

BLOCK LOCK PRO

VERSATILE AND SECURE ON-SITE LOCK



The Block Lock Pro from Loxal Security is an advanced, cloud-connected digital gate lock that offers top-tier security and intelligent access control.

It is ideal for commercial and industrial environments where security and accessibility are critical, such as utilities facilities, logistics & retail parks, property management (including vacant and land), storage and compound facilities, and vehicle fleets.

Some key features include:

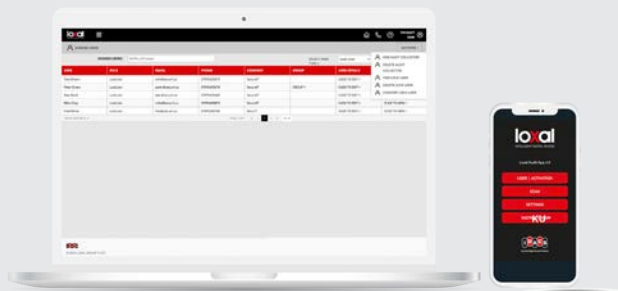
Cloud-based technology for managing access permissions remotely.

Advanced encryption to protect against unauthorised access.

Real-time monitoring and auditing, allowing administrators to track access events and manage users with ease.

Ease of installation and use, designed for seamless integration into a wide range of secure sites.

This makes the Block Lock Pro a robust solution for safeguarding critical areas while providing convenience for authorised personnel to access sites when needed.



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New device features:

8mm Polyformaldehyde Solid Plastic Precision Bearing Ball Buttons

- Buttons made from polyformaldehyde, a durable, non-corrosive, lightweight plastic, commonly placed under a keypad for smooth actuation and high durability. Non-rusting properties.

On-Device Emergency Power-Up Facility (No Battery Required)

- This feature allows the device to be powered up in emergencies without relying on a battery.

Anti-Stick Front Loading Button

- The device includes a front button designed to prevent sticking, ensuring a smooth and reliable press every time.

Higher Security Internal Locking Mechanism

- Enhanced internal locking system providing improved security against tampering or unauthorised access.

Multiple Alarm Integrations

- Supports various alarm systems for integrated security solutions, including:
 - Intelligent Videofied (Detect)
 - Vesta Alarms
 - Ajax Ready.
 - Vigileyez

New Fixing Plates for Temporary Swing Gates

- Updated fixing plates designed for easy installation on temporary swing gates, improving the portability and flexibility of the device.

Latest Firmware Version: V2.3

- The device is equipped with the latest software version, which includes bug fixes, security updates, and feature enhancements.

The Block Lock Pro has been further enhanced with a built-in emergency power-up function, which significantly boosts its reliability in critical situations. This new feature ensures that users can still access site even in the event of a power failure or a depleted battery. It allows for an on-site power-up, providing a practical solution to maintain functionality and prevent lockouts.

This enhancement is particularly useful in scenarios where immediate access is essential, such as during emergencies or when maintenance personnel need to access a site during power outages. By enabling continued access to secured areas regardless of power conditions, this feature adds an extra layer of convenience, security, and operational reliability to the Block Lock Pro, making it even more dependable for high-security environments like land and utilities, property management, and vehicle fleet operations.

BLOCK LOCK PRO

TECHNICAL SPECIFICATIONS

IDACS (Cloud-Based Code Management System)

IDACS enables cloud-based management of access codes for security products and key storage devices. This allows for real-time remote management, including the ability to add, modify, or delete access codes, and monitor the activity.

Loxal Audit App

The Loxal Audit App acts as a bridge between IDACS and the device and allows users to track and manage all activities related to the key safe, providing a comprehensive audit trail.

7-Digit Codes with 10 Million Combinations

The system generates 7-digit user codes offering ten million possible combinations, which enhances security by reducing the risk of unauthorised access through random code generation.

Permanent and Temporary User Codes

The ability to create both permanent and temporary codes offers flexibility. Permanent codes could be for regular users, while temporary ones can be issued for one-time access or short-term use, ideal for emergency access, tenants, staff, contractors or visitors.

Units Can Be Cloned

The ability to clone units means multiple units can be set up with identical temporary access code settings, which simplifies deployment across multiple locations.

Comprehensive Audit Trail

The system offers a comprehensive audit trail, ensuring that all interactions with the unit are recorded, allowing administrators to see who accessed the unit and when, which enhances accountability.

Standalone Power with up to 4 Years continuous Battery Life

With up to 4 years of battery life, the units are designed for long-term reliability. The standalone power feature ensures that the system remains operational even if the external power source is unavailable.

External and Internal Emergency Power Up

In case of power failure, both external and internal emergency power-up features ensure that users can still access the safe, adding an extra layer of reliability.

Audible Keys and LED Feedback

Audible keys and LED lights provide real-time feedback to the user, confirming key presses, code acceptance, and alarm pairing.

Audible Low Power Warning and Battery Monitoring in IDACS

An audible low power warning ensures users are alerted when the battery is running low, and the ability to view battery levels in the 'Loxal Audit App' and IDACS allows on-site and remote monitoring of battery health.

Simple Battery Replacement

Simple battery replacement minimises downtime, making it easier for users to maintain the system.

Alarm Integration

Ajax 'Ready'-Resideo 'Videofied'-Vigileyez by Webeye and Vesta Alarm Systems

All Loxal Products have compatibility with Ajax, Videofied, Vigileyez and Vesta. Integration with Alarm Systems adds a visual verification layer, enabling real-time monitoring and security response through alarm, video and tamper triggers.

Multiple Installation Methods

The product offers multiple installation methods, providing flexibility for different mounting surfaces and configurations, making it suitable for varied environments like railings, masonry, fencing, gates or other outdoor settings.

This product is a security-focused key and access card storage system that is a highly robust and secure solution designed for environments that require high protection. Here's a breakdown of the key security features:

Key and Access Card Storage

The product will store keys and access cards securely, ensuring that critical physical access items are protected when not in use.

Hardened, Drill-Proof Drawer

A hardened drill-proof drawer adds significant protection against physical attacks, making it highly resistant to drilling or tampering attempts. This is an important feature in high-security environments where physical break-ins may be attempted.

1.5m Retractor Cable for Key Retention

The inclusion of a 1.5-meter retractor cable helps with key retention, ensuring that the key remains attached to the unit and won't be carried off-site by mistake.

Sealed Unit

Designed for use in harsh environments, offering protection from weather, dust, or tampering. This is ideal for outdoor installations.

Secured by Design (Police Accreditation)

Secured by Design is a UK Police initiative that accredits security products that meet specific crime prevention standards. Being Police Accredited means this key safe meets stringent security requirements, adding a level of trust and assurance that it's built to resist common attack methods used in burglaries or theft attempts.

This combination of features makes this system ideal for high-security environments where both physical protection (via drill-proof materials, retractors, and tamper resistance) and compliance with security standards (Secured by Design, Sold Secure Gold) are critical. Whether installed in industrial sites, public buildings, or high-risk commercial settings, this system provides a comprehensive security solution.

The battery and performance specifications of the device you provided offer detailed insights into its power consumption, lifespan, and physical characteristics. Here's a breakdown:

Power Specifications (IDACS)

Battery Type: The device operates on 4 x Alkaline 1.5V AA cells, which are commonly available and easily replaceable.

Battery Life: The unit has a battery life of up to 4 years, depending on usage patterns.

Each use reduces battery life by approximately 8 hours. For example, 1,000 uses over 5 years will reduce the overall lifespan, while heavy usage of 6,000 uses over 1 year will significantly reduce it faster.

Battery monitoring is available via the app (likely the IDACS or Loxal Audit App), allowing users to keep track of battery health remotely.

Power Consumption Breakdown

Unlocking: During the unlocking process, the device draws 950mA for about 0.5 seconds, meaning unlocking takes a relatively large, but short, amount of power.

Sleep Mode: In sleep mode, the device is highly efficient, drawing only 40µA (microamperes), which helps in preserving battery life.

Key Press: Pressing a key draws about 1mA for approximately 0.5 seconds—a minimal power usage event.

Startup: During startup, the device draws 16mA for about 30 seconds, consuming more power while the device gets ready for use.

Data Transfer: During data transfer (like using the Loxal Audit App for scanning), the device draws 16mA consistently throughout the transfer process.

Operating Conditions

Temperature Range: The device is designed to operate in a wide range of temperatures, from -15°C to 50°C, making it suitable for outdoor environments or areas with varying climates.

Material and Build Quality

Constructed from steel, stainless steel, Nirosta, and hardened steel, the device is highly durable and resistant to tampering and environmental wear.

Finish: The black powder-coated finish gives it both a sleek appearance and protective coating, with RAL colour options available for custom aesthetic requirements.

Lock Type: It uses a combination of solenoid, hardened, and micro-switch lock mechanisms, providing a secure, tamper-resistant locking system with electronic control.

Physical Dimensions:

Device Size: W140mm, H140mm, D45mm.

Weight: The device weighs 2.5 kg, which is substantial enough to resist tampering but still manageable for installation on various surfaces.

Summary

This device offers high durability, long battery life, and efficient power consumption while maintaining strong security features. The built-in power monitoring via the app adds a layer of convenience, and the ability to operate in a wide temperature range makes it versatile for different environments. The high-quality materials used (steel, stainless steel, hardened components) ensure robustness, while the power consumption characteristics support long-term use.

Installation and Mounting

The BLP can be installed in several ways.

Use the bespoke fixing plates to install.

Coach bolt from the rear of any gate or fenceline or hoarding.

*Please contact the supplier for more information

The key safe should always be installed following the manufacturer's instructions closely.

The Block Lock Pro from Loxal Security is designed for flexibility and ease of installation, making it suitable for a variety of secure environments. Its installation and mounting options ensure it can be integrated into different types of gates, enclosures, and access points. Here are some key aspects of its installation and mounting options:

Versatile Mounting Options

Surface Mounting: The Block Lock Pro can be surface-mounted on gates, doors, or barriers, making it easy to install on existing structures without requiring any modifications.

Post or Gate Mounting: Specifically designed brackets are available for secure attachment to gateposts or frames, allowing for a sturdy installation on typical access gates or entry points.

For a temporary swing gate installation, the Block Lock Pro from Loxal Security offers a secure and flexible locking solution that can easily be adapted for temporary setups while maintaining high security. Bespoke fixings required.:

1. Gate Setup

Temporary swing gates are often installed at construction sites, event spaces, or areas requiring controlled but temporary access. These gates are typically mounted on moveable posts and can be easily assembled or disassembled as needed.

Freestanding Gate Posts: For maximum portability, consider using freestanding gate posts with heavy bases or anchored into the ground using temporary footings. This provides a stable foundation for the swing gate without requiring permanent fixtures.

2. Mounting the Block Lock Pro

Portable Mounting Brackets: The Block Lock Pro can be attached to the temporary gate using portable or removable brackets. These brackets are specifically designed to allow easy installation on gates or posts without requiring permanent modifications.

3. Multiple Surface Compatibility

Metal and Wooden Gates/Doors: The Block Lock Pro is compatible with both metal and wooden surfaces, giving it flexibility across different site infrastructures.

Chain-Link Fencing: For sites using chain-link fencing, special mounting kits allow the Block Lock Pro to be securely attached without compromising the lock's integrity or the fence's structure.

4. Easy DIY or Professional Installation

Pre-drilled Mounting Holes: The device comes with pre-drilled mounting holes and hardware for straightforward installation. This feature minimises installation time and complexity, making it suitable for either DIY installation or professional installers.

Minimal Tools Required: Installation requires standard tools, and Loxal Security provides detailed installation guides to assist users through the process.

5. Portable and Removable Options

For temporary or semi-permanent installations, the Block Lock Pro can be mounted using portable brackets, allowing for easy removal and relocation when necessary, making it a great solution for sites with changing access requirements.

6. Weather-Resistant Design

The lock is designed to withstand outdoor environments, with weather-resistant housing to protect it from elements like rain, dust, and extreme temperatures, ensuring long-term durability and consistent performance.

With these flexible mounting options, the Block Lock Pro is highly adaptable, catering to a wide range of applications from permanent installations to more temporary, mobile solutions, without compromising on security or ease of use.

Local Bluetooth Connectivity with Loxal App

The Block Lock Pro (BLP) leverages local Bluetooth connectivity to securely communicate with the device through the Loxal App. Here's how this system works and what it entails:

How the Bluetooth Connectivity Works:

Data Transfer: The Loxal App acts as a bridge between the cloud (IDACS) and the BLP device using a secure localised Bluetooth connection. When you're within Bluetooth range of the device, the app securely connects and transfers data.

Code Management: Through the app, users can:

- Add new permanent codes to the device.

- Delete user codes that are no longer needed.

- Access a comprehensive audit trail, showing all interactions with the key safe, including when it was accessed and by whom.

Battery Level and Time Synchronisation:

During each data transfer, the app will also:

- Check the battery level of the key safe, ensuring you can monitor battery life remotely and take action if it's running low.

- Sync the device's time, which is essential for accurate timestamping of activities in the audit log. Proper time synchronisation ensures that all data, such as access records, are correctly logged and reported.

Security Considerations:

The local Bluetooth connection is secure, meaning data exchanged between the app and the device is encrypted to prevent unauthorised interception or tampering.

By using Bluetooth for localised interactions, the system avoids the need for constant cloud connectivity, thus maintaining data security and saving power when in idle or sleep mode.

Convenience:

This system provides the convenience of remote key management while ensuring that all critical updates (like code changes and battery status) are handled seamlessly whenever the user is near the device.

No need for physical keys or manual interventions—updates are conducted electronically via the app, improving ease of use and minimising human error.

This local Bluetooth connectivity feature enhances security, convenience, and overall device management by making it easy to control and monitor the BLP without needing direct cloud access at all times. Would you like more information on how this system integrates with your broader security setup or assistance with setting up the app?

It seems like the local Bluetooth connectivity feature of the Block Lock Pro (BLP) could offer substantial benefits for your security management, especially when it comes to easy and secure control. If you'd like more information, here are two key areas we can explore further:

1. Integration with Your Broader Security Setup

If you're managing multiple security components (e.g., alarms, video surveillance, or other access control systems), we can discuss:

- How the Block Lock Pro integrates with other systems like the Ajax alarm system or the Resideo VideoGuard Alarm mentioned earlier.

- How the Loxal App can fit into your existing infrastructure and workflows, especially if you're already using cloud-based management tools.

- Any automation possibilities, such as triggering alarms when the Block Lock is accessed, or integrating the audit trail data with your security logs.

2. App Setup and Usage

If you're new to the Loxal App, I can assist with:

- Setting up the app for secure communication between the BLP and your phone/tablet via Bluetooth.

- A guide on how to add/delete user codes, monitor battery life, and access audit trails using the app.

- Best practices for managing security permissions within the app, such as assigning temporary or permanent codes to different users.

IDACS Software Overview (Intelligent Digital Access Control System)

The IDACS (Intelligent Digital Access Control System) is a highly secure, cloud-based platform that allows for seamless management and control of Loxal products, including the Block Lock Pro (BLP). Here's a detailed breakdown of its key features and benefits:

Key Features of IDACS

Cloud-Based Software Platform

Secure, Scalable, and Supported: IDACS is a cloud-based solution hosted on Microsoft Azure App Services, which is ISO 27001 certified, ensuring that it meets international security standards for data protection and management.

Encrypted: All communication and data between the app and the cloud are encrypted, ensuring that user codes, audit trails, and any other sensitive data remain protected from unauthorised access.

Online Code Management

Remote Code Management: IDACS allows users to issue, manage, and delete access codes remotely, providing ultimate flexibility in controlling who can access the system.

Daily, weekly, monthly, or permanent access codes can be issued, making it easy to accommodate a variety of access needs.

Codes can be created for temporary users, such as contractors or maintenance personnel, or permanent users, like staff members.

Audit Trail & Data Retrieval: The system automatically logs and retrieves a full audit trail, recording every access event. This ensures compliance and accountability by tracking who accessed the device and when.

The audit trail can be valuable for analysing access patterns, security breaches, or incidents, and for overall asset management.

Bespoke Customization

IDACS is customizable to meet specific industry needs. Whether it's creating specialised workflows or integrating with other systems, the platform can be tailored to fit your operational requirements.

Scalable: The software is designed to be scalable, making it future-proof as your business or asset portfolio grows. This ensures you can continue to use the platform as more units are added without performance issues or security risks.

Integration and Compatibility

Compatible with Office 365: IDACS integrates smoothly with Microsoft Office 365, offering additional flexibility for businesses that already use this suite. This compatibility helps with user management, scheduling, and even using Office 365 tools for data analysis.

Seamless Loxal App Integration: When combined with the Loxal App, users can manage codes, check battery levels, and retrieve audit data. This seamless integration ensures users can manage their key safes from both the cloud and locally via Bluetooth when needed.

Security and Hosting on Microsoft Azure

The Microsoft Azure hosting ensures that IDACS benefits from world-class security, uptime, and reliability. Azure's ISO 27001 certification also guarantees that the platform complies with strict information security management standards.

With the end-to-end encryption employed by the system, any data or code transmitted through the platform is secured against potential cyber threats.

Summary of IDACS Benefits

Security: Built on secure Microsoft Azure infrastructure with encryption to protect user codes and audit data.

Remote Control: Easily issue, modify, or delete codes remotely, and retrieve comprehensive audit trails from anywhere.

Customization & Scalability: Customizable to meet specific industry needs and scalable for future growth.

Integration: Compatible with Office 365, allowing for streamlined management of users and assets.

Support: Fully supported and adaptable for future upgrades, keeping it aligned with the latest technologies.

This software platform is designed for efficiency, flexibility, and security, making it an excellent choice for managing Loxal's digital access systems.

Loxal Device Compatibility with Vesta Alarms, Vigileyez, Ajax 'Ready', and Videofied Alarm Systems

Loxal devices, including key safes like the Block Lock Pro (BLP), are designed to integrate seamlessly with a wide range of alarm systems such as Vesta, Vigileyez, Ajax 'Ready', and Videofied. These integrations enhance security by providing additional functionalities.

Key Features of Integration

1. Arm/Disarm Functionality

Automatic Arming/Disarming: When an authorised user accesses the Loxal device (e.g., BLP), the connected alarm system can be set to automatically disarm. Once access is complete and the safe is closed, the system can re-arm, ensuring the premises are protected after the key retrieval or return.

2. Tamper Alerts

Tamper Detection: The devices are equipped with tamper protection mechanisms. If someone tries to interfere with the device or force entry, the connected alarm system will:

Trigger an alert.

Notify security personnel or send instant alerts to connected devices.

3. Polling

Polling Features: The system uses polling to maintain communication with the alarm system, continuously checking the status of the device.

This ensures that both the Loxal device and the alarm system are synchronised and operational at all times.

Real-time monitoring can identify issues like device failure or communication loss, triggering a response.

Benefits of These Alarm System Integrations

Enhanced Security: Integration with systems like Vesta, Vigileyez, Ajax, and Videofied ensures that any unauthorised attempts to access the Loxal device result in immediate alerts and responses.

Streamlined Operations: Automatically managing the alarm status (arming/disarming) based on access events simplifies operations, particularly in high-security or frequently accessed areas.

Continuous Monitoring: Polling ensures a continuous check of the system's health and immediate notification of any tampering or technical issues.

This broad compatibility with popular alarm systems makes Loxal devices versatile and ideal for integrating into advanced security infrastructures.



Additional Support

For more information on integrating your Loxal device with any of these alarm systems, contact your supplier.

If you need technical support or assistance in setting up the integrations, you can reach Loxal technical support at info@loxalsecurity.com or 08009172994.

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