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› [Allen-Bradley](#) /

› [ALLEN BRADLEY 1756-OW16I CONTROLLOGIX Relay Output Module SER A User Manual](#)

Allen-Bradley 1756-OW16I

ALLEN BRADLEY 1756-OW16I ControlLogix Relay Output Module

Model: 1756-OW16I, Series A

INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the Allen-Bradley 1756-OW16I ControlLogix Relay Output Module. This module is designed for industrial control systems, providing reliable relay output capabilities within a ControlLogix chassis.

SETUP

Unpacking and Inspection

Carefully remove the module from its packaging. Inspect the module for any signs of physical damage during transit. Do not install a damaged module. Ensure all components are present as per the packing list.

Mounting

The 1756-OW16I module is designed for DIN Rail Mount installation within a ControlLogix chassis. Ensure the chassis is powered off before inserting or removing modules.

1. Align the module with an available slot in the ControlLogix chassis.
2. Gently push the module into the slot until it clicks securely into place. Ensure the module is fully seated to establish proper electrical connections.
3. Secure the module using any retaining clips or screws provided by the chassis.



Figure 1: Front view of the 1756-OW16I module, showing the 'RELAY OUTPUT' label and 'ST' indicators.



Figure 3: Top view of the 1756-OW16I module, providing a perspective on its internal structure and connection points.

Functionality

The 1756-OW16I is a 16-point isolated relay output module. It provides discrete output control for various industrial applications. The module receives commands from the ControlLogix processor and activates its internal relays to control external devices.

Indicators

The module features status indicators (e.g., 'ST' for status) on its front panel. These indicators provide visual feedback on the module's operational status and the state of individual output channels. Consult the ControlLogix system documentation for a detailed explanation of indicator states.

MAINTENANCE

General Care

To ensure optimal performance and longevity of the module, follow these general maintenance guidelines:

- Keep the module and surrounding area clean and free from dust, dirt, and moisture.
- Ensure proper ventilation around the ControlLogix chassis to prevent overheating.
- Periodically check all wiring connections for tightness and integrity.

Inspection

Regularly inspect the module for any signs of wear, corrosion, or damage. Pay close attention to the connectors and the module's housing. If any damage is observed, replace the module immediately.

TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For more complex problems, refer to the comprehensive ControlLogix system documentation or contact technical support.

| Symptom | Possible Cause | Solution |
|---|---|--|
| Module status indicator (ST) is off or red. | No power to module, module not seated correctly, module fault. | Verify chassis power. Re-seat the module. Check ControlLogix controller diagnostics for fault codes. |
| Output relay not activating. | Incorrect programming, wiring error, external device fault, faulty relay. | Verify PLC logic. Check wiring to the external device. Test the external device. Consider replacing the module if other checks fail. |
| Intermittent output operation. | Loose wiring connection, electrical noise, module overheating. | Check and tighten all wiring connections. Ensure proper grounding and shielding. Verify adequate ventilation. |

SPECIFICATIONS

The following table outlines the key technical specifications for the Allen-Bradley 1756-OW16I ControlLogix Relay Output Module.

| Attribute | Value |
|--------------------|-------------------------------|
| Model Number | 1756-OW16I |
| Series | A |
| Product Dimensions | 6 x 6 x 2 inches; 14.4 ounces |
| Manufacturer | ALLEN BRADLEY |
| Connector Type | Screw |
| Contact Material | Silver |
| Contact Type | Normally Open |
| Mounting Type | DIN Rail Mount |

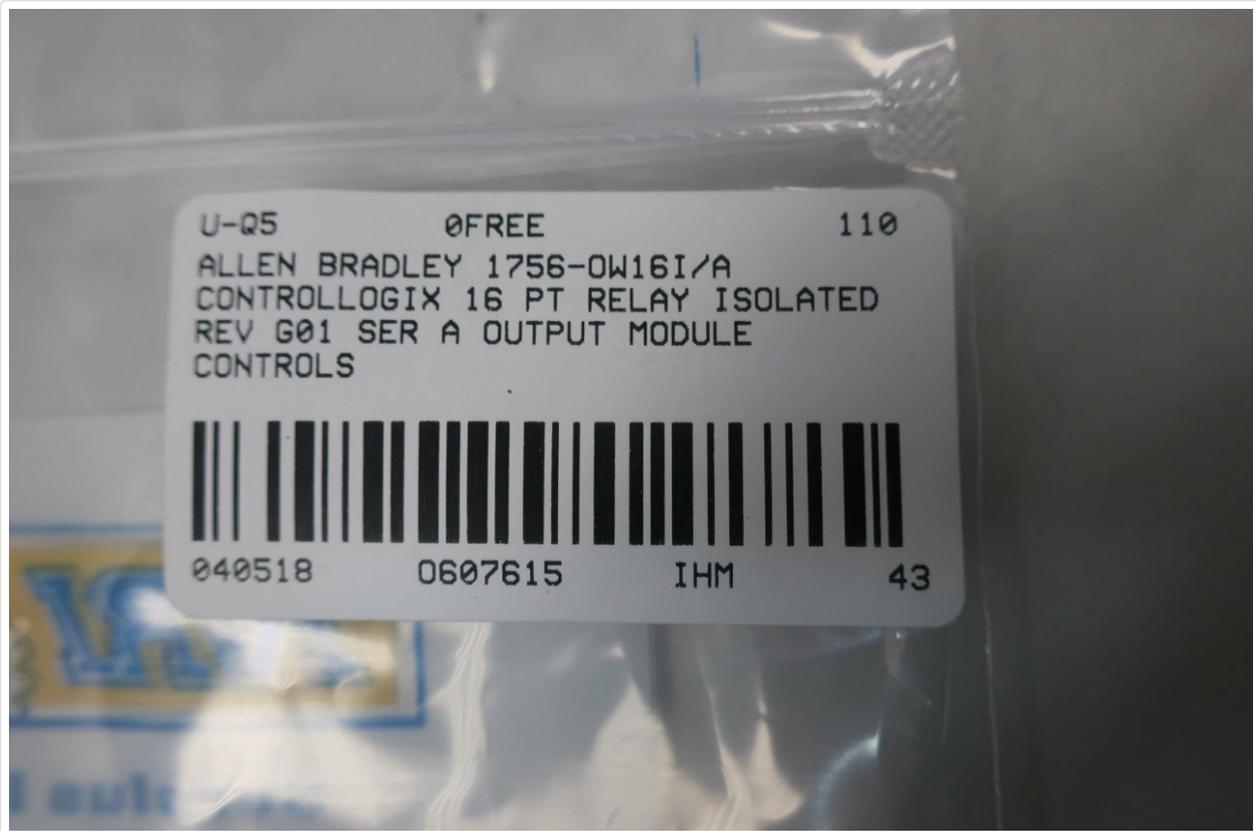


Figure 4: Detailed view of the product label on the 1756-OW16I module, showing part numbers, series, and certifications.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Allen-Bradley documentation or contact your authorized distributor. When seeking support, it is helpful to have the module's serial number and part number readily available.

Relevant codes for documentation or support: [ST2BQ3FG](#) and [607615](#).

Related Documents - 1756-OW16I

| | |
|---|---|
|  | <p>ControlLogix System Selection Guide</p> <p>This guide provides information on selecting and configuring ControlLogix systems, including controllers, I/O modules, communication modules, and accessories. It covers features, specifications, and application examples for various ControlLogix and GuardLogix products.</p> |
|  | <p>1756 ControlLogix Analog I/O Modules Installation Instructions</p> <p>This document provides installation instructions for 1756 ControlLogix Analog I/O Modules, including wiring, assembly, and safety considerations. It covers various module types and their specific installation requirements.</p> |
|  | <p>ControlLogix 5580 Redundant Controller User Manual</p> <p>This user manual provides comprehensive information on the ControlLogix 5580 Redundant Controller, focusing on its application in high availability systems. It covers installation, configuration, operation, and maintenance procedures, along with troubleshooting guidance and programming best practices for ensuring reliable process operation.</p> |
|  | <p>EtherNet/IP Network Configuration User Manual</p> <p>User manual for EtherNet/IP Network Configuration, detailing communication modules, CompactLogix controllers, adapters, and embedded switches. Note: This manual has been replaced by publication ENET-UM006.</p> |
|  | <p>MicroLogix 1200 Isolated Relay Output Module Installation Instructions</p> <p>Installation instructions and specifications for the Allen-Bradley MicroLogix 1200 Isolated Relay Output Module (Catalog Number 1762-OX6I), covering mounting, wiring, and hazardous location considerations.</p> |



[Compact 5000 I/O Digital 16-point Relay Output Module Installation Instructions](#)

This document provides installation instructions for the Compact 5000 I/O Digital 16-point Relay Output Module (Catalog Number 5069-OW16). It covers system requirements, component installation, wiring diagrams, and safety considerations for this industrial automation module.