WOODWARD SPC

Product Data Sheet

8200-226

Servo Position Controller

SUPPLY RANGE	ANALOG POSITION DEMAND	DEMAND INPUT IMPEDANCE	BIPOLAR DRIVE RANGES
18 to 32 V DC	**4 to 20 mA**	**200 ohm**	**+/-10, +/-25, +/-50, +/-100, +/-250 mA**

Woodward 8200-226 is an SPC servo position controller for an external actuator position loop. The SPC family combines position-demand processing, configurable actuator-drive current and redundant feedback capability. It supports a 4 to 20 mA analog position demand with 200 ohm input impedance and operates from an 18 to 32 V DC supply.

01 TECHNICAL DATA

Supply range	18 to 32 V DC
Analog position demand	4 to 20 mA
Demand input impedance	200 ohm
Bipolar drive ranges	+/-10, +/-25, +/-50, +/-100, +/-250 mA
Unipolar drive ranges	0-25, 0-50, 0-100, 0-250 mA
Dither frequency	25 Hz
Dither duty cycle	25%
Position feedback channels	2
Voltage feedback range	0 to 12 V DC or 12 to 0 V DC
Current feedback range	4 to 20 mA or 20 to 4 mA

Woodward Product Specification 03455, revision 2021; SPC driver data and connection drawings.

02 ADDITIONAL PRODUCT DATA

Position-loop accuracy at 25 C	+/-0.25% full scale
Relay-driver supply	18 to 32 V DC
Maximum relay-driver current	500 mA
Relay-driver leakage	10 microampere
Operating temperature	-40 to 70 C

03 PRODUCT FUNCTION

The driver can be configured for several bipolar or unipolar milliampere ranges, with adjustable dither at 25 Hz and 25 percent duty cycle. Two feedback channels accept the documented voltage, current or LVDT/RVDT arrangements. The family specification gives +/-0.25 percent full-scale position-loop accuracy at 25 C, while alarm and shutdown outputs use isolated FET drivers rated up to 500 mA.

04 SYSTEM COMPATIBILITY

Connect the position feedback in one of the documented voltage, current or LVDT/RVDT arrangements. The SPC supports two feedback channels, including redundant feedback selection; validate polarity and scaling for each channel before enabling the position loop.

05 REFERENCE

Woodward Product Specification 03455, revision 2021; SPC driver data and connection drawings.

AMIKON PRODUCT SUPPORT

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