

1794-IE8

FLEX I/O 8 Point Analog Input Module

Converts eight single-ended current or voltage input channels into left-justified 16-bit FLEX I/O data for the adapter and controller.

PRODUCT SNAPSHOT

BRAND

Allen-Bradley

FAMILY

Allen-Bradley FLEX I/O

PART

1794-IE8

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PRODUCT OVERVIEW

Converts eight single-ended current or voltage input channels into left-justified 16-bit FLEX I/O data for the adapter and controller.

1

Accepts selectable voltage or current input ranges

2

Converts all eight channels in 256 μ s

3

Presents input data in 16-bit two's-complement format

4

Reports module power and status through a red/green indicator

SYSTEM COMPONENTS

Compatible FLEX I/O adapter

Approved FLEX I/O terminal base

Current or voltage field transmitters

Controller I/O configuration

TECHNICAL NOTE

Mount 1794-IE8 on the terminal base specified in Rockwell Automation publication 1794-IN100, isolate field-loop energy before rewiring, preserve channel polarity and confirm each configured range with a controlled current or voltage source.

TECHNICAL DATA

PARAMETER	VALUE
Catalog number	1794-IE8
Analog inputs	8 single-ended, nonisolated
Input voltage ranges	0...10 V; -10...+10 V
Input current ranges	0...20 mA; 4...20 mA
Resolution	12-bit unipolar; 11 bits plus sign bipolar
Voltage resolution	2.56 mV/count unipolar; 5.13 mV/count bipolar
Current resolution	5.13 μ A/count
Data format	Left-justified 16-bit two's complement
Conversion method	Successive approximation
Conversion rate	256 μ s for all channels
Voltage input impedance	100 k Ω nominal
Current input impedance	238 Ω nominal
FLEXBus current	15 mA at 5 V DC

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
1794-IE12	FLEX I/O 12-point analog input module	View 1794-IE12 page
1794-OM8	FLEX I/O 8-point AC output module	View 1794-OM8 page
1794-AENT	FLEX I/O EtherNet/IP adapter	View 1794-AENT page
1794-IB16	FLEX I/O 16-point digital input module	View 1794-IB16 page
1756-BA1	ControlLogix and FlexLogix battery assembly	View 1756-BA1 page
1756-IF16	ControlLogix analog input module	View 1756-IF16 page
1756-OF8	ControlLogix analog output module	View 1756-OF8 page
1756-OB16E	ControlLogix protected digital output module	View 1756-OB16E page

PARAMETER	VALUE
External supply voltage	24 V DC nominal; 10.5...31.2 V DC
External supply current	60 mA at 24 V DC
Status indicator	1 red/green power/status LED
Enclosure type	Open style
Operating temperature	-20...+55 °C
Storage temperature	-40...+85 °C
Relative humidity	5...95%, noncondensing
Vibration	5 g at 10...500 Hz
Operating shock	30 g
Nonoperating shock	50 g
ESD immunity	6 kV contact; 8 kV air
Conducted RF immunity	10 Vrms, 150 kHz...80 MHz

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Eight-channel process transmitter acquisition

Accepts selectable voltage or current input ranges

Remote pressure and flow monitoring

Converts all eight channels in 256 μ s

Temperature-transmitter signal collection

Presents input data in 16-bit two's-complement format

FLEX I/O cabinet modernization

Reports module power and status through a red/green indicator

PRODUCT PRECAUTIONS

- 1 Verify the complete 1794-IE8 marking and the assigned Allen-Bradley FLEX I/O position before work.
- 2 Isolate the applicable power and field energy before disconnecting 1794-IE8.
- 3 Record the installed conductor, connector and module position before replacement of 1794-IE8.
- 4 Use ESD controls and protect the keyed interfaces while handling 1794-IE8.
- 5 Confirm the companion hardware listed for 1794-IE8 matches the approved system drawing.
- 6 Restore the documented configuration before applying process or machine power.
- 7 Run a controlled functional and diagnostic test for 1794-IE8 before release.
- 8 Retain the final wiring and test record with the 1794-IE8 maintenance history.

ENGINEER FAQ

Q1 Which host platform accepts 1794-IE8?

Use 1794-IE8 only in the Allen-Bradley FLEX I/O arrangement identified by the manufacturer documentation and the installed hardware record.

Q2 What should be checked before installing 1794-IE8?

Confirm the complete marking, part number 1794-IE8, mounting position and companion components before field work.

Q3 How is 1794-IE8 connected in the system?

Follow the manufacturer terminal and connector assignment for 1794-IE8; retain each conductor and shield identity during service.

Q4 How is 1794-IE8 configured after replacement?

Restore the approved project or device settings for 1794-IE8, then verify status and diagnostics before automatic operation.

Q5 What signal or process role does 1794-IE8 perform?

Converts eight single-ended current or voltage input channels into left-justified 16-bit FLEX I/O data for the adapter and controller.

Q6 How should 1794-IE8 be commissioned?

Energize under controlled conditions, exercise the intended function of 1794-IE8, and record the final diagnostic state.

Q7 What maintenance record is needed for 1794-IE8?

Retain the as-found wiring, installed position, configuration revision and functional-test result for 1794-IE8.

Q8 Can 1794-IE8 be substituted directly?

A replacement of 1794-IE8 requires a model, hardware-revision and system-compatibility check against the manufacturer documentation.