

FLEX I/O DeviceNet Adapter

Firmware Revision: 3.002

Catalog Numbers 1794-ADN, 1794-ADNK, Series C

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About This Publication

These release notes supplement the existing documentation supplied with your product.

Before You Begin

ATTENTION

The Series C adapter, Firmware Revision 3.002, will impact your DeviceNet network and will require a new EDS file for RSLogix and RSNetWorx. RSLogix 5000 does not have to be updated as long as the adapter in the I/O configuration tree has electronic keying configured as "Compatible Keying".

Firmware Revision History

Firmware Revision History for FLEX I/O DeviceNet Adapter

Revision	Description
3.002	Second revision released with corrected anomaly.
3.001	First revision released with known anomaly and corrected functionality.

The following tables provide a list of enhancements, known anomalies, and corrected anomalies for the FLEX I/O DeviceNet Adapter firmware revisions.

Enhancements

Enhancements for 1794-ADN Series C

Enhancement	Description
Series C hardware	The FLEX I/O DeviceNet Adapter has been redesigned to address part obsolescence issues. The Series C design is a functional replacement for the Series B product. Both products are functionally identical except for the new status indicator functionality described in LED Status Indicator on page 5. There are some minor revision differences between the Series B and the Series C. The Series C design provides ControlFlash update functionality. • The Series C adapter current requirement has decreased to 300 mA and the inrush current requirement have decreased to 14 A @ 5 ms. • The Series C adapter isolation voltage has increased to 1930V DC for 60 s between User Power, DeviceNet, FLEXbus, and Chassis Ground. • The Series C operating temperature range has changed to -20...70 °C (68...158 °F).
Agency certification	Agency certification is now certified for c-UL-us.
EDS File	The product's EDS File has been updated with the Series C major firmware revision. To access the EDS File: 1. Download the EDS file from the Rockwell Technical Support web site. 2. In RSNetWorx, select Tools > EDS Wizard. The EDS Wizard starts up. 3. Follow the instructions for installing the saved EDS file.

Anomalies

Known Anomalies for Firmware Revision 3.001

Anomaly	Description
QuickConnect feature is not working when there are only two nodes in the network	The FLEX I/O DeviceNet adapters take a long time to establish connection with the 1756-DNB scanner after power cycle with the QuickConnect feature enabled. This issue occurs in a DeviceNet network with only two nodes – 1756-DNB (Series C, D, or E) scanner and FLEX I/O DeviceNet adapter (Series C) – and with the QuickConnect feature enabled. After the FLEX I/O DeviceNet adapter is power cycled, it takes more than 12 seconds for the adapter to establish a connection with the 1756-DNB scanner. A workaround is to set up a DeviceNet network with more than two nodes.

Corrected Anomalies for Firmware Revision 3.002

Anomaly	Description
Module/Network status flashes red during explicit message connection timeout	When the explicit messaging connection goes to Deferred Delete state, the Module/Network status LED flashes red. This LED behavior is wrong. The correct Module/Network status LED behavior should be solid green.

Corrected Functionality

LED Status Indicator

Status indicator functionality and behavior have been changed to meet ODVA conformance standard. The functionality of the Series C adapter is shown below.

Corrected Functionality for Firmware Revision 3.001

Indicator	State	Description	Possible Causes
Module/ Network status	Off	No power or no network access	• Device is not powered. • Device is not online – autobauding. • Device has not completed Dup-Mac ID test.
	Flashing green/off	Online but not connected	Device is online but has no connections in the established state.
	Solid green	Online, link OK, connected	• Device is online and has connections in the established state. • Adapter in scan list.
	Flashing red	Recoverable fault	• One or more I/O connections in timed-out state. • Loss of DeviceNet power.
	Solid red	Critical adapter fault	• Critical link failure – failed communication device. • Device detected error which prevents it from communicating on the network. • Bus Off fault or failed Dup-Mac ID test.

Corrected Functionality for Firmware Revision 3.001

Indicator	State	Description	Possible Causes
I/O status	Off	No power or outputs off	
	Flashing red	Recoverable fault – outputs in fault	- One or more I/O connections in timed-out state. - Loss of DeviceNet power. - Backplane fault – module missing or incorrect.
	Flashing green/off	Idle program mode – outputs in idle	Adapter in scan list but not in run (outputs in idle state).
	Solid green	Device operational – outputs live-run	Outputs in live-run state.
	Solid red	Critical adapter fault – unrecoverable	

Additional Resources

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

Notes:

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, 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://www.rockwellautomation.com/support/>.

Installation Assistance

If you experience a problem 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 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

Rockwell Automation 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 and needs to be returned, follow these procedures.

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

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Rockwell Otomasyon Ticaret A.Ş., Kar Plaza İş Merkezi E Blok Kat:6 34752 İçerenköy, İstanbul, Tel: +90 (216) 5698400

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

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