

Type-C Locks Empower Full-Site Lock Control for Substations



SYSTEM OVERVIEW

Centered on Type-C locks, Unitech builds a unified management system covering all-site locks, permission models, business logic and data. Through intelligent linkage and in-depth analysis, it enables real-time lock status monitoring, hierarchical permission control and automated business process closed-loop. Combined with big data analytics and risk warning, it significantly improves substation O&M safety and management efficiency, providing solid support for stable power system operation.

FUNCTIONAL FEATURES



Lock Device Management

Adopts Type-C passive lock cylinder with diverse lock styles, covering all lock control scenarios in substations. All locks are managed on a unified platform, enabling standardized and visual



Permission Management System

Integrates personnel, locks, areas, businesses, conditions and lock/unlock actions. Builds a universal lock control permission system for all scenarios, enabling refined authorization and dynamic management.



Business-Linked Unlocking

Supports semantic fetch and unified configuration for the system. Deeply binds "two tickets" (work order & operation order) processes with unlocking permissions to ensure all tasks comply with business logic. Unlocking records are automatically synced to O&M work orders, forming a complete traceable operation log chain.



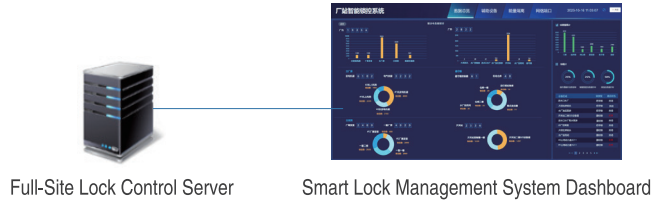
Data Management & Analysis

Full operation data storage meets cybersecurity compliance requirements. Big data analysis is available for high-frequency operation areas, personnel permission usage trends, etc., providing data support for management optimization.

SYSTEM COMPOSITION



Lock Control Platform



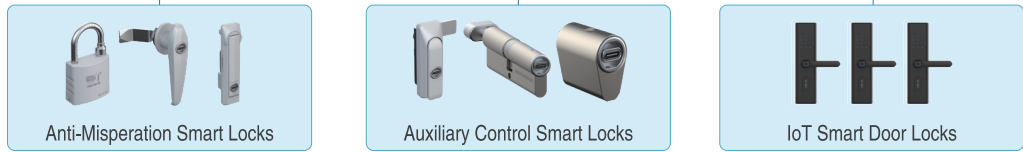
Centralized Control Applications



Lock Control Terminals



Smart Locks



SYSTEM FEATURES



- Embedded Type-C passive lock cylinders for anti-misoperation, auxiliary control and electromechanical locks, with unified unlocking interface standard. Supports dual-mode unlocking with smart key and mechanical emergency key, no external power required. Type-C smart key integrates power supply, communication, ID recognition, authorization and Bluetooth connectivity, enabling efficient lock control within authorized scope.
- Connected to a unified IoT platform, building a cloud-edge collaborative SaaS platform based on lock device attributes. Developed with microservice architecture, standardizing lock control functions and permission models across all domains to ensure flexible expansion and stable operation.
- Focuses on three core areas: power grid anti-misoperation lock control, one-key universal lock control, and anti-theft lock control. Builds a standardized lock control business system through business abstraction and in-depth refinement, supporting efficient deployment in multiple scenarios.

APPLICATION SCENARIO

