



ControlLogix Analog Servo Modules, Firmware Revision 21

Catalog Numbers 1756-HYD02, 1756-M02AE, 1756-M02AS

When to Use These Release Notes

Use these release notes for information about the following firmware revisions.

Module	Cat. No.	Firmware Revision
ControlLogix® 2-axis Hydraulic Servo Module	1756-HYD02	21.001
ControlLogix 2-axis Analog Encoder Servo Module	1756-M02AE	21.001
ControlLogix 2-axis Analog SSI Servo Module	1756-M02AS	21.001

IMPORTANT

Before updating your ControlLogix Analog Servo Modules, we strongly recommend that you review information pertinent to previous major firmware revisions.

For example, when updating from revision 20.xxx to 21.xxx, view information in the ControlLogix Analog Servo Modules, Revision 20 Release Notes, publication [1756-RN692](#), in addition to the content of these release notes.

Compatible Versions of Software

To use firmware revision 21.001, these minimum software versions are required.

Table 1 - Compatible Software Versions

Software	Required Version
RSLinx® Classic	3.51.00 (CPR9, SR 5.1)
RSLinx Enterprise	5.51.00 (CPR9, SR 5.1)
Studio 5000™ Logix Designer	21.00.00 (CPR9, SR 5.1)
ControlLogix controller	21.011
RSNetWorx™ for ControlNet	21.00.00 (CPR9, SR 5.1)
RSNetWorx for DeviceNet	
RSNetWorx for EtherNet/IP	



Operating system and service pack compatibility are as follows:

- Microsoft Windows 7 Professional (64-bit) with Service Pack 1
- Microsoft Windows 7 Home Premium (64-bit) with Service Pack 1
- Microsoft Windows 7 Home Premium (32-bit) with Service Pack 1
- Microsoft Windows Server 2008 R2 Standard Edition with Service Pack 1

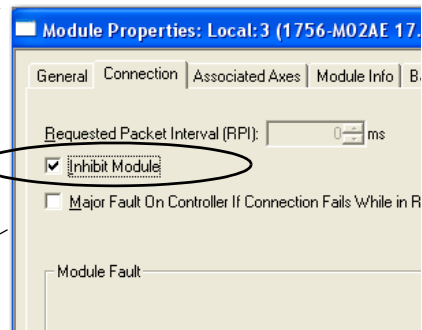
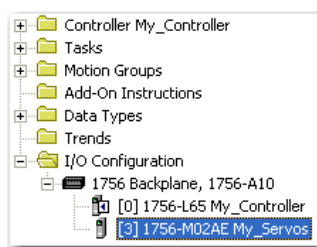
For hardware requirements, go to:

<http://www.rockwellautomation.com/rockwellsoftware/design/rslogix5000/sysreq.html>

Before You Begin



ATTENTION: Before you upgrade the firmware of your module, you must inhibit the module.



This disables the axes and makes updating the module easier.

Enhancements

This enhancement is available when you use ControlLogix 2-axis Analog SSI Servo module, firmware revision 21.001, with the Logix Designer application, version 21.00.13 and later.

Table 2 - Enhancements with Firmware Revision 21.001

Cat. No.	Description
1756-M02AS	If you issue an Absolute Feedback Offset via a Set System Value (SSV) instruction on the 1756-M02AS module, the result is a feedback fault. This is helpful because whether the feedback is on or off, a feedback fault occurs.

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Publication	Description
ControlLogix Analog Servo Modules, Firmware Revision 18 Release Notes, publication 1756-RN670	Provides information about firmware revision 18.
ControlLogix Analog Servo Modules, Firmware Revision 19 Release Notes, publication 1756-RN679	Provides information about firmware revision 19.
ControlLogix Analog Servo Modules, Firmware Revision 20 Release Notes, publication 1756-RN692	Provides information about firmware revision 20.
ControlLogix Hydraulic Servo Module User Manual, publication 1756-UM525	Describes how to install, configure, and operate a 1756-HYD02 hydraulic servo module.
Sercos and Analog Motion Configuration and Startup User Manual, publication MOTION-UM001	Describes how to install, configure, and operate 1756-M02AE and 1756-M02AS analog modules.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides the general guidelines for installing a Rockwell Automation® industrial system.
Product Certifications website, http://www.ab.com	Provides the declarations of conformity, certificates, and other certification details.

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

Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products.

At <http://www.rockwellautomation.com/support>, you can find technical manuals, 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. You can also visit our Knowledgebase at <http://www.rockwellautomation.com/knowledgebase> for FAQs, technical information, support chat and forums, software updates, and to sign up for product notification updates.

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

Installation Assistance

If you experience a problem within the first 24 hours of installation, review the information that is contained in this manual. You can contact Customer Support for initial help in getting your product up and running.

United States or Canada	1.440.646.3434
Outside United States or Canada	Use the Worldwide Locator at http://www.rockwellautomation.com/support/americas/phone_en.html , or contact your local Rockwell Automation representative.

New Product Satisfaction Return

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Outside United States	Please contact your local Rockwell Automation representative for the return procedure.

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