Lenel LNL-X2220

Lenel LNL-X2220 Intelligent Dual Reader Controller User Manual

Model: LNL-X2220

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1. Introduction

The Lenel LNL-X2220 Intelligent Dual Reader Controller (IDRC) is a robust solution designed for integrating one or two doors into an OnGuard access control system. This controller offers direct Ethernet connectivity to the OnGuard server, maintaining high security and modularity. It supports expansion through additional I/O and reader interface modules via its downstream port. The LNL-X2220 is scalable for various access control applications and ensures continued local functionality even during communication loss with the server.

Key features include 6 MB of non-volatile flash memory, battery-backed storage for 50,000 events, configurable Data at Rest encryption, and support for up to sixteen badge formats. It also provides enhanced anti-passback capabilities and supports up to 32,000 access level permissions.

2. Setup and Installation

Proper installation of the LNL-X2220 is crucial for optimal performance and security. This section outlines the general steps for physical installation and initial configuration.

2.1 Physical Installation

Mount the LNL-X2220 controller in a secure, dry location, away from direct sunlight and extreme temperatures. Ensure adequate ventilation. Connect power according to local electrical codes and the device specifications. Wiring for readers, door contacts, and other I/O devices should be performed by qualified personnel.



Figure 1: Front view of the Lenel LNL-X2220 Intelligent Dual Reader Controller, showing its compact design and various connection points.

2.2 Network Connectivity

Connect the LNL-X2220 to your network via an Ethernet cable. The controller supports DNS device naming through DHCP extended commands for simplified network integration. Ensure the network connection is stable and secure for reliable communication with the OnGuard server.

2.3 Initial Configuration

Upon initial power-up, the controller will attempt to establish communication with the OnGuard server. Refer to the OnGuard system documentation for detailed steps on adding and configuring the LNL-X2220 within the software. Firmware updates can be performed in the background, ensuring the device operates with the latest features and security enhancements.

3. Operation

The LNL-X2220 functions as an intelligent interface between access control readers and the OnGuard system, managing door access and security events.

3.1 Access Control Management

The controller supports up to two readers directly and can manage up to 32,000 access level permissions. It features enhanced anti-passback capabilities to prevent unauthorized re-entry. The system processes badge formats (up to sixteen supported) and biometric templates for OSDP Biometric and legacy Bioscrypt readers.

3.2 Event Handling and Storage

The LNL-X2220 includes battery-backed, non-volatile storage for up to 50,000 events. This ensures that all access attempts, alarms, and system events are recorded, even in the event of a power loss or communication interruption with the server.

3.3 Offline Functionality

In the event of a communication loss with the OnGuard server, the LNL-X2220 is designed to continue nearly all local functionality unimpaired. This includes processing access requests based on its stored access levels and event logging, ensuring continuous security until the server connection is restored.

4. Maintenance

Regular maintenance ensures the longevity and reliable operation of your LNL-X2220 controller.

4.1 Firmware Updates

Firmware for the LNL-X2220 is stored in flash memory and supports background downloads of updates. It is recommended to keep the firmware updated to benefit from the latest security patches, features, and performance improvements. Consult your OnGuard system administrator for scheduling and performing firmware updates.

4.2 Data Security

The controller offers a configurable option for Data at Rest encryption, enhancing the security of stored information. Ensure this feature is configured according to your organization's security policies.

4.3 Environmental Considerations

Periodically inspect the controller and its connections for any signs of wear, damage, or environmental stress. Keep the area around the controller clean and free from dust and debris to ensure proper heat dissipation.

5. Troubleshooting

This section provides basic troubleshooting steps for common issues. For more complex problems, contact Lenel technical support.

- **No Power:** Verify that the power supply is connected correctly and providing the specified voltage. Check circuit breakers or fuses.
- **No Network Connectivity:** Ensure the Ethernet cable is securely connected to both the controller and the network switch. Check network status indicators on the device. Confirm network settings (IP address, subnet mask, gateway) are correct.
- **Reader Not Responding:** Check reader wiring and ensure it is correctly connected to the controller. Verify reader configuration within the OnGuard system.

- **Access Denied (Unexpectedly):** Confirm the user's access level permissions are correctly configured in the OnGuard system. Check the event log on the controller for specific denial reasons.
- **Communication Loss with Server:** Verify network connectivity between the controller and the OnGuard server. Check server status and network infrastructure. The controller should continue local operations during this time.

If these steps do not resolve the issue, gather all relevant information (error messages, LED status, recent changes) and contact Lenel technical support.

6. Specifications

The following table details the technical specifications for the Lenel LNL-X2220 Intelligent Dual Reader Controller.

Feature	Specification
Brand	Lenel
Model Name	LNL-2220
Model Number	LNL-X2220
Connectivity Technology	Ethernet
Hardware Interface	Ethernet
Product Dimensions (L x W x H)	6"L x 5"W x 1"H
Data Transfer Rate	6 Megabits Per Second
Slot Count	2
On-board Flash Memory	6 MB
Event Storage	50,000 events (battery-backed, non-volatile)
Access Level Permissions	Up to 32,000
Badge Formats Supported	Up to 16
UPC	072632855396
ASIN	B07Z8H72DM

7. Warranty and Support

7.1 Warranty Information

The Lenel LNL-X2220 Intelligent Dual Reader Controller is covered by a manufacturer's warranty. For specific terms, conditions, and duration of the warranty, please refer to the official documentation provided by Lenel or contact Lenel customer service directly. Keep your proof of purchase for warranty claims.

7.2 Technical Support

For technical assistance, installation guidance, or troubleshooting beyond the scope of this manual, please contact Lenel technical support. Have your product model number (LNL-X2220) and any relevant system information ready when you

call or email.

Note: Lenel's official website or product packaging typically provides the most current contact information for support.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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