

1794-OE4XT

FLEX I/O four-channel analog output module

It converts four controller output words into independent voltage or current commands for compatible field devices on a FLEX I/O station.

PRODUCT SNAPSHOT

BRAND

Allen-Bradley

FAMILY

Allen-Bradley FLEX I/O analog system

PART

1794-OE4XT

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

It converts four controller output words into independent voltage or current commands for compatible field devices on a FLEX I/O station.

1

Provides four configurable analog output channels

2

Supports voltage and current command modes

3

Maintains customer-selected safe-state output values

4

Mounts on the documented FLEX I/O terminal bases

SYSTEM COMPONENTS

FLEX I/O adapter and backplane

1794-TB2, TB3, TB3S, TB3T, TB3TS or TBN base

24 V DC external field supply

compatible analog actuators or reference inputs

TECHNICAL NOTE

Isolate the FLEX I/O station and field supply, key the terminal base to position 4, preserve channel polarity and commons, then validate each output at low, midpoint and high command values.

TECHNICAL DATA

PARAMETER	VALUE
Catalog number	1794-OE4XT
Analog outputs	4 single-ended, non-isolated
Voltage output range	+/-10 V
Current output range	0-20 mA
Voltage resolution	2.56 mV/count
Current resolution	5.13 uA/count
Voltage output load	3 mA maximum
Current output load	15-750 ohm at 24 V DC
Data format	16-bit two's complement, left justified

PARAMETER	VALUE
External supply	24 V DC nominal
External supply range	19.2-31.2 V DC
External supply current	70 mA at 24 V DC
FlexBus current	70 mA
Keyswitch position	4
Calibration	None required
Status indicator	1 green power indicator
Operating temperature	0-55 degC
Storage temperature	-40-85 degC

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
1746-OG16	Related Allen-Bradley product	View 1746-OG16 page
1746-OBP16	Related Allen-Bradley product	View 1746-OBP16 page
1746-OAP12	Related Allen-Bradley product	View 1746-OAP12 page
1746-NIO4V	Related Allen-Bradley product	View 1746-NIO4V page
1746-IV32	Related Allen-Bradley product	View 1746-IV32 page
1746-ITV16	Related Allen-Bradley product	View 1746-ITV16 page
1746-ITB16	Related Allen-Bradley product	View 1746-ITB16 page
1746-IO8	Related Allen-Bradley product	View 1746-IO8 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Valve-positioner command outputs

Provides four configurable analog output channels

Variable-speed drive reference signals

Supports voltage and current command modes

Process setpoint generation

Maintains customer-selected safe-state output values

FLEX I/O analog-output modernization

Mounts on the documented FLEX I/O terminal bases

PRODUCT PRECAUTIONS

- 1 Verify the complete 1794-OE4XT marking and its documented Allen-Bradley FLEX I/O analog system position before field work.
- 2 Place the connected equipment in the approved maintenance state before removing 1794-OE4XT.
- 3 Isolate every applicable power, signal and stored-energy source, then prove a safe state at 1794-OE4XT.
- 4 Record the installed connectors, terminals, jumpers and channel or node assignments before disconnection.
- 5 Use ESD controls and protect keyed interfaces, edge connectors and exposed electronic assemblies.
- 6 Restore only the approved Allen-Bradley FLEX I/O analog system hardware arrangement and configuration after replacement.
- 7 Energize 1794-OE4XT in the documented sequence and review local, host and network diagnostics.
- 8 Prove the intended controlled function and retain the final acceptance record before production release.

ENGINEER FAQ

Q1 Does 1794-OE4XT match FLEX I/O adapter and backplane in a Valve-positioner command outputs installation?

Verify the complete 1794-OE4XT marking, the documented Allen-Bradley FLEX I/O analog system position and the installed FLEX I/O adapter and backplane before fitting the assembly.

Q2 How should 1794-OE4XT be wired when it must provides four configurable analog output channels?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 1794-OE4XT; then continuity-test the affected path.

Q3 Which Allen-Bradley FLEX I/O analog system records should be captured before removing 1794-OE4XT?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 1794-OE4XT before disconnection.

Q4 What controlled test confirms that 1794-OE4XT can supports voltage and current command modes?

Apply the approved field or simulated stimulus, observe the Allen-Bradley FLEX I/O analog system indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which 1794-TB2, TB3, TB3S, TB3T, TB3TS or TBN base condition should be checked when 1794-OE4XT reports an abnormal state?

Check the 1794-TB2, TB3, TB3S, TB3T, TB3TS or TBN base supply, seating and connection first, then compare channel diagnostics with the recorded 1794-OE4XT baseline.

Q6 Can 1794-OE4XT be moved directly into Variable-speed drive reference signals without validating compatible analog actuators or reference inputs?

No. Confirm the compatible analog actuators or reference inputs, revision, connection scheme and Allen-Bradley FLEX I/O analog system configuration before transferring 1794-OE4XT to that duty.

Q7 What maintenance evidence is required after 1794-OE4XT is used for Process setpoint generation?

Retain the nameplate record, corrective action, final diagnostics and a controlled process setpoint generation functional-test result for 1794-OE4XT.

Q8 How should 1794-OE4XT be returned to service in FLEX I/O analog-output modernization?

Restore power under control, verify maintains customer-selected safe-state output values, exercise the intended signal path and release 1794-OE4XT only after the Allen-Bradley FLEX I/O analog system remains in its approved operating state.

SOURCE Rockwell Automation FLEX I/O High-Density Analog Modules User Manual | 1794-UM062B-EN-P

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