

Allen-Bradley 1794-OF4I

Isolated Analog Output Module / Identity and operating role

Allen-Bradley 1794-OF4I is a FLEX I/O isolated analog output module with four configurable current or voltage outputs, 15-bit-plus-sign resolution and factory calibration.

Number of outputs	4 isolated
Current ranges	4 to 20 mA or 0 to 20 mA
Voltage ranges	+/-10 V, 0 to 10 V, +/-5 V or 0 to 5 V
Resolution	15 bits plus sign
Update rate	2.5 or 5.0 ms
External supply	24 V DC; 19.2 to 31.2 V DC

MODEL-SPECIFIC POINT

Four isolated analog outputs

MODEL-SPECIFIC POINT

Current and voltage output ranges

MODEL-SPECIFIC POINT

15-bit-plus-sign resolution

MODEL-SPECIFIC POINT

2.5 or 5.0 ms update rate

Important Notice: Connect only one current or one voltage signal per channel. Verify the terminal-base type, keyswitch position 4, field supply, channel configuration and shield termination before energizing 1794-OF4I.

IDENTITY CONTROL

Match the complete model and installed record before any replacement decision.

CONFIGURATION CONTROL

Retain the project, addresses, wiring or network data and acceptance evidence together.

Allen-Bradley 1794-OF4I

Isolated Analog Output Module / System integration and applications

The module mounts on a supported 1794 terminal base with the keyswitch at position 4. Each channel is configured for one current or one voltage signal and uses shielded signal wiring with a separate 24 V DC field supply.

Isolated current-loop command

Generates configured 0 to 20 mA or 4 to 20 mA outputs for field devices.

Voltage setpoint output

Provides configured bipolar or unipolar voltage commands within the published ranges.

Four-channel actuator control

Drives four independently mapped analog channels from a FLEX I/O station.

Analog output replacement

Restores the exact module and terminal-base wiring while preserving channel format and scaling.

Additional manufacturer data

External supply current	210 mA at 24 V DC
Keyswitch	Position 4
Supported bases	1794-TB2/TB3/TB3S/TB3T/TB3TS/TBN
Operating temperature	-20 to +55 degrees C
Calibration	Factory calibrated; recalibrate when necessary

VERIFIED RELATED PRODUCTS

Catalog navigation only; compatibility, replacement or substitution is not implied.

01 Allen-Bradley 1794-OE4XT

02 Allen-Bradley 1794-IE4XOE2

APPLICATION BOUNDARY

The examples describe the documented system role and do not establish interchangeability.

SELECTION EVIDENCE

Confirm the exact model against the installed drawing, project record and field arrangement.

Allen-Bradley 1794-OF4I

Isolated Analog Output Module / Installation and commissioning

01 / CONTROLLED STEP

Confirm the complete 1794-OF4I marking and terminal-base model.

02 / CONTROLLED STEP

Place every connected actuator or loop in its approved maintenance state.

03 / CONTROLLED STEP

Remove backplane and field power before module or wiring work.

04 / CONTROLLED STEP

Set the terminal-base keyswitch to position 4 and seat the module evenly.

05 / CONTROLLED STEP

Connect only one current or one voltage signal to each channel.

06 / CONTROLLED STEP

Use shielded signal cable and bond the shield as specified for the installed base.

Release gate

Keep analog and digital module power supplies separate where required for noise control. Restore power, verify the status indicator and prove every configured output safely.

Exact identity	1794-OF4I
Installed position	Record rack, slot and station assignment
Configuration	Retain project, addresses, signal modes and network data
Acceptance	Record diagnostics and witnessed functional response

VERIFIED RELATED PRODUCTS

Catalog navigation only; compatibility, replacement or substitution is not implied.

01 Allen-Bradley 1794-IE8

02 Allen-Bradley 1794-OB8EP

PRE-ENERGIZATION

Recheck identity, seating, wiring, grounding, signal mode and every applicable protective device.

FUNCTIONAL ACCEPTANCE

Review diagnostics and prove the intended response before the process is released.

Allen-Bradley 1794-OF4I

Isolated Analog Output Module / Model-specific engineering questions

What is Allen-Bradley 1794-OF4I?

It is a four-channel isolated analog output module for the FLEX I/O platform.

What is the resolution of Allen-Bradley 1794-OF4I?

The manufacturer specifies 15 bits plus sign, 0.656 microamp per count and 0.320 millivolt per count.

Which keyswitch position is required for Allen-Bradley 1794-OF4I?

The required position is 4.

What external supply does Allen-Bradley 1794-OF4I require?

The nominal supply is 24 V DC with a published operating range of 19.2 to 31.2 V DC.

Which output ranges does Allen-Bradley 1794-OF4I support?

It supports 4 to 20 mA, 0 to 20 mA, +/-10 V, 0 to 10 V, +/-5 V and 0 to 5 V configurations.

Which terminal bases support Allen-Bradley 1794-OF4I?

The installation instructions list 1794-TB2, TB3, TB3S, TB3T, TB3TS and TBN.

Can current and voltage wiring share one Allen-Bradley 1794-OF4I channel?

No. The instructions require one current or one voltage signal per channel, not both.

How is Allen-Bradley 1794-OF4I commissioned?

Verify base identity, wiring, supply, channel data format and status indication, then prove each output against the controlled field device.

VERIFIED RELATED PRODUCTS

Catalog navigation only; compatibility, replacement or substitution is not implied.

01 Allen-Bradley 1794-OB16P

Acceptance record

Identify the exact model, restored configuration, diagnostic state and witnessed response. Preserve the record with the controlled maintenance history.

Identity	Complete manufacturer and model marking verified
Configuration	Installed project, mapping, wiring or network data restored
Diagnostics	Relevant module and system indicators reviewed
Release	Intended field response witnessed and recorded

Allen-Bradley 1794-OF4I

Isolated Analog Output Module / Evidence and support

EVIDENCE BOUNDARY

Only exact manufacturer material supports the stated facts; nearby suffixes are not treated as substitutes.

DOCUMENT USE

Use this file with the installed drawing, project backup and controlled maintenance procedure.

Manufacturer	Allen-Bradley
Exact model	1794-OF4I
Product type	Isolated Analog Output Module
Product family	Allen-Bradley FLEX I/O
Evidence basis	Exact manufacturer publication

VERIFIED RELATED PRODUCTS

Catalog navigation only; compatibility, replacement or substitution is not implied.

01 Allen-Bradley 1794-IB16

MANUFACTURER SOURCE

Rockwell Automation FLEX I/O Isolated Analog Output Module Installation Instructions

Publication 1794-IN037H-EN-P, March 2024

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Supply the exact model, quantity, destination and required condition when requesting a quotation.

Technical selection remains subject to the installed-system record and exact manufacturer evidence.

