

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Woodward
System family	Woodward SPC Servo Position Controller
Part number	8200-226
Product role	Positions a single-coil hydraulic or pneumatic actuator
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING 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.

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8200-226

Technical Specifications

Technical values below are limited to the named Woodward product record and directly applicable manufacturer documentation.

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

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Woodward SPC Servo Position Controller
Primary system role	Positions a single-coil hydraulic or pneumatic actuator
Connection boundary	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.
Controlled acceptance duty	Turbine valve positioning

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.

Pre-Installation Checks

- 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.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	8200-226
Installed host	Woodward SPC Servo Position Controller
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

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

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Woodward SPC Servo Position Controller
2	DeviceNet
3	Turbine valve positioning
4	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.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Woodward SPC Servo Position Controller
Interface role	Positions a single-coil hydraulic or pneumatic actuator
Field / power 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 evidence	Calibrate feedback and prove controlled actuator direction, stroke and shutdown response before release.

Installation and Connection Checks

- 1

Record actuator-driver, demand, monitor, feedback, discrete and protective-earth terminals.
- 2

Save the complete SPC configuration and identify the correct service-interface version before replacement.
- 3

Restore wiring and configuration, then review power, network, feedback, alarm and shutdown diagnostics.
- 4

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

MANUFACTURER SOURCE RECORD

SPC Servo Position Controller
Woodward Manual 26236, Revision W

Applications and Engineering Context

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.

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.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	8200-226 recorded
Host / carrier	Woodward SPC Servo Position Controller
Physical interface	Positions a single-coil hydraulic or pneumatic actuator
Configuration	Restore wiring and configuration, then review power, network, feedback, alarm and shutdown diagnostics.
Functional proof	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.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	8200-226
Approved role	Turbine valve positioning
Final validation	Calibrate feedback and prove controlled actuator direction, stroke and shutdown response before release.

Engineering 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.

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

MANUFACTURER SOURCE RECORD

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Woodward Manual 26236, Revision W

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