MakeID

NFC Padlock

Brochure

SMART LOCK

Chongqing Pinsheng Technology Co., Ltd.

Product Overview

The NFC smart padlock, together with its dedicated NFC-enabled key, integrates low-power IoT technology and advanced digital encryption.It supports remote authorization, one-click unlocking, operation traceability, and unlocking record upload. A single key can unlock multiple locks, effectively addressing the limitations of traditional mechanical locks—such as difficult key management, ambiguous authorization, and lack of traceability—thereby ensuring the safe and reliable operation of facilities.

Application Scenario

Widely used for Optical Distribution Boxes (ODB), Power Distribution Cabinets(PDC), Switchgear, and others.

Optical Distribution Box(ODB)

Power Distribution Cabinet(PDC)

Key Features

Multiple Unlock Method

Use NFC module in smart phone to lock&unlock; one key supports multiple lock types.

Battery-free, Maintenance-Free Design

No wiring or battery replacement needed, minimizing maintenance costs.

Durability& Reliability

304 stainless steel housing with IP67 protection for reliable performance in harsh environments.

Offline Authorization

Access credentials are securely stored in the key, allowing operation without network connectivity.

Comprehensive Traceability

All lock and unlock events are recorded on app&pc software for real-time tracking.

Secure Authorization

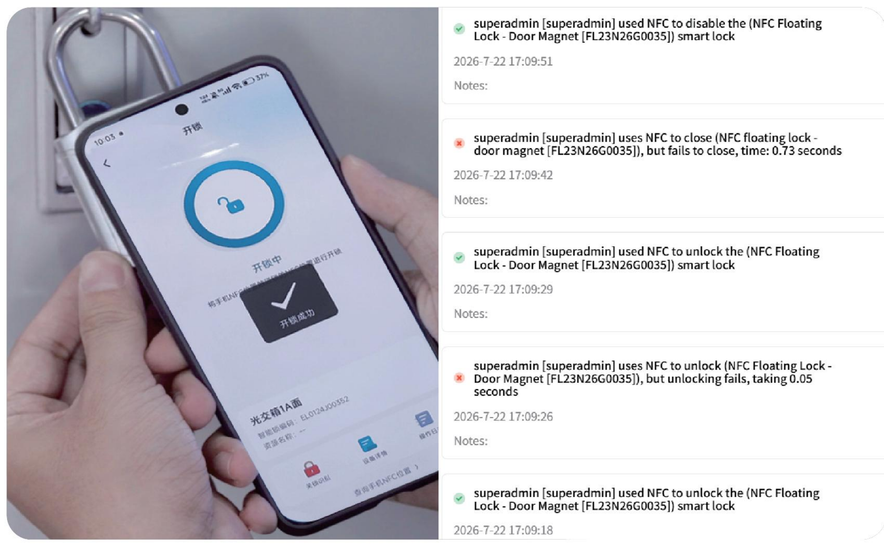
Digital encryption prevents unauthorized access and duplica-tion, role-based permissions reduce the risk of misoperation.

Practical Value

The lock management platform works in conjunction with smart locks to enable full-process traceability and prevent unauthorized duplication through digital encryption and remote authorization. Even in the event of network outages or system failures, locks can still be accessed quickly, reducing manual intervention, ensuring operational continuity, and enhancing the standardization and security.

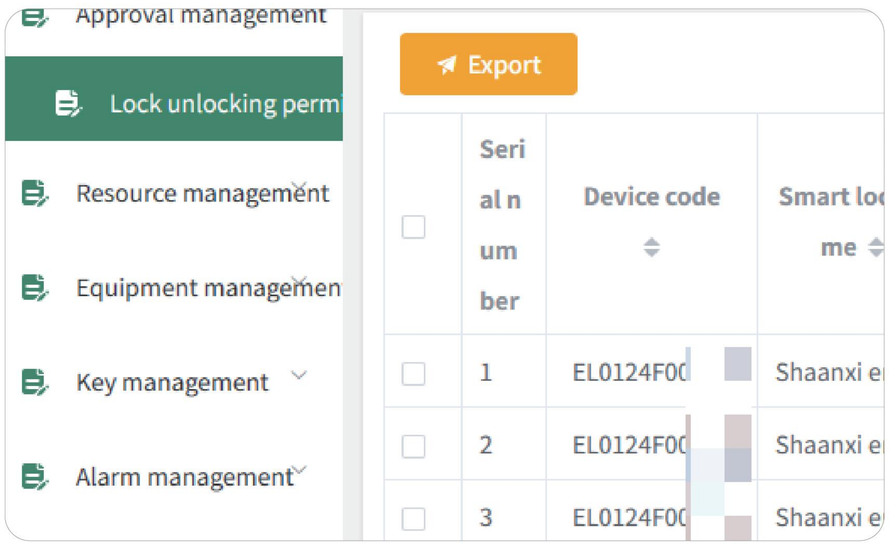
GIS-Based Visualization

Real-time visualization of lock status via GIS mapping, with one-click navigation and clear display.



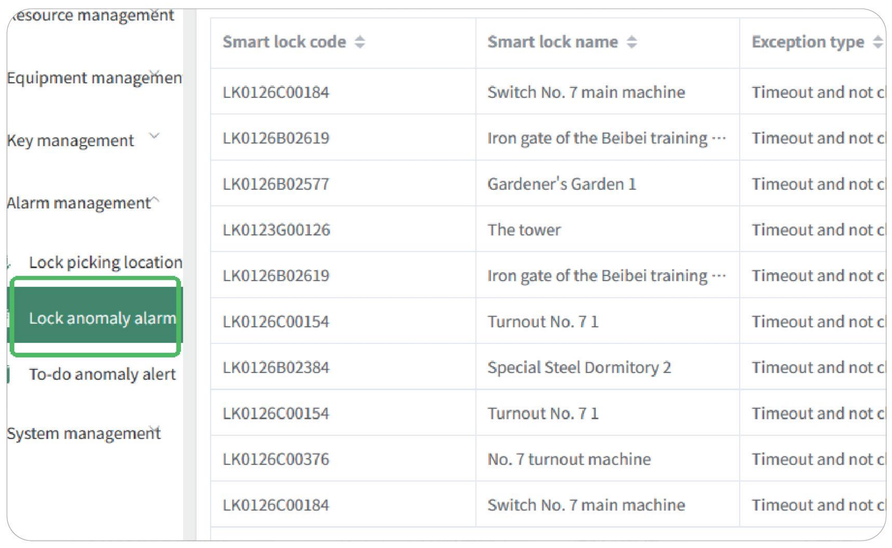
Operation Log Traceability

Automatic recording of all lock/unlock activities, ensuring transparency and full traceability.



Access Control Management

Flexible user permissions, including unlocking, locking, monitoring and management.



Real-Time Alerts

Issue alerts for abnormal conditions such as inactivity or location anomalies, send notifications via mobile app, platform interface, or SMS.

Product Specifications

Parameter	Specification	Picture
NFC Smart Padlock		
Model#	GSV60-N10	
Type	Padlock	
Dimensions	120 × 56 × 28 mm, Shackle Diameter φ8 mm	
Housing Material	304 Stainless Steel	
Communication Method	NFC wireless communication	
Unlocking Method	NFC touch-to-unlock	
Unlocking Time	2–5 s (depending on mobile device)	
Power Supply	Battery-free; powered via NFC module from smart phone	
Data Security	AES-128 encryption	
Protection Rating	IP67	
Operating Conditions	-20°C to +70°C, 10–95% RH (with condensing)	
Storage Conditions	-40°C to +70°C, 10–95% RH (with condensing)	
Flammability Rating	Non-metallic parts meet the V0 flame retardancy level	
NFC Smart Key		
Model#	ZKV30-N10	
Dimensions	65*53*21mm	
Housing Materia	Zinc Alloy + PC	
Communication Method	Bluetooth, USB interface	
Unlocking Method	NFC touch-based unlocking	
Unlocking Time	⩽ 3 s (NFC mode)	
Power Supply	450 mAh rechargeable lithium battery	
Charging Interface	USB TypeC charging time<3hours	
Battery Life	⩾ 500 NFC,unlocking operations per full charge	
Operating Conditions	⩾ 100 user credentials; ⩾ 1000 operation logs	
Authorization Methods	Offline(via phone APP or USB cable) real-time authorization(via Bluetooth)	
Flammability Rating	Non-metallic parts comply with V-0 (GB/T 2408-2021)	

Unlock the Full Value of Every Asset

Chongqing Pinsheng Technology Co., Ltd.

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