SLC 500 ANALOG I/O

Product Data Sheet

1746-NO4I

Analog Current Output Module

CURRENT OUTPUT CHANNELS	NORMAL OUTPUT SPAN	D/A RESOLUTION	OUTPUT CODING
4	**0 to 20 mA**	**14 bits**	**16-bit two's complement**

Allen-Bradley 1746-NO4I is a four-channel analog current output module for SLC 500 controllers. It provides a normal 0 to 20 mA output range through 14-bit digital-to-analog conversion, using the SLC output data representation to command connected analog circuits.

01 TECHNICAL DATA

Current output channels	4
Normal output span	0 to 20 mA
D/A resolution	14 bits
Output coding	16-bit two's complement
Maximum resistive load	500 ohms
Maximum load inductance	100 microhenries
Output step response	2.5 ms to 95%
Parallel channel update	512 microseconds
5 V backplane current	55 mA
24 V backplane current	195 mA

Allen-Bradley 1746-NO4I; applicable product and connection sections.

02 ADDITIONAL PRODUCT DATA

External supply tolerance	24 V DC +/-10%
Field-to-backplane isolation	500 V DC
Operating temperature	0 to 60 degC
Output accuracy at 25 degC	+/-0.298% full scale
Output resolution	2.56348 microamps per LSB

03 PRODUCT FUNCTION

The four outputs update in parallel within 512 microseconds and reach 95% of a step change in 2.5 ms. Each output supports a resistive load up to 500 ohms and load inductance up to 100 microhenries. Backplane requirements are 55 mA at 5 V and 195 mA at 24 V; the documented external 24 V supply option is used only according to the module installation instructions.

04 SYSTEM COMPATIBILITY

Connect the current loops through the assigned terminal positions using the shielding and grounding method in the installation instructions. Keep loop resistance at or below 500 ohms and inductance at or below 100 microhenries, and preserve the distinction between field-to-backplane isolation and individual-channel isolation.

05 REFERENCE

Allen-Bradley 1746-NO4I; applicable product and connection sections.

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN **AMIKONG.COM**