



2 Axis Analog Encoder Servo Module Firmware v5.6 Release Note

Cat. No. 1756-M02AE

Introduction

This release note corresponds to revision 5.6 of the 2 Axis Analog Encoder Servo Module. This is a maintenance release of the firmware and replaces v5.5 (see publication 1756-RN576E-EN-P July 2002). It is intended for use in the ControlLogix™ system as follows:

Update this software or firmware	Catalog Number:	Revision
Logix5550 Controller	1756-L1, -L1Mx	For use in 9, 10, or 11 only
Logix5553 Controller	1756-L53	For use in 9, 10, or 11 only
Logix5555 Controller	1756-L55Mx	For use in 9, 10, or 11 only
Logix5563 Controller	1756-L63	For use in 10 or 11 only
RSLogix 5000 Software		For use in 9, 10, or 11 only

Corrections

- Corrected the anomaly whereby executing a Motion Servo On (MSO) instruction at or near the Unwind Position of a rotary axis in Velocity Mode would move the axis an unwind distance. This situation no longer results in axis motion.
- Stop Motion and Status Only are now valid fault actions for both Drive Fault and Feedback Loss.
- The Friction Compensation attribute can now be set for velocity servo drives via the SSV command in RSLogix 5000 . This is intended for use in hydraulic control applications.

Restrictions

- If ControlFLASH™ detects an error while upgrading the 2 Axis Analog Encoder Servo Module's firmware, wait at least 60 seconds before removing power in order to give the module an opportunity to recover.
- When using ControlFLASH to update the 2 Axis Analog Encoder Servo Module, make sure that no Logix Controller in the same chassis can configure the module during the upgrading process.

If the Flash Upgrade fails to complete during the ControlFLASH procedure and you receive a Communication Request Timed Out followed by a DSP Update Failed message, the 1756-M02AE is connected to (communication with) a processor. Data connections to the module must be closed prior to performing the ControlFLASH update. For a successful update, the OK LED on the 1756-M02AE must be in a flashing green state. If the 1756-M02AE module is connected to the processor the OK LED is solid green.

If it is acceptable to clear out the processor's memory, use the following method to remove the connection.

Clear the program from the ControlLogix processor by removing the battery and performing an RIUP (Removal and Insertion Under Power) of the processor module. Next RIUP the targeted 1756-M02AE module to clear the module's connection fault. An alternative to the RIUP sequence is to simply cycle power to the ControlLogix rack. When the module's OK LED is flashing green, the module is ready to be updated using ControlFLASH.

If you must preserve the processor's memory, use one of the following methods to remove the connection.

- Move the 1756-M02AE module to an empty slot in the ControlLogix rack and then perform the ControlFLASH update.
- Inhibit the 1756-M02AE using RSLogix5000. To do this right click on the targeted 1756-M02AE module in the Controller Organizer and select Properties. Click on the Connection Tab and check the Inhibit Module check box. Click on the Apply button. RSLogix5000 closes the connections to the 1756-M02AE. Perform the update using ControlFLASH.

For more information refer to our web site: www.ab.com/motion

www.rockwellautomation.com

www.ab.com

Corporate Headquarters

Rockwell Automation, 777 East Wisconsin Avenue, Suite 1400, Milwaukee, WI, 53202-5302 USA, Tel: (1) 414.212.5200, Fax: (1) 414.212.5201

Headquarters for Allen-Bradley Products, Rockwell Software Products and Global Manufacturing Solutions

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
Europe: Rockwell Automation SA/NV, Vorstlaan/Boulevard du Souverain 36-BP 3A/B, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
Asia Pacific: Rockwell Automation, 27/F Citicorp Centre, 18 Whitfield Road, Causeway Bay, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Headquarters for Dodge and Reliance Electric Products

Americas: Rockwell Automation, 6040 Ponders Court, Greenville, SC 29615-4617 USA, Tel: (1) 864.297.4800, Fax: (1) 864.281.2433
Europe: Rockwell Automation, Brühlstraße 22, D-74834 Elztal-Dallau, Germany, Tel: (49) 6261 9410, Fax: (49) 6261 1774
Asia Pacific: Rockwell Automation, 55 Newton Road, #11-01/02 Revenue House, Singapore 307987, Tel: (65) 351 6723, Fax: (65) 355 1733

Allen-Bradley Industrial Motion Control Technical Support

Ultra, Servo Motors (MP, F, H, Y and N-Series) and Electro-Craft products: Tel: (1) 952.914.3990, Fax: (1) 952.942.3756, E-mail: RAEPTechSupport@ra.rockwell.com
ControlLogix Motion, GMC, GML, S-Class, 1746, IMC and Creonix products: Tel: (1) 603.443.5419, Fax: (1) 603.448-5969, E-mail: RALebTechSupport@ra.rockwell.com
CNC products: (1) 440.646.6800
1394, Servo Motors (1326), 8720, and other products: Tel: (1) 262.512.8176, Fax: (1) 262.512.8450, E-mail: Support@drives.ra.rockwell.com
For Europe: Tel: 44 1270 580142, Fax: 44 1270 580141, E-mail: Ctechnicalsupport@ra.rockwell.com