

8200-226

SPC Servo Position Controller with DeviceNet

Woodward 8200-226 is an SPC Servo Position Controller with DeviceNet control and analogue backup or primary demand. It positions a hydraulic or pneumatic single-coil actuator from network or analogue demand using one or two position-feedback devices.

BRAND	Woodward	FAMILY	Woodward SPC Servo Position Controller
PART	8200-226	SYSTEM ROLE	Positions a single-coil hydraulic or pneumatic actuator

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8200-226

MANUFACTURER SOURCE RECORD

SPC Servo Position Controller
Woodward Manual 26236, Revision W

Product Overview

SYSTEM FUNCTION

Woodward 8200-226 is an SPC Servo Position Controller with DeviceNet control and analogue backup or primary demand. It positions a hydraulic or pneumatic single-coil actuator from network or analogue demand using one or two position-feedback devices.

FUNCTION 1

Positions a single-coil hydraulic or pneumatic actuator

FUNCTION 2

Combines network control with an independent analogue demand path

FUNCTION 3

Accepts one or two configured position-feedback devices

FUNCTION 4

Supports configuration, calibration, monitoring and diagnostics through the SPC Service Tool

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Woodward SPC Servo Position Controller
Primary interface	Positions a single-coil hydraulic or pneumatic actuator
Engineering context	The SPC is installed in an enclosed industrial control cabinet with the configured actuator, feedback devices, control demand, status circuits and service-tool connection.
Commissioning duty	Calibrate feedback and prove controlled actuator direction, stroke and shutdown response before release.

TECHNICAL NOTE

Connect protective earth and terminate cable shields at the documented SPC terminals. Save the configuration and DeviceNet settings before replacement, then verify actuator travel, feedback and shutdown response.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Part number	8200-226	Maximum continuous current	1.1 A
Network interface	DeviceNet	Power dissipation	20 W typical heat load
Network connector	5-pin plug-in	Analogue demand input	4 to 20 mA nominal
DeviceNet conformance	Release 2.0, Group II only slave	Demand operating range	2 to 22 mA
Nominal power input	24 V DC	Demand input impedance	200 ohm
Power-input range	18 to 32 V DC	Actuator-driver ranges	+/-10, +/-25, +/-50, +/-100, +/-250 mA

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
8280-192	Woodward digital speed control	View 8280-192 page
5437-2131	Woodward protection module	View 5437-2131 page
8280-4001	Woodward digital control module	View 8280-4001 page
5464-654	Woodward discrete output module	View 5464-654 page
5464-333	Woodward thermocouple input module	View 5464-333 page
5464-334	Woodward analogue input module	View 5464-334 page
5464-337	Woodward analogue input module	View 5464-337 page
5466-354	Woodward transceiver module	View 5466-354 page

ENGINEERING BOUNDARY

Confirm 8200-226, SPC hardware revision, actuator and feedback types, DeviceNet address and baud rate, analogue backup wiring, terminal assignments, grounding and controlled calibration results before commissioning.

Applications and Precautions

Common Applications

Turbine valve positioning

Controls the documented hydraulic or pneumatic actuator used to position a turbine steam or fuel valve.

Compressor control-valve service

Restores a networked servo-positioning channel used in an engineered compressor control system.

DeviceNet actuator integration

Exchanges position demand and status with a DeviceNet master while retaining the approved analogue path.

Redundant feedback projects

Uses the documented feedback arrangement to maintain controlled actuator-position verification.

Product Precautions

- 1

Confirm the full 8200-226 marking and the installed SPC hardware execution.
- 2

Place the driven valve and host control in the approved maintenance state and isolate stored hydraulic or pneumatic energy.
- 3

Isolate the 24 V DC supply, prove de-energization and use ESD-safe handling.
- 4

Record the DeviceNet connector, MAC address, baud setting and network termination before removal.
- 5

Record actuator-driver, demand, monitor, feedback, discrete and protective-earth terminals.
- 6

Save the complete SPC configuration and identify the correct service-interface version before replacement.
- 7

Restore wiring and configuration, then review power, network, feedback, alarm and shutdown diagnostics.
- 8

Calibrate feedback and prove controlled actuator direction, stroke and shutdown response before release.

IMPORTANT NOTICE

Confirm 8200-226, SPC hardware revision, actuator and feedback types, DeviceNet address and baud rate, analogue backup wiring, terminal assignments, grounding and controlled calibration results before commissioning.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	8200-226
Configuration	Restore wiring and configuration, then review power, network, feedback, alarm and shutdown diagnostics.
Functional release	Calibrate feedback and prove controlled actuator direction, stroke and shutdown response before release.

Engineer FAQ

Q1 What controller function does Woodward 8200-226 perform?

It positions a single-coil hydraulic or pneumatic actuator from a DeviceNet or analogue position-demand signal using the configured feedback device or devices.

Q3 What power checks are required before installing Woodward 8200-226?

Confirm the documented 24 V DC supply circuit, external switching and fuse arrangement, protective-earth connection and cabinet environmental conditions before energization.

Q5 How should Woodward 8200-226 configuration be handled during replacement?

Save the installed configuration first, record the network and terminal assignments, select the documented 8200-226 service interface and reproduce the approved parameters before reconnecting the unit.

Q7 Which diagnostics should be reviewed after starting Woodward 8200-226?

Review power, DeviceNet, demand, feedback, actuator-driver, alarm and shutdown indications before enabling controlled actuator motion.

Q2 Which network interface is fitted to Woodward 8200-226?

The 8200-226 execution uses a standard five-pin DeviceNet plug-in connector and operates as a DeviceNet Release 2.0 Group II only slave.

Q4 Which feedback devices can Woodward 8200-226 use?

The SPC can be configured for one or two voltage-output, LVDT or RVDT feedback devices, or for a single 4 to 20 mA position transducer as defined by the official manual.

Q6 How are cable shields terminated on Woodward 8200-226?

Follow the individual terminal-block diagrams: connect each shield to the documented SPC shield terminal and avoid a second field-end ground unless the manual specifies otherwise for that circuit.

Q8 What proves Woodward 8200-226 is ready for service?

Complete the documented feedback calibration and controlled direction, stroke, demand, monitor and shutdown-response checks with the host control in an approved test state.

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