



# **ControlLogix AC (74...132V) Diagnostic Output Module, Firmware Revisions 2.5 and 3.3**

Catalog Number 1756-OA8D

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## **About This Publication**

This release note contains information about an enhancement available for use with the ControlLogix 1756-OA8D diagnostic output modules at Major Revision 2.x or 3.x in conjunction with uninterruptable power supplies (UPS).

## **About This Digital I/O Module**

Some 1756 ControlLogix digital I/O modules, including this module, are transitioning to use a new, internal backplane ASIC. As a result, the module's Major Revision number has also been upgraded. Digital I/O modules with the new ASIC are identified at Major Revision 3.x.

Modules with the new internal backplane ASIC are form-fit, functional equivalents to the 2.x modules.

The use of the upgraded ASIC also impacts the firmware revisions that may be flashed to the module. Digital I/O modules at Major Revision 3.x cannot be backflashed to any 2.x firmware revision. Digital I/O modules at firmware revision 2.x cannot be flash upgraded to any firmware revision 3.x.

For more information about a module's Major Revision number and compatible firmware revisions, see the ControlLogix Digital I/O Modules Release Note, publication 1756-RN632.

## **Enhancements**

The following enhancement was designed for use in applications where the 1756-OA8D module is used in conjunction with a UPS device.

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### Revision 3.3

For a module operating at firmware revision 3.2, the outputs of the 1756-OA8D module turn off if the module does not detect a zero crossing of the input ac signal for two cycles. Firmware revision 3.3 increases the number of cycle intervals monitored from two cycles to four cycles before turning off outputs..

The increase in cycles enables the UPS to complete a switchover without the 1756-OA8D module turning off outputs until the zero crossing is detected.

### Revision 2.5

For a module operating at firmware revision 2.x, the outputs of the 1756-OA8D module turn off if the module does not detect a zero crossing of the input ac signal for two cycles. Firmware revision 2.5 increases the number of cycle intervals monitored from two cycles to four cycles before turning off outputs.

The increase in cycles enables the UPS to complete a switchover without the 1756-OA8D module turning off outputs until the zero crossing is detected.

## Install the Firmware

To complete the installation of this firmware, complete the following steps.

1. Download the firmware and related files from [www.support.rockwellautomation.com](http://www.support.rockwellautomation.com).
2. Use ControlFlash software to upgrade your module's firmware.

## Additional Resources

For more information see the following publications.

| <b>Topic</b>   | <b>Publication Title</b>   | <b>Publication No.</b> |
|--|--|------------------------|
| Major revision numbers and compatible firmware.      | ControlLogix Digital I/O Modules   | 1756-RN632             |
| Installation of the module including specifications. | ControlLogix AC (74-132V) Diagnostic Output Module Installation Instructions | 1756-IN057             |

You can view or download publications at <http://literature.rockwellautomation.com>. To order paper copies of technical documentation, contact your local Rockwell Automation distributor or sales representative.

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# Rockwell Automation Support

Rockwell Automation provides technical information on the web to assist you in using its products. At <http://support.rockwellautomation.com>, you can find technical manuals, a knowledge base of FAQs, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

For an additional level of technical phone support for installation, configuration, and troubleshooting, we offer TechConnect Support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://support.rockwellautomation.com>.

## Installation Assistance

If you experience a problem with a hardware module within the first 24 hours of installation, please review the information that's contained in this manual. You can also contact a special Customer Support number for initial help in getting your module up and running.

|                       |  |
|-----------------------|--|
| United States         | 1.440.646.3223<br>Monday – Friday, 8am – 5pm EST   |
| Outside United States | Please contact your local Rockwell Automation representative for any technical support issues. |

## New Product Satisfaction Return

Rockwell tests all of its products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning, it may need to be returned.

|                       |   |
|-----------------------|---|
| United States         | Contact your distributor. You must provide a Customer Support case number (see phone number above to obtain one) to your distributor in order to complete the return process. |
| Outside United States | Please contact your local Rockwell Automation representative for return procedure.  |

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