

FLEX I/O DeviceNet Adapter

Catalog Number 1794-ADN Series C, Firmware Revision 3.1

Topic	Page
About This Publication	1
Before You Begin	1
Enhancements	2
Corrected Functionality	3
Additional Resources	4

About This Publication

This release note provides information about the 1794-ADN Series C DeviceNet Adapter.

Before You Begin

ATTENTION

The Series C adapter, Firmware Revision 3.1, will impact your DeviceNet network and will require a new EDS file for RSLinx 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".

Enhancements

Enhancements with Firmware Revision 3.1

Enhancement	Description
Series C hardware	<p>The DeviceNet FLEX I/O Adapter has been redesigned to address part obsolescence issues. The Series C design is a drop-in replacement for the Series B product. Both products are functionally identical except for the new Status indicator functionality described later.</p> <p>There are some minor revision differences between the Series B and the Series C. The Series C design provides ControlFlash update functionality.</p> <p>The Series C adapter current requirement has decreased to 300 mA and the inrush current requirement have decreased to 14 A @ 5 ms.</p> <p>The Series C adapter isolation voltage has increased to 1930V DC for 60 s between User Power, DeviceNet, FLEXbus, and Chassis Ground.</p> <p>The Series C operating temperature range has changed to -20...70 °C (68...158 °F).</p>
Agency certification	Agency certification has changed to c-UL-us
EDS File	<p>The product's EDS File has been updated with the Series C major firmware revision.</p> <p>To access the EDS File:</p> <ol style="list-style-type: none">1. Download the EDS file from the Rockwell Technical Support web site.1. In RSNetWorx, select Tools > EDS Wizard. The EDS Wizard starts up.2. Follow the instructions for installing the saved EDS file.

Corrected Functionality

LED Status Indicator

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

Indicator	State	Description	Possible Causes
Module/ Network status	Off	No power or no network access	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Device is online and has connections in the established state. • Adapter in scan list.
	Flashing red	Recoverable fault	<ul style="list-style-type: none"> • One or more I/O connections in timed-out state. • Loss of DeviceNet power.
	Solid red	Critical adapter fault	<ul style="list-style-type: none"> • 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.

Indicator	State	Description	Possible Causes
I/O status	Off	No power or outputs off	
	Flashing red	Recoverable fault – outputs in fault	<ul style="list-style-type: none"> • 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://literature.rockwellautomation.com>. To order paper copies of technical documentation, contact your local Rockwell Automation distributor or sales representative.

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