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Lenel LNL-1300-S3

Lenel LNL-1300-S3 Single Reader Interface Module Series 3 User Manual

Model: LNL-1300-S3

1. Introduction

The Lenel LNL-1300-S3 Single Reader Interface (SRI) module is designed to integrate access control card readers, keypads, or readers with keypads into a comprehensive security system. This module supports various communication protocols, including Wiegand Data1/Data0, Supervised or Unsupervised F2F, and Clock/Data. It also supports the bidirectional RS-485 Open Supervised Device Protocol (OSDP).
The LNL-1300-S3 facilitates secure and flexible access control by supporting multiple card formats and providing essential features for door management. This manual provides detailed instructions for the proper installation, operation, and maintenance of your LNL-1300-S3 module.

2. Setup and Installation

Proper installation is crucial for the reliable operation of the LNL-1300-S3 module. Ensure all power is disconnected before beginning installation.

2.1 Power Requirements

The module operates on a **12 or 24 VDC** power supply. Verify your power source matches these requirements before connecting.

2.2 Reader Connections

The LNL-1300-S3 supports a variety of reader types. Connect your access control reader or keypad using the appropriate terminals for Wiegand Data1/Data0, Supervised or Unsupervised F2F, or Clock/Data communication. For OSDP-compatible readers, use the RS-485 connection.

2.3 Relay Outputs

The module features two Form-C relay outputs:

- One **5 A door strike relay** for controlling door locks.
- One **1 A auxiliary relay** for additional control functions.

2.4 Input Monitoring

The module includes inputs for door contact monitoring (open or closed, supervised or non-supervised) and a REX (Request to Exit) push-button monitor (supervised or non-supervised).

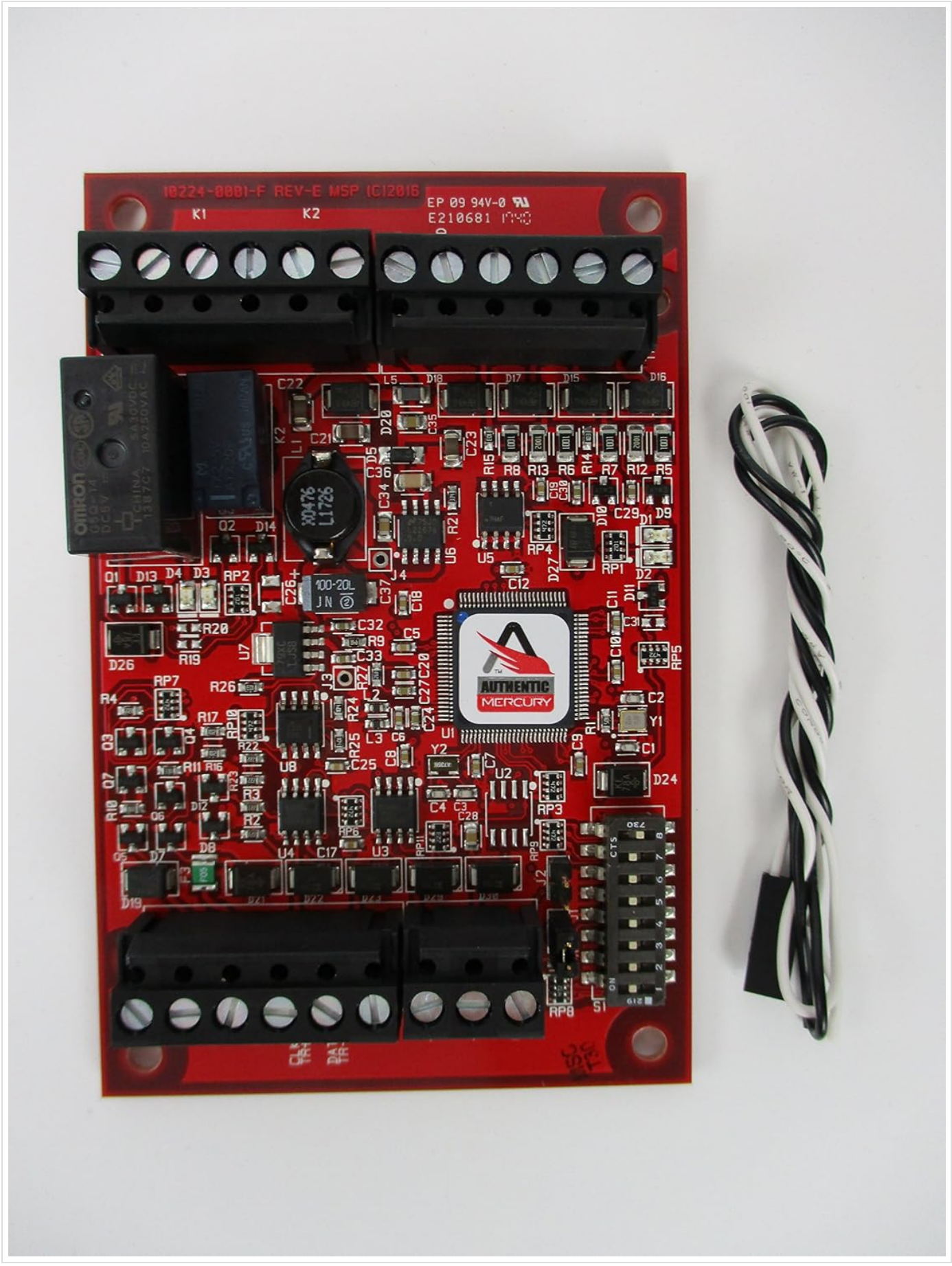


Figure 1: Front view of the LNL-1300-S3 module. This image displays the main electronic components, including the Authentic Mercury

chip, and the various terminal blocks for power, reader, and relay connections. The model number LNL-1300-S3 is visible on the board.



Figure 2: Back view of the LNL-1300-S3 module. This image highlights the regulatory compliance markings such as RoHS, UL, FCC, and CE. A critical warning label states: "Incorrect connect may result in damage." The serial number 2007569 is also visible.

Warning: As indicated on the module (Figure 2), incorrect connections may result in damage to the device or

connected equipment. Always refer to the wiring diagrams provided in the full installation guide for specific connection details.

3. Operating Instructions

Once installed and powered, the LNL-1300-S3 module operates as an interface between your access control system and the connected reader(s).

3.1 Card Format Support

The module supports up to **16 different card formats**, including issue codes for both magnetic and Wiegand card formats, allowing for broad compatibility with various access credentials.

3.2 Offline Access Modes

The LNL-1300-S3 supports lock, unlock, and facility code offline access modes on all connected readers. This ensures basic access control functionality even if communication with the main controller is temporarily interrupted.

3.3 OSDP Features

For OSDP-compatible readers, the module supports advanced features such as **biometric template transfer** and **Secure Channel encryption**, enhancing security and functionality for biometric and high-security applications.

4. Maintenance

The LNL-1300-S3 module is designed for reliable operation with minimal maintenance. Regular checks can help ensure continued performance.

4.1 Firmware Updates

The module features **downloadable firmware**, allowing for updates to improve functionality, address issues, or add new features. Refer to the manufacturer's website or your system administrator for information on available firmware updates and the update procedure.

4.2 Physical Inspection

Periodically inspect the module and its connections for any signs of damage, loose wiring, or dust accumulation. Ensure all connections are secure.

5. Troubleshooting

If you encounter issues with your LNL-1300-S3 module, consider the following troubleshooting steps:

- **No Power:** Verify the 12 or 24 VDC power supply is correctly connected and providing the specified voltage. Check power cables and fuses.
- **Reader Not Responding:** Ensure the reader is correctly wired to the module according to its communication protocol (Wiegand, F2F, OSDP). Check for loose connections.
- **Door Strike Not Activating:** Confirm the 5 A door strike relay is correctly wired and receiving commands from the access control system. Check the strike's power supply.
- **Communication Issues:** Verify network connections to the main access control panel. For OSDP, ensure RS-485 wiring is correct and termination resistors are properly set if applicable.

- **Incorrect Connect Warning:** As noted in Figure 2, incorrect connections can cause damage. If you suspect incorrect wiring, power down the module immediately and re-verify all connections against the official wiring diagrams.

If problems persist after performing these checks, contact technical support.

6. Specifications

Feature	Specification
Model Name	LNL-1300-S3
Power Supply	12 or 24 VDC
Reader Support	Data1/Data0, Clock/Data, Supervised/Unsupervised F2F, OSDP-compatible RS-485
Relay Outputs	Two Form-C relays (5 A door strike, 1 A auxiliary)
Card Formats	Up to 16 different formats, including issue codes
OSDP Features	Biometric template transfer, Secure Channel encryption
Firmware	Downloadable
Inputs	Door contact (supervised/non-supervised), REX push-button (supervised/non-supervised)
Manufacturer	LENEL
UPC	670875921399

7. Warranty Information

The Lenel LNL-1300-S3 module is covered by a **Manufacturer's Warranty**. For specific terms, conditions, and duration of the warranty, please refer to the documentation provided with your purchase or contact Lenel customer service directly.

8. Technical Support

For technical assistance, troubleshooting beyond the scope of this manual, or warranty claims, please contact your authorized Lenel dealer or Lenel customer support. Have your product model number (LNL-1300-S3) and serial number (e.g., 2007569) ready when contacting support.

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