

Alarm Controls DE-1

Alarm Controls DE-1 Exit Station Instruction Manual

Model: DE-1

[Introduction](#) [Product Overview](#) [Safety Information](#) [What's in the Box](#) [Setup](#) [Operating](#)
[Instructions](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Alarm Controls DE-1 Exit Station. Please read this manual thoroughly before installation and use to ensure proper function and safety. The DE-1 Exit Station is designed for use in access control systems, electro-magnetic locks, and exit REX applications.

2. PRODUCT OVERVIEW

The Alarm Controls DE-1 is a durable, stainless steel exit station featuring a green momentary/timed switch and a key-to-reset cylinder. It is designed to provide a reliable exit request in various security and access control environments.

Key Features:

- **Material:** High-quality Stainless Steel for durability.
- **Switch Action:** Momentary/Timed operation for flexible control.
- **Reset Type:** Key-To-Reset mechanism for secure system management.
- **Button Color:** Green, for clear visual identification.
- **Output:** SPDT (Single Pole Double Throw) for versatile wiring.
- **Input Voltage:** Compatible with 12 or 24VDC systems.
- **Includes:** Emergency Door Release with Alarm, and two keys.



Figure 1: Front view of the Alarm Controls DE-1 Exit Station. This image shows the stainless steel plate, the green push button, and the key cylinder.

3. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the product or connected systems:

- Installation should only be performed by qualified personnel in accordance with all local and national electrical codes.
- Disconnect all power to the access control system before installing or servicing the exit station.
- Ensure correct voltage and current ratings are used as specified in the product specifications.
- Do not expose the unit to excessive moisture or extreme temperatures outside the specified operating range.
- Use only manufacturer-approved replacement parts and accessories.

4. WHAT'S IN THE BOX

Upon unpacking, please verify that all items listed below are present and undamaged:

- Alarm Controls DE-1 Exit Station Unit
- Instruction Guide (this document)
- Two (2) Keys for the key cylinder

If any items are missing or damaged, please contact your supplier immediately.

5. SETUP AND INSTALLATION

The DE-1 Exit Station is designed for door mount installation and integration with access control systems. Follow these steps for proper setup:

1. **Prepare Mounting Location:** Choose a suitable location on the door frame or wall adjacent to the door, ensuring it

is easily accessible for exiting personnel. The unit requires a standard single-gang electrical box for flush mounting.

2. **Disconnect Power:** Before proceeding, ensure that all power to the access control system and associated locking devices is completely disconnected.
3. **Mount the Unit:**
 - Carefully remove the faceplate from the DE-1 unit.
 - Connect the wiring from the access control system to the appropriate terminals on the back of the DE-1 unit. Refer to the wiring diagram provided with your access control system for specific connections. The DE-1 provides SPDT output.
 - Secure the DE-1 unit to the electrical box using the provided screws.
 - Reattach the faceplate.
4. **Wiring Connections:**

The DE-1 Exit Station requires 12 or 24VDC input. Connect the power supply and the SPDT output to your access control panel or electro-magnetic lock controller. Ensure polarity is correct for DC power. The SPDT output can be configured for Normally Open (NO) or Normally Closed (NC) applications depending on your system requirements.
5. **Test Functionality:** After installation and wiring are complete, restore power to the system. Test the exit station by pressing the green button and observing the response of the connected locking device. Verify that the key-to-reset function operates correctly.

6. OPERATING INSTRUCTIONS

The Alarm Controls DE-1 Exit Station is designed for straightforward operation:

- **To Request Exit:** Press the green push button. This will activate the connected access control system or release the electro-magnetic lock for a momentary or timed duration, allowing egress.
- **To Reset (Key-To-Reset Models):** If the unit is configured as a "Key-To-Reset" type and has been activated (e.g., an alarm condition), insert one of the provided keys into the cylinder and turn it to the reset position. This will restore the unit to its normal operating state. Remove the key after resetting.

7. MAINTENANCE

The DE-1 Exit Station requires minimal maintenance to ensure long-term reliable operation:

- **Cleaning:** Periodically wipe the stainless steel faceplate with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the finish or internal components.
- **Inspection:** Regularly inspect the unit for any signs of physical damage, loose connections, or wear. Ensure the push button operates smoothly and the key cylinder turns freely.
- **Functionality Test:** Periodically test the exit station's functionality as described in the "Operating Instructions" section to confirm it is working correctly with the connected access control system.

8. TROUBLESHOOTING

If you encounter issues with your DE-1 Exit Station, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Button press does not activate lock/system.	No power to the unit or access control system. Incorrect wiring. Faulty switch.	Check power supply to the exit station and access control panel. Verify all wiring connections according to the installation guide and system diagram. Test the switch continuity with a multimeter. If faulty, replace the unit.
Key does not reset the unit.	Incorrect key used. Cylinder mechanism jammed. Unit not in an activated state requiring reset.	Ensure you are using one of the two provided keys. Do not force the key; inspect for obstructions. If jammed, contact support. Confirm the unit is actually in a state that requires a key reset.
Intermittent operation.	Loose wiring connections. Environmental factors (e.g., extreme temperature).	Check and tighten all wiring connections. Ensure the operating temperature is within the specified range (15°F to 120°F).

If the problem persists after attempting these solutions, please contact Alarm Controls technical support or a qualified technician.

9. SPECIFICATIONS

Detailed technical specifications for the Alarm Controls DE-1 Exit Station:

Model	DE-1
Type	Key-To-Reset Exit Station
Switch Action	Momentary/Timed
Material	Stainless Steel
Finish	Stainless Steel
Dimensions (H x W x D)	5 in. x 5 in. x 2-1/4 in.
Button Color	Green
Rating	5A @ 35VDC
Input Voltage	12 or 24VDC
Output	SPDT
Operating Temperature	15°F to 120°F (-9°C to 49°C)
Cylinder	Yes, with 2 keys included
Mounting Type	Door Mount
Weight	5.2 pounds (approx.)
Applications	Access Control Systems, Electro-Magnetic Locks, Exit REX Applications

10. WARRANTY AND SUPPORT

Warranty Information: Specific warranty details for the Alarm Controls DE-1 Exit Station are not provided in this document. Please refer to the original purchase documentation or contact Alarm Controls directly for warranty terms and conditions.

Technical Support: For technical assistance, troubleshooting beyond this guide, or inquiries regarding parts and service, please contact Alarm Controls customer support. Contact information can typically be found on the manufacturer's official website or on your product packaging.

