Alarm.com ADC-AC-ET10

Alarm.com ADC-AC-ET25 Keypad Reader User Manual

Model: ADC-AC-ET10

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Alarm.com ADC-AC-ET25 Keypad Reader. Designed for Smarter Access Control, this reader integrates multiple credential technologies to enhance security and flexibility for businesses.

Key Features:

- **Multiple Technologies:** Supports Proximity, NFC, and Bluetooth Low Energy (BLE) credentials in a single device.
- **Mobile Credentials:** Enables the use of smartphones to unlock doors, reducing reliance on physical badges.
- **OSDP Auto-Detect & Secure Channel:** Ensures secure communication and automatic detection of OSDP devices.
- **Firmware Upgradability:** Supports remote firmware updates for continuous improvement and security enhancements.
- **Credential Support:** Compatible with I-FARE DESFire EV1 & EV2, and LEAF credentials for secure, open interoperability. Also supports FSK and ASK legacy proximity credentials for seamless transitions.
- **Tamper Detection:** Features accelerometer-based tamper detection for enhanced security.
- **Visual & Audible Indicators:** Equipped with a tri-state LED light bar (red, green, amber) and an audible beeper for status feedback.
- **Versatile Installation:** Suitable for both indoor and outdoor environments.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the device. Failure to follow these instructions may result in damage to the device, property, or personal injury.

- Ensure all electrical connections are made by a qualified professional and comply with local electrical codes.

- Disconnect power before performing any installation or maintenance.
- Do not expose the device to extreme temperatures, humidity, or direct water immersion beyond its specified environmental ratings.
- Avoid placing the device near strong electromagnetic fields, which may interfere with its operation.
- Do not attempt to disassemble or repair the device yourself. Refer all servicing to qualified personnel.

3. PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with installation:

- Alarm.com ADC-AC-ET25 Keypad Reader
- Mounting Hardware (screws, anchors)
- Installation Template (if applicable)
- Quick Start Guide (refer to this manual for full details)

4. PRODUCT OVERVIEW

The ADC-AC-ET25 Keypad Reader is a robust access control device featuring a numeric keypad and multi-technology credential reading capabilities. Its design allows for seamless integration into various security systems.

Figure 4.1: Front view of the Alarm.com ADC-AC-ET25 Keypad Reader. The device is black with a prominent numeric keypad (0-9, *, #) in the center. A green LED light bar is visible at the top, indicating operational status. The "ALARM.COM" logo is located at the bottom.

Components:

- **Keypad:** Numeric keys (0-9), asterisk (*), and hash (#) for PIN entry.
- **LED Light Bar:** Tri-state (red, green, amber) indicator for status feedback.
- **Credential Reader Area:** Integrated area for Proximity, NFC, and BLE mobile credential scanning.

- **Tamper Sensor:** Accelerometer-based sensor to detect unauthorized removal or tampering.

5. SETUP AND INSTALLATION

The ADC-AC-ET25 Keypad Reader is designed for flexible installation in both indoor and outdoor environments. Proper installation is crucial for optimal performance and security.

5.1. Pre-Installation Checklist:

- Verify the mounting surface is suitable and secure.
- Ensure proper wiring and power supply are available at the installation site.
- Confirm compatibility with your existing access control panel (supports OSDP).

5.2. Mounting:

1. Choose a suitable mounting location, considering accessibility and environmental factors.
2. Use the provided mounting template to mark drilling points on the wall.
3. Drill holes and insert anchors if necessary.
4. Secure the reader's backplate to the wall using the provided screws.

5.3. Wiring:

Connect the reader to your access control panel according to the wiring diagram provided with your panel and the reader's specific wiring instructions (typically found on the back of the reader or in a dedicated wiring guide). The reader supports OSDP Auto-Detect and Secure Channel for enhanced communication security.

5.4. Power Up:

Once wiring is complete and verified, apply power to the access control system. The reader's LED light bar will indicate its power-up sequence and operational status.

6. OPERATING INSTRUCTIONS

The ADC-AC-ET25 Keypad Reader offers multiple methods for access, providing flexibility for users.

6.1. Using Credentials:

- **Proximity/NFC Cards/Fobs:** Present your compatible card or fob within close proximity to the reader's front surface. The reader will emit an audible beep and the LED will change color (typically green) upon successful read.
- **Bluetooth Low Energy (BLE) Mobile Credentials:** Ensure your smartphone has the Alarm.com mobile access app installed and BLE is enabled. Approach the reader with your phone. The app will communicate with the reader to grant access.

6.2. Using the Keypad (PIN Entry):

1. Enter your assigned Personal Identification Number (PIN) using the numeric keypad.
2. Press the hash (#) key to confirm your entry.
3. Upon successful PIN entry, the reader will provide an audible and visual confirmation (e.g., green LED).

6.3. LED Indicator Meanings:

- **Green:** Access granted, successful credential read, or system ready.
- **Red:** Access denied, error, or system fault.
- **Amber:** Standby, processing, or specific system status (refer to your access control system documentation for detailed amber indications).

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your ADC-AC-ET25 Keypad Reader.

- **Cleaning:** Use a soft, damp cloth to clean the exterior of the reader. Do not use abrasive cleaners, solvents, or excessive moisture.
- **Firmware Updates:** The reader supports remote firmware upgradability. Your access control system administrator will manage these updates to ensure the device has the latest features and security patches.
- **Inspection:** Periodically inspect the reader for any signs of physical damage or loose connections.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with the ADC-AC-ET25 Keypad Reader.

- **Reader is unresponsive (no lights, no sound):**
  - Check power supply to the reader and access control panel.
  - Verify wiring connections are secure and correct.

- **Credential not granting access (red LED):**
  - Ensure the credential is valid and active in the access control system.
  - Confirm the credential type is supported by the reader (Proximity, NFC, BLE).
  - Try presenting the credential again, ensuring proper alignment.

- **Keypad entry not working:**
  - Verify the PIN is correct and active.
  - Ensure the hash (#) key is pressed after entering the PIN.

- **Tamper alarm triggered:**
  - Check if the reader has been dislodged or moved from its mounting.
  - Securely re-mount the reader if necessary.

For persistent issues, contact your system administrator or technical support.

9. SPECIFICATIONS

Attribute	Detail
Model Number	ADC-AC-ET10
Manufacturer	Alarm.com
Dimensions (L x W x H)	8.38 x 1.78 x 12.95 cm

Supported Technologies	Proximity, NFC, Bluetooth Low Energy (BLE)
Credential Support	I-FARE DESFire EV1 & EV2, LEAF, FSK, ASK
Communication Protocol	OSDP (Open Supervised Device Protocol) with Secure Channel
Indicators	Tri-state LED (Red, Green, Amber), Audible Beeper
Tamper Detection	Accelerometer-based
Installation Environment	Indoor and Outdoor
Country of Origin	Canada

10. WARRANTY INFORMATION

Specific warranty terms and conditions for the Alarm.com ADC-AC-ET25 Keypad Reader are typically provided at the point of purchase or by the manufacturer. Please refer to the documentation included with your purchase or contact your seller/installer for detailed warranty information. Keep your proof of purchase for warranty claims.

11. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact your authorized Alarm.com dealer or the seller from whom you purchased the product. Provide your product model number (ADC-AC-ET10) and a detailed description of the issue when seeking support.

Manufacturer: Alarm.com