

APTER POWER PRODUCT MANUAL

6DR5220-0EN00-0AA0

SIPART PS2 Smart Electropneumatic Positioner

The Siemens 6DR5220-0EN00-0AA0 is a SIPART PS2 smart electropneumatic positioner for pneumatic linear and part-turn actuators. It converts a 4 to 20 mA command into controlled pneumatic actuator movement and returns diagnostic position information through HART communication.

This double-acting, intrinsically safe configuration regulates control valves and rotary actuators while compensating for mechanical behavior through its commissioning and control functions.

Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Turn 4-20 mA into Controlled Pneumatic Motion
with HART Insight.

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SCAN FOR PRODUCT & QUOTE
6DR5220-0EN00-0AA0

1. Product Overview and Identity

The Siemens 6DR5220-0EN00-0AA0 is a SIPART PS2 smart electropneumatic positioner for pneumatic linear and part-turn actuators. It converts a 4 to 20 mA command into controlled pneumatic actuator movement and returns diagnostic position information through HART communication.

This double-acting, intrinsically safe configuration regulates control valves and rotary actuators while compensating for mechanical behavior through its commissioning and control functions.

Model Configuration

Field	Verified information
Complete model	6DR5220-0EN00-0AA0
Manufacturer	Siemens
Product description	SIPART PS2 Smart Electropneumatic Positioner

Key Features

- Exact 6DR5220-0EN00-0AA0 identity retained
- Manufacturer-source data separated from unconfirmed values
- 4 to 20 mA with HART
- System context: SIPART PS2
- Model-specific lifecycle and installation guidance

2. Technical Specifications

Only manufacturer-confirmed information is stated. Values absent from the named Siemens source are marked for nameplate or document verification.

Parameter	Verified value
Input / communication	4 to 20 mA with HART
Wiring	2-, 3-, or 4-wire
Actuator action	Double acting
Enclosure	Polycarbonate
Explosion protection	Intrinsic safety Ex i
Electrical thread	1/2 inch NPT
Pneumatic thread	1/4 inch NPT
Limit monitor	Not included
Option module	Not included

Verification Note

Use the complete 6DR5220-0EN00-0AA0 identifier. Confirm the current lifecycle and certification revision with Siemens using the complete article and device nameplate. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- This double-acting, intrinsically safe configuration regulates control valves and rotary actuators while compensating for mechanical behavior through its commissioning and control functions.
- Maintains the documented SIPART PS2 system role for this exact article number.
- Provides an exact reference for engineering, maintenance, and quotation review.

Application Areas

Application	System role
Control valves	Position a double-acting linear actuator from a 4 to 20 mA command.
Rotary process dampers	Regulate a part-turn pneumatic actuator.
Asset diagnostics	Use HART data for commissioning and maintenance insight.

Compatible Components

- Pneumatic linear or part-turn actuator configured for double action
- Instrument-air supply and tubing meeting SIPART PS2 requirements
- Control system analog/HART channel and hazardous-area loop documentation

Lifecycle Status

Confirm the current lifecycle and certification revision with Siemens using the complete article and device nameplate.

4. Installation Precautions

- Verify hazardous-area certificate and loop parameters
- Use clean, dry instrument air
- Confirm double-acting pneumatic routing
- Check NPT thread compatibility
- Commission travel limits and direction before placing the valve in automatic control

STOP - Verify before installation

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Use the physical nameplate and current Siemens documents as the controlling records.

5. Official Source and Use Notice

Official source

Siemens product data sheet for 6DR5220-0EN00-0AA0.

Apter Power product page

<https://www.apterpower.com/Siemens/6DR5220-0EN00-0AA0>

Use Notice

This is an original Apter Power product-specific reference prepared from the Siemens source named above. It is not a Siemens publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.