Hikvision DS-K2601

HIKVISION DS-K2601 Network Access Controller User Manual

Model: DS-K2601

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of the HIKVISION DS-K2601 Network Access Controller. Please read this manual thoroughly before using the product to ensure correct and safe operation.
The DS-K2601 is a network access controller designed for secure and efficient management of access points. It features TCP/IP network communication with a self-adaptive network interface, encrypted communication data, and supports advanced functions like multi-door interlocking and anti-passback.

2. SAFETY INFORMATION

Important Safety Instructions:

- Read all instructions carefully before installation and operation.

- Retain this manual for future reference.

- Observe all warnings and instructions marked on the product.

- Only use attachments/accessories specified by the manufacturer.

- Refer all servicing to qualified service personnel.

- Ensure proper grounding for electrical connections.

- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.

3. PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package. If any items are missing or damaged, contact your supplier immediately.

- 1 x HIKVISION 341-8719 Network Access Controller (DS-K2601)

- *(Additional accessories such as mounting hardware, power adapter, and documentation may be included*

Figure 3.1: Front view of the DS-K2601 Network Access Controller. This image shows the main unit, a beige metal box with the Hikvision logo and a keyhole for security.

4. SETUP AND INSTALLATION

This section outlines the general steps for setting up your DS-K2601 Network Access Controller. Professional installation is recommended for optimal performance and security.

4.1 Mounting the Controller

1. Choose a secure, dry, and well-ventilated location for mounting the controller.
2. Use appropriate screws and anchors to securely fasten the controller to a wall or suitable surface. Ensure the mounting is stable to prevent accidental dislodgement.

4.2 Network Connection

The DS-K2601 features TCP/IP network communication with a self-adaptive network interface.

1. Connect an Ethernet cable from your network switch/router to the network interface port on the controller.
2. Ensure the network settings (IP address, subnet mask, gateway) are correctly configured for your network environment. This can typically be done via the controller's configuration software or web interface.

4.3 Wiring Access Control Devices

Connect card readers, door sensors, exit buttons, and electric locks to the appropriate terminals on the controller. Refer to the wiring diagram provided with the product for specific connections.

- **Readers:** Connect Wiegand or RS-485 readers.
- **Door Sensors:** Connect normally closed (NC) or normally open (NO) contacts.
- **Exit Buttons:** Connect momentary contact buttons.
- **Electric Locks:** Connect to the lock relay outputs. Ensure correct power supply for the locks.

Figure 4.1: Side view of the DS-K2601 Network Access Controller. This image highlights the ventilation and cable management features on the side of the enclosure.

4.4 Power Connection

Connect the power supply to the controller. Ensure the power source meets the voltage and current requirements

specified in the product's technical specifications.

5. OPERATING INSTRUCTIONS

The DS-K2601 is managed through dedicated software or a web interface. This section provides a general overview of its operational capabilities.

5.1 System Configuration

- **User Management:** Add, modify, or delete user credentials (cards, fingerprints, passwords).
- **Door Settings:** Configure door open times, alarm delays, and access schedules.
- **Network Settings:** Adjust IP address, port numbers, and communication protocols.
- **Event Logging:** Review access events, alarms, and system status.

5.2 Advanced Functions

- **Multi-Door Interlocking:** Configure rules where one door must be closed before another can open (applicable for DS-K2602 and DS-K2604 models, but the DS-K2601 supports the feature for integration).
- **Anti-Passback:** Prevent users from passing their access card to another person to gain unauthorized entry by requiring an exit event after an entry event.
- **Encrypted Communication Data:** The controller uses encrypted communication to enhance security between the device and the management software.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your access controller.

- **Cleaning:** Periodically clean the exterior of the controller with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Firmware Updates:** Check the manufacturer's website for available firmware updates. Apply updates as recommended to improve performance and security.
- **Backup Configuration:** Regularly back up your system configuration settings to prevent data loss.
- **Environmental Check:** Ensure the operating environment remains within specified temperature and humidity ranges.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with the DS-K2601 Network Access Controller.

Problem	Possible Cause	Solution
Controller not powering on.	No power supply; faulty power adapter; loose connection.	Check power cable and adapter. Ensure power outlet is functional.
Cannot connect to the network.	Incorrect IP settings; faulty Ethernet cable; network issue.	Verify IP address, subnet mask, and gateway. Check Ethernet cable. Test network connectivity.
Door not unlocking.	Incorrect wiring; faulty lock; access permission issue.	Check lock wiring. Test the lock directly. Verify user access permissions in the software.

Problem	Possible Cause	Solution
Card reader not responding.	Reader wiring issue; faulty reader; incorrect reader configuration.	Check reader wiring. Ensure reader is powered. Verify reader type and settings in the controller software.

If the problem persists after attempting these solutions, please contact technical support.

8. SPECIFICATIONS

Feature	Detail
Model Number	DS-K2601
Product Dimensions	14.6 x 13.6 x 3.5 inches
Item Weight	1 pounds
Communication	TCP/IP Network Communication, Self-Adaptive Network Interface
Security Features	Encrypted Communication Data, Anti-Passback, Multi-Door Interlocking (with compatible models)
Manufacturer	HIKVISION
ASIN	B077BDSTLY

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official HIKVISION website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for warranty claims.
Online Resources: Visit the official HIKVISION website for product documentation, FAQs, and software downloads.
Technical Support: If you encounter issues that cannot be resolved using this manual, contact HIKVISION technical support for assistance.