

Aoleaby AME435

Aoleaby AME435 Electric Actuator Instruction Manual

Model: AME435

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Aoleaby AME435 Electric Actuator. Please read this manual thoroughly before attempting to install or operate the device. Retain this manual for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the equipment:

- Ensure power is disconnected before installation, maintenance, or troubleshooting.
- Installation and wiring should only be performed by qualified personnel.
- Do not operate the actuator beyond its specified voltage and current ratings.
- Protect the actuator from moisture, dust, and extreme temperatures unless otherwise specified.
- Verify all connections are secure before applying power.

3. PRODUCT OVERVIEW

The Aoleaby AME435 Electric Actuator is designed for precise control of valves, offering fast response and reliable operation in various industrial applications. Its robust design incorporates safety features and energy-saving technology.

Key Features:

- **Precise Control:** Allows fine adjustment of valve opening for desired flow or pressure.
- **Fast Response:** Capable of quick valve opening or closing actions.
- **Safety Protection:** Includes overload and overheating protection for stable operation.
- **High Efficiency and Energy Saving:** Utilizes advanced control algorithms and energy-saving technology.
- **Durable and Reliable:** Constructed for longevity and consistent performance under various conditions.

Product Components:

The actuator consists of a main housing, control electronics, and a drive mechanism for valve operation. Specific components may vary slightly by model.



Figure 1: Side view of the Aoleaby AME435 Electric Actuator, showing its compact design and external casing.



Figure 2: Top view of the Aoleaby AME435 Electric Actuator, revealing the internal mechanism and a label displaying technical specifications such as Type: AME435, Code no: 082G0161, 24VAC/DC 50/60Hz, 45VA, 40N, IP54, Tamb 35°C, Stroke 20mm, 7.5-10mm, 0(2)-10V, 0(4)-20mA.

4. SPECIFICATIONS

Specification	Value
Model Number	AME435
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	10.58 ounces
Manufacturer	Aoleaby
ASIN	B0DK1XCRS9

Note: Additional technical specifications may be found on the product label (refer to Figure 2).

5. SETUP AND INSTALLATION

Proper installation is crucial for the actuator's performance and longevity. Consult the specific valve manufacturer's instructions for mounting compatibility.

- Mounting:** Securely attach the actuator to the valve stem according to the valve manufacturer's guidelines. Ensure proper alignment and mechanical connection.
- Wiring:** Connect the actuator to the control system. Refer to the wiring diagram provided with the actuator (if applicable) or the product label for voltage and signal requirements (e.g., 24VAC/DC, 0(2)-10V, 0(4)-20mA). Ensure all electrical connections are tight and insulated.
- Power Supply:** Connect the appropriate power supply (e.g., 24VAC/DC) to the actuator. Verify the power source matches the actuator's requirements.
- Initial Check:** Before applying full power, perform a continuity check and verify all connections.

6. OPERATING INSTRUCTIONS

Once installed and powered, the AME435 actuator can be operated via its control signal input.

- Power On:** Apply power to the actuator. The actuator may perform an initial self-calibration or move to a default position.
- Control Signal:** Provide the appropriate control signal (e.g., 0-10V or 4-20mA) from your control system. The actuator will respond by adjusting the valve position proportionally to the input signal.
- Monitoring:** Observe the valve's movement and ensure it operates smoothly and reaches the desired

positions.

4. **Adjustment:** If necessary, fine-tune the control signal or system parameters to achieve optimal valve performance.

7. MAINTENANCE

The Aoleaby AME435 Electric Actuator is designed for minimal maintenance. However, periodic checks can ensure long-term reliability.

- **Visual Inspection:** Regularly inspect the actuator for any signs of physical damage, loose connections, or excessive wear.
- **Cleaning:** Keep the actuator free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Connection Check:** Periodically verify that all electrical and mechanical connections remain secure.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges.

8. TROUBLESHOOTING

If the actuator is not functioning as expected, consider the following common issues:

Problem	Possible Cause	Solution
Actuator does not move	No power; incorrect wiring; control signal issue; mechanical obstruction.	Check power supply; verify wiring against diagram; check control signal source; inspect for obstructions.
Actuator moves erratically	Unstable control signal; loose connections; internal fault.	Stabilize control signal; tighten connections; contact support if internal fault suspected.
Overheating	Overload; insufficient ventilation; high ambient temperature.	Reduce load; ensure proper ventilation; check ambient temperature.

For issues not listed or if troubleshooting steps do not resolve the problem, contact Aoleaby customer support.

9. WARRANTY AND SUPPORT

Specific warranty details for the Aoleaby AME435 Electric Actuator were not provided in the product information. Please refer to your purchase documentation or contact the seller for warranty terms and conditions.

For technical support or further assistance, please contact Aoleaby customer service or your authorized distributor.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question