

6DR5510-0EG00-0AA0

Siemens 6DR5510-0EG00-0AA0 is a SIPART PS2 PA electropneumatic positioner with PROFIBUS PA for single-acting linear or part-turn actuators. The exact execution uses a polycarbonate enclosure and intrinsically safe hazardous-area protection.

01

PROFIBUS PA digital process interface

02

Single-acting pneumatic actuator control

03

IP66 and NEMA Type 4X enclosure protection

04

Polycarbonate housing with M20 x 1.5 electrical entry

PA command

Digital setpoint and diagnostics

SIPART PS2

Position comparison and pneumatic metering

Actuator

Single-acting valve travel

APPLICATION BOUNDARY

Verify the full 6DR5510-0EG00-0AA0 order code, hazardous-area approval, PROFIBUS PA segment, actuator action and pneumatic limits before installation or replacement.

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Product family	Siemens SIPART PS2 PA
Communication	PROFIBUS PA
Actuator action	Single acting
Actuator types	Linear or part-turn pneumatic actuator
Housing	Polycarbonate
Bus supply	9-24 V
Supply air	1.4-7 bar

Enclosure protection	IP66 / NEMA Type 4X
Electrical entry	M20 x 1.5
Pneumatic connection	G 1/4
Hazardous-area execution	Ex ia/ib intrinsically safe
Ambient range	-30 degrees C to the applicable +50/+65/+80 degrees C temperature-class limit
Option module	None encoded
Attached gauge block	None encoded

CONFIGURATION CHECK

The exact order code identifies a single-acting SIPART PS2 PA unit in a polycarbonate housing. The rating-plate example specifies 9-24 V, 1.4-7 bar, IP66/NEMA Type 4X, M20 x 1.5 electrical entry and G 1/4 pneumatic connections; no optional module or attached gauge block is encoded.

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LINEAR CONTROL VALVE

Position a single-acting linear pneumatic actuator through the approved mechanical mounting and feedback arrangement.

PART-TURN CONTROL VALVE

Control a single-acting rotary actuator after the correct travel, direction and linkage are configured.

PROFIBUS PA LOOP

Exchange command, status and diagnostic data through an approved PA segment and intrinsic-safety design.

HAZARDOUS-AREA SERVICE

Use the documented intrinsically safe execution within its marked gas group, temperature class and ambient limits.

STATION INTEGRATION

Install the exact device with the correct actuator mounting kit, pneumatic direction and mechanical travel. Keep the bus segment, hazardous-area barriers, cable entry and equipotential bonding within the approved design, then complete initialization, stroke verification and control-loop acceptance using the installed valve and process records.

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What is Siemens 6DR5510-0EG00-0AA0?	It is a SIPART PS2 PA electropneumatic positioner with PROFIBUS PA for a single-acting linear or part-turn pneumatic actuator.
Which housing is specified by the exact order code?	The exact execution uses a polycarbonate housing.
What supply values appear on the manufacturer rating data?	The manual's exact rating-plate data specifies 9-24 V for the fieldbus-powered electronics and 1.4-7 bar supply air.
Which ingress-protection ratings are stated?	Siemens states IP66 and NEMA Type 4X for the documented execution.
Which process and cable entries are used?	The exact data specifies a G 1/4 pneumatic connection and an M20 x 1.5 electrical cable entry.
Does the order code include an option module or attached gauge block?	No. The exact ordering-code positions specify no option module and no attached gauge block.
Why must the hazardous-area marking be checked on the installed unit?	The documented execution is intrinsically safe, and the applicable temperature class changes the permitted upper ambient limit. The installed label and loop design therefore control the final acceptance boundary.

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STEP 1

Record the full 6DR5510-0EG00-0AA0 label and approval markings.

STEP 2

Isolate process pressure, actuator air and fieldbus energy before work.

STEP 3

Verify the PROFIBUS PA segment and intrinsic-safety parameters.

STEP 4

Keep supply air within the documented 1.4-7 bar range.

STEP 5

Confirm single-acting actuator action, linkage and travel direction.

STEP 6

Seal the M20 entry and G 1/4 pneumatic connections correctly.

STEP 7

Run initialization and verify the full mechanical stroke without binding.

STEP 8

Record valve response, diagnostics and as-left settings before release.

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MANUFACTURER SOURCE

Siemens SIPART PS2 PA Manual, edition 04/2005, order number A5E00127926-05, exact 6DR5510-0EG00-0AA0 rating-plate and ordering-code data

Related Siemens catalog pages

Browse related automation products. These links do not establish interchangeability.

Siemens 6ES5928-3UB12

[View Siemens 6ES5928-3UB12](#)

Siemens 16249-51-4

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Siemens 6AV6647-0AG11-3AX0

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