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Hirsch 8352ABTRXSK

Hirsch 8352ABTRXSK TS ScramblePad SC Instruction Manual

High-Security Contactless Keypad with Smart Card Reader

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1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Hirsch 8352ABTRXSK TS ScramblePad SC. This device is a high-security contactless keypad with an integrated smart card reader, designed for secure access control in sensitive environments. Please read this manual thoroughly before attempting to install or operate the device.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the device or injury to personnel:

- Installation should only be performed by qualified personnel.
- Ensure all power is disconnected before installation or servicing.
- Do not expose the device to extreme temperatures, moisture, or corrosive substances.
- Use only manufacturer-approved components and accessories.
- Adhere to all local electrical codes and regulations.

3. PRODUCT OVERVIEW

The Hirsch 8352ABTRXSK TS ScramblePad SC is an advanced security device offering two-factor authentication. It combines a randomizing keypad with both contactless and contact smart card reading capabilities. Its design is specifically engineered to prevent unauthorized code acquisition through pattern recognition and to mitigate keypad wear that could reveal frequently used digits.

Key Features:

- High-security scramble keypad with dynamic digit display.

- Integrated contactless smart card reader (uTrust TS Reader module).
- Integrated contact smart card reader (Identiv-specific SmartOS).
- View restrictors to limit visibility of displayed digits to the direct user.
- Approved for FIPS201/FICAM environments.



Figure 1: Front view of the Hirsch 8352ABTRXSK TS ScramblePad SC, showing the keypad and card reader slots. This image illustrates the compact design and the visible scramble pad interface.

4. SETUP AND INSTALLATION

This section outlines the general steps for setting up and installing the ScramblePad SC. For detailed wiring diagrams and specific mounting instructions, refer to the separate installation guide provided with the product.

4.1 Mounting the Device

1. Choose a suitable mounting location, typically adjacent to the access point, ensuring clear line of sight for the user.
2. Drill mounting holes according to the provided template.
3. Secure the backplate to the wall using appropriate fasteners.
4. Route necessary wiring through the wall opening to the device.

4.2 Wiring Connections

Connect the ScramblePad SC to the access control panel using the specified wiring. Ensure correct polarity and secure connections for power, data (e.g., Wiegand, OSDP), and tamper switches.

- **Power:** Connect to a regulated 12V DC power supply.
- **Data:** Connect data lines (e.g., Data 0, Data 1) to the access control panel.
- **Tamper:** Connect tamper output to the access control panel's tamper input.

4.3 Initial Power-Up

After all connections are secure, apply power to the device. The ScramblePad will perform a self-test, and the display will illuminate. Refer to your access control system's documentation for configuring the reader and enrolling users/cards.

5. OPERATING INSTRUCTIONS

The Hirsch 8352ABTRXSK TS ScramblePad SC supports multiple modes of operation, typically configured by the access control system. Common access methods include PIN entry, smart card presentation, or a combination of both (two-factor authentication).

5.1 PIN Entry (ScramblePad Function)

1. Approach the ScramblePad. The digits on the keypad will randomize.
2. Enter your Personal Identification Number (PIN) using the displayed digits. The position of each digit changes with every entry, preventing pattern recognition.
3. Press the **ENTER** key (usually marked with a checkmark or similar symbol).
4. The device will communicate with the access control panel to verify the PIN.

5.2 Smart Card Presentation (Contactless)

1. Present your contactless smart card (e.g., FIPS201 PIV card) to the designated reading area on the ScramblePad.
2. Hold the card steady until an audible beep or visual indicator confirms the card has been read.
3. The device will transmit the card data to the access control panel for verification.

5.3 Smart Card Insertion (Contact)

1. Insert your contact smart card into the card slot on the ScramblePad.
2. Ensure the card is fully inserted and oriented correctly.
3. The device will read the card data. Remove the card once verification is complete or instructed by the system.

5.4 Two-Factor Authentication

For enhanced security, the system may require both a smart card and a PIN. In this mode, you will typically present your card first, and then enter your PIN on the ScramblePad when prompted.

6. MAINTENANCE

The Hirsch 8352ABTRXSK TS ScramblePad SC is designed for minimal maintenance. Regular cleaning and periodic checks are recommended to ensure optimal performance.

6.1 Cleaning

- Use a soft, damp cloth to clean the exterior of the device.
- Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the display and casing.
- Ensure no liquid enters the device through openings or seams.

6.2 Periodic Checks

- Visually inspect the device for any signs of physical damage or tampering.
- Verify that all cables are securely connected and free from damage.
- Test the functionality of the keypad and card readers periodically to ensure proper operation.

7. TROUBLESHOOTING

This section provides solutions to common issues. If the problem persists, contact technical support.

Problem	Possible Cause	Solution
Device not powering on.	No power supply; loose wiring.	Check power connections and power supply. Ensure correct voltage.
Keypad digits not scrambling.	Device malfunction; incorrect configuration.	Power cycle the device. Verify configuration with access control system.
Smart card not reading.	Incorrect card type; card damaged; reader malfunction.	Ensure card is compatible. Try a different card. Clean card slot (contact reader).
Access denied despite correct credentials.	Incorrect PIN/card data in system; system communication error.	Verify user credentials in the access control system. Check data line connections.

8. SPECIFICATIONS

Feature	Detail
Model Number	8352ABTRXSK
Brand	Hirsch
Dimensions (LxWxH)	12.7 x 17.8 x 7.6 Centimeters
Item Weight	907 g
Card Reader Type	Contactless (uTrust TS Reader), Contact (Identiv-specific SmartOS)
Authentication	PIN, Smart Card, Two-Factor
Approvals	GSA approved for FIPS201/FICAM environments

9. WARRANTY AND SUPPORT

Hirsch products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty statement included with your purchase or visit the official Hirsch website. Keep your proof of purchase for warranty claims.

Technical Support:

If you encounter issues that cannot be resolved using the troubleshooting guide, please contact Hirsch technical support. Have your product model number (8352ABTRXSK) and serial number ready when you call. For the most up-to-date contact information, please visit the official Hirsch website:
www.hirsch.com/support

