules for facial recognition, fingerprint recognition, RFID card reading, and password verification, making it customizable to site-specific requirements in on-site control scenarios.



Product Feature

Face recognition	Network cable	Remote authorization
Fingerprint recognition	WiFi	Temporary authorization
IC card	Timeout alarm	Emergency authorization
Password	Return error alarm	Specific authorization

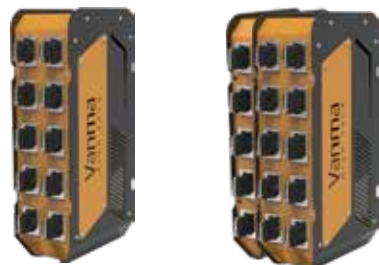
Structural Features

Capacity	16~160 (customizable)
Borrowing and returning method	IC card, fingerprint, face recognition and password
Operation screen	15-inch touch LCD screen (customizable)
Operating system	Android 11
Communication interface	Ethernet RJ45, WiFi
Prompts	Automatic recharging/Presence detection Communication/Authorization
Borrowing and Returning	Automatic key issuance by RBAC, automatic lock activation upon return, and automatic records uploading
Insertion cycle life	1 million times
Enclosure material	1.5mm cold-rolled steel plate
Surface treatment	Electrostatic powder coating
Door material	4mm acrylic, 1.5mm metal door
Installation method	Vertical (wall-mounted) optional
Structural dimensions	800mmx600mmx1800mm
Product weight	150kg
Working voltage	DC12V
Working environment	Temperature: -30°C~70°C Humidity: 5%-95%

EKB

Smart Key Box

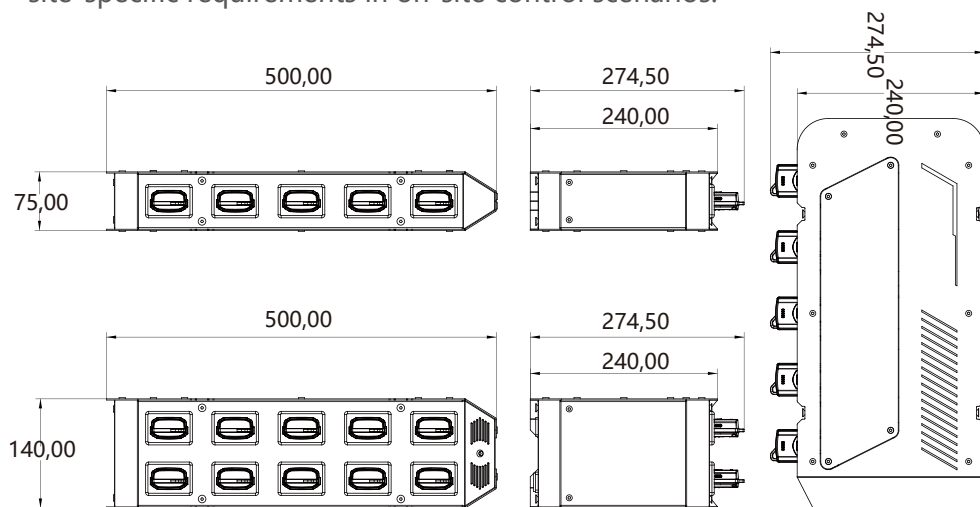
WM-2000C-EKB



10-Key Box

15-Key Box

The smart key box is designed for centralized management of smart electronic keys. It integrates with management platforms to enable multi-level authorization, record uploads, and automatic recharging. The system supports centralized control over the issuance and return of smart electronic keys. Additionally, the box can be equipped with modules for facial recognition, fingerprint recognition, RFID card reading, and password verification, making it customizable to site-specific requirements in on-site control scenarios.



One key opens 10,000 locks/ Lock & unlock records/Access control/National cryptographic algorithms/ Explosion-proof certification

Structural Features

- Automatic authorization
- Automatic unlocking
- Automatic charging
- Patented locking mechanism
- Lock operation records are automatically uploaded

Structural Features

Capacity	10-30 (combinable, main box 10 keys, sub box 5 keys)
Box material	1.5mm cold-rolled steel plate
Surface treatment	Electrostatic spray coating
Operating system	Android11
Communication interface	Ethernet RJ45
prompts	Automatic recharging/Presence detection Communication/ Authorization
Borrowing and returning	Automatic key issuance by RBAC, automatic lock activation upon return, and automatic records uploading
Insertion cycle life	1 million times
Operating voltage	DC12V
Product dimensions	501.5mm*240mm*(main box 143mm, sub box 77.5mm)
Product weight	Main box: 7.3Kg, sub box: 3.8Kg
Operating environment	Temperature (-20° to 55°), Humidity (10% to 90%)

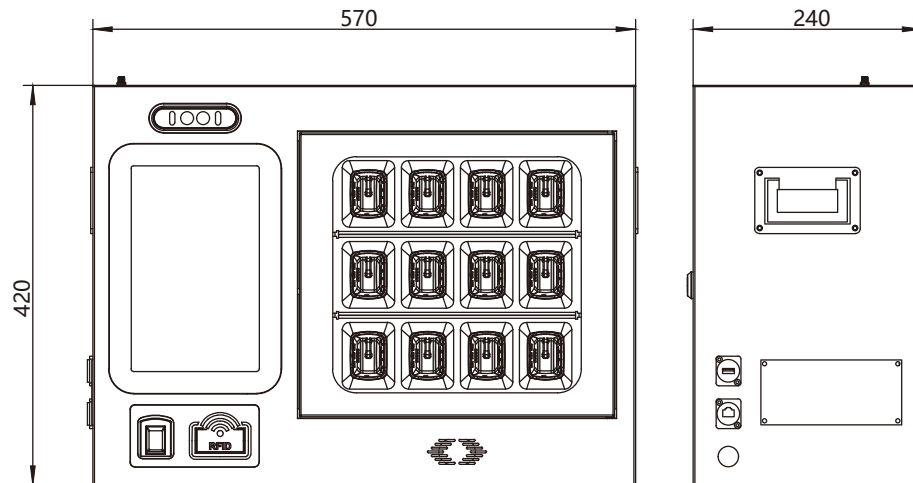
EKMW

Portable Smart Key Cabinet

WM-2000CT-EKMW8/12



The smart electronic key cabinet enables centralized management of electronic keys and connects to a management platform to support multi-level authorization, automatic record uploading, and automatic recharging. It provides unified control for key retrieval and return. The cabinet supports modules such as facial recognition, fingerprint recognition, RFID card identification, and password authentication, adapting to the diverse operational requirements.



Product Feature

- Facial recognition
- IC card
- Key return overdue alert
- Remote authorization
- Emergency authorization
- Fingerprint recognition
- Password
- Wired network
- WiFi
- Unauthorized return alert
- Temporary authorization
- Specific authorization

Structural Features

Number of key slots	8 slots / 12 slots
Key retrieval and return methods	IC card / Fingerprint / Face recognition / Password
Operating screen	10 inch touch LCD screen
Operating system	Android 11
Communication interface	Ethernet RJ45, WiFi
Indicators returning	Auto recharging, key-in-place, communication, authorization
Borrowing and returning	Automatic key issuance by RBAC, automatic lock activation upon return, and automatic records uploading
Key slot lifespan	1,000,000 cycles
Cabinet material	1.5 mm cold-rolled steel plate
Surface finishing	Electrostatic powder coating
Cabinet door material	4 mm acrylic, 1.5 mm metal door
Dimensions	570mmx240mmx420mm
Product weight	33kg
Operating voltage	DC12V
Operating environment	Temperature: -30°C to 70°C Humidity: 5% to 95%

L40

Smart 40 Padlock

WM-2000C-L40



One key opens 10,000 locks / Passive design of electronic lock core / Limit structure accurately determines switch status / Wireless communication data encryption / Security certification



304 Stainless Steel



Lock switch by authorization



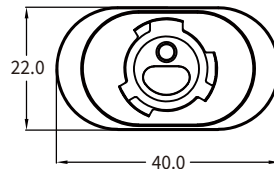
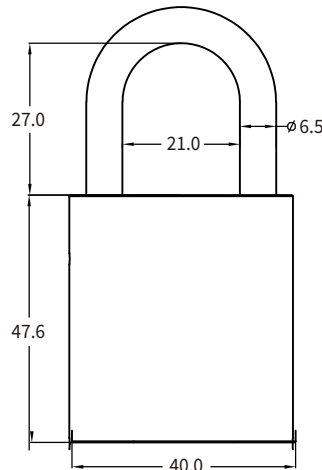
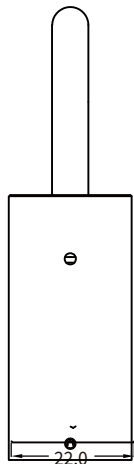
Event records



Blacklist records



Single contact power supply
Rotary + limit switch lock



Technical data

Product model	WM-2000C-L40
Lock body material	SUS304 Stainless Steel
Surface treatment	Stainless steel natural finish with brushed texture
Event records	60 entries
Blacklist key	100 keys
Lock weight	229g
Electrostatic protection	Multi-protection for overvoltage, overcurrent and electrostatic discharge
Operating environment	Temperature (-40°C to 70°C), Humidity (20% to 97%)
Protection rating	IP68
Explosion-proof certification	Ex ib II CT4 Gb

L50

Smart 50 Padlock

WM-2000C-L50



One key opens 10,000 locks / Electronic lock core passive design / Limit structure accurately determines switch status / Wireless communication data encryption / Security certification



304 Stainless Steel



Permission switch lock



Event records



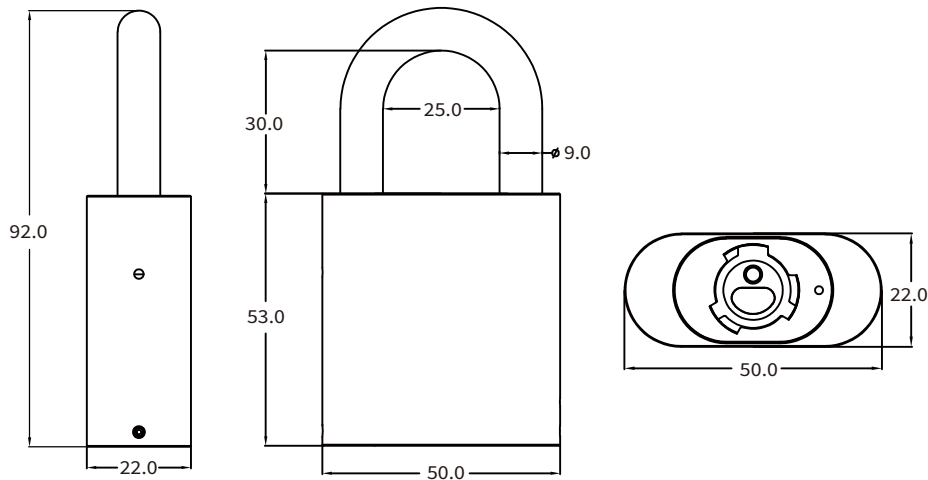
Blacklist records



Single contact power supply
Rotary + limit switch lock

Technical data

Product model	WM-2000C-L50
Lock body material	SUS304 Stainless Steel
Surface treatment	Stainless steel natural finish with brushed texture
Event records	60 entries
Blacklist key	100 keys
Lock weight	390g
Electrostatic protection	Multi-protection for overvoltage, overcurrent and electrostatic discharge
Operating environment	Temperature (-40°C to 70°C), Humidity (20% to 97%)
Protection rating	IP68
Explosion-proof certification	Ex ib II CT4 Gb



MS840

Smart Cabinet Lock



Zinc alloy



Lock switch by authorization



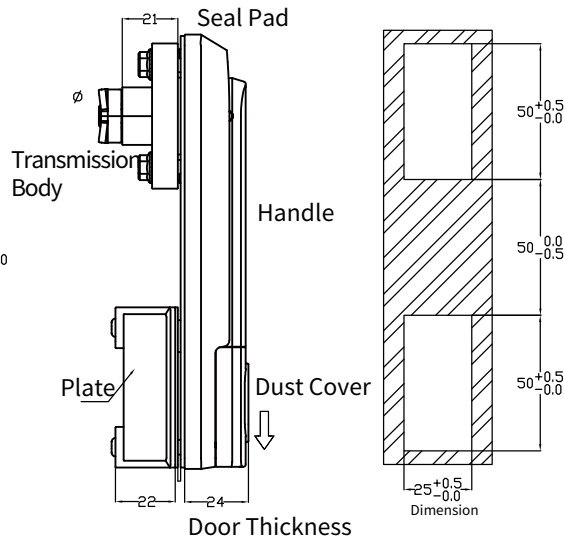
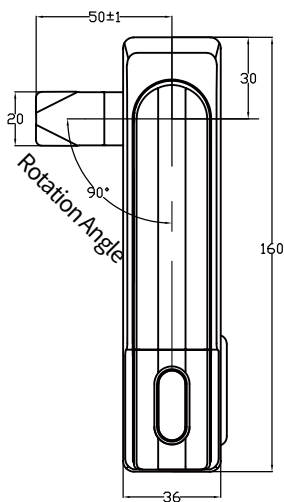
Event records



Blacklist records



Single contact power supply
Rotary + limit switch lock













One key opens 10,000 locks / Passive design of electronic lock core / Limit structure accurately determines switch status / Wireless communication data encryption / Security certification

Technical Data

Product model	WM-2000C-MS840
Lock body material	Zinc alloy
Lock core material	SUS304 Stainless Steel
Lock body structure	Universal for left and right doors
Event records	60 entries
Blacklist count	100 keys
Lock weight	628g
Electrostatic protection	Multi-protection for overvoltage, overcurrent and electrostatic discharge
Operating environment	Temperature (-40°C to 70°C), Humidity (20% to 97%)
Protection rating	IP68
Explosion-proof certification	Ex ib II CT4 Gb

Lock Accessories

	Lock mechanism transmission housing *1
	Lock mechanism transmission linkage *1
	Cabinet lock latching mechanism 50mm length H5 *1
	Spring leaf *1
	O-ring 15*2 (OD*CS) *1
	M4*25 Cross recess pan head screws *2
	M5*8 Cross recess flange head hex socket screws *1
	M5*10 Cross recess flange head hex socket screws *2
	MS840 Pressure plate housing *1
	MS840 Door panel sealing gasket *1

C02

Smart Backpack Lock Core

WM-2000CT-C02



One key opens 10,000 locks / Passive design of electronic lock core / Limit structure accurately determines switch status / Wireless communication data encryption / Security certification



Zinc alloy



Lock switch by authorization



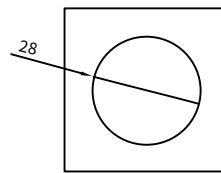
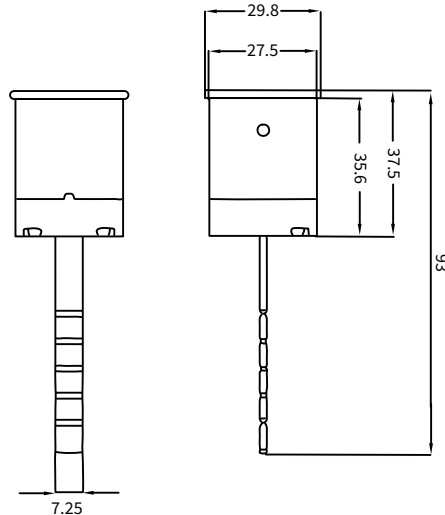
Event records



Blacklist records



Single contact power supply
Rotary + limit switch lock



Dimension



Technical Data

Product model	WM-2000CT-C02
Lock body material	Zinc alloy / Stainless steel
Surface treatment	Electroplating
Lock core material	SUS304 Stainless Steel
Electronic lock core	Multi-protection for overvoltage, overcurrent, and electrostatic discharge
Blacklist count	100 keys
Switch records	60 entries
Operating environment	Temperature (-40°C to 70°C), Humidity (20% to 97%)
Protection rating	IP68
Explosion-proof certification	Ex ib II CT4 Gb
Product weight	114g



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