



Installation Instructions

FlexLogix Controller System

Catalog numbers 1794-L33, 1794-L34, 1794-FLA

Use this document as a guide for installing your FlexLogix™ controller system. This document provides installation instructions for both the FlexLogix controller (1794-L33, -L34) and the FlexLogix extended-local I/O adapter (1794-FLA). You should already be familiar with the FlexLogix system components. See the documentation references for additional information.

You must **FLASH upgrade the firmware** on your FlexLogix controller before you can use it. The controller ships with firmware revision 1.x but must be upgraded to match the version of RSLogix 5000 that you are using (e.g. if you are using RSLogix 5000 V11, you must upgrade your FlexLogix controller firmware to revision 11.x before using it). For more information on upgrading your controller's firmware, see page 22.

Tools That You Need

You need the following tools to install your FlexLogix controller system.

- slotted screwdriver
- phillips screwdriver
- mounting hardware (for mounting a DIN rail)
- drill (for mounting a DIN rail)
- needle-nose pliers

Obtain a User Manual

This product also has a user manual (pub. no. 1794-UM001). To view it, visit: **www.theautomationbookstore.com**. To purchase a manual, you can:

- contact your local distributor or Rockwell Automation representative
- visit **www.theautomationbookstore.com** and place an order
- call 800.963.9548 (USA/Canada) or 001.320.725.1574 (outside USA/Canada)

What You Need to Do

Before you can install a FlexLogix controller or extended-local adapter, you must:

- ☒ Install steel, 35 x 7.55mm DIN rails (A-B part number 199-DR1; 46277-3) where you want to place the FlexLogix system components.

The DIN rails for all FlexLogix system components, including all local and extended-local I/O modules, must be mounted on a common, conductive surface to ensure proper electromagnetic interference (EMI) performance. See 24 and 25 for approximate mounting dimensions and mounting clearances.

For more information about mounting DIN rails and splitting I/O across DIN rails, see the *FLEX I/O Product Data*, publication 1794-2.1

- ☒ Use DIN rail locks (A-B catalog number 1492-EA35) to meet the shock and vibrations specifications listed on 26. A pair of DIN locks comes with the controller.
- ☒ Mount an appropriate power supply on an appropriate DIN rail. See the specifications on 26.

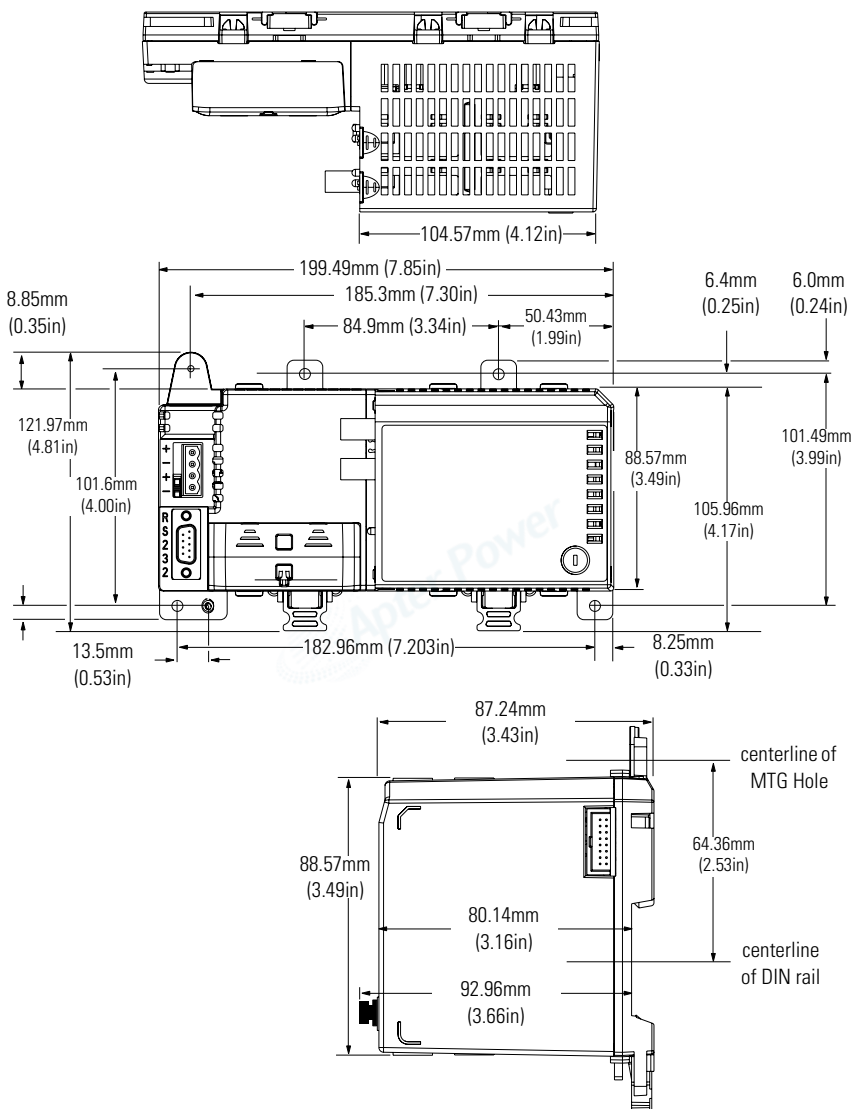
To install a FlexLogix controller:

- ☐ Step 1: Verify That You Have All the Components, see page 9.
- ☐ Step 2: Install the Battery, see page 10.
- ☐ Step 3: Install Communication Daughtercards (optional), see page 11
- ☐ Step 4: Install the Controller, see page 12.
- ☐ Step 5: Install the Extended-Local Adapter (optional), see page 15.

After you install the FlexLogix controller, you can:

- ☐ Make an RS-232 Connection to the Controller, see page 18.
- ☐ Select the Operating Mode of the Controller see page 21.
- ☐ Monitor the Controller LEDs, see page 22.

FlexLogix Controller Approximate Mounting Dimensions



Other Publications

You can use the following manuals with this product:

Documents required for installation details:	Publication number:
Industrial Automation Wiring and Grounding Guidelines	1770-4.1
Flex 1794-PS3 Power Supply Installation Instructions	1794-5.71
Flex 1794-PS13 Power Supply Installation Instructions	1794-5.69
Flex I/O Terminal Base Installation Instructions	1794-5.16
1794-CE1, -CE3 Interconnect Cable Installation Instructions	1794-5.12
FLEX I/O and FLEX Integra I/O Technical Data	1794-2.1
Documents available for further reference	Publication number:
FlexLogix System User Manual	1794-UM001
Logix5000 Controllers Common Procedures Reference Manual	1756-PM001
Logix5000 Controllers General Instruction Set Reference Manual	1756-RM003
Guidelines for Handling Lithium Batteries	AG-5.4

You can obtain manuals at www.theautomationbookstore.com.

Specifications

Category:	FlexLogix controller (1794-L33, -L34)	FlexLogix extended-local I/O adapter (1794-FLA)
user memory	1794-L33 64 KBytes 1794-L34 512 KBytes	na
input voltage rating (nominal) range	24V dc 19.2V to 31.2V dc (includes 5% ac ripple)	
isolation voltage (continuous-voltage withstand rating)	30V dc Qualification tested to withstand 850V dc for 60 seconds	
input current ⁽¹⁾	1.33A maximum at 19.2V dc 0.85A maximum at 24V dc	0.39A maximum at 19.2V dc 0.25A maximum at 24V dc
power dissipation ⁽²⁾	25.5W maximum at 19.2V 20.4W maximum at 24V dc	7.5W maximum at 19.2V 6.0W maximum at 24V dc
backplane (FLEXBUS) current output	653mA maximum @ 5.1V dc	653mA maximum @ 5.1V dc
thermal dissipation	87BTU/hour @ 19.2V	25.6BTU/hour @ 19.2V
weight	1794-L33 .71 kg (1.56 lbs oz.) 1794-L34 .75 g (1.66 lbs.) (no communication cards installed)	.28 kg (.62 lbs.)