6DR5020-0NG00-0AA0

Siemens Smart Electropneumatic Positioner

Product scope

- Controls double-acting pneumatic actuators through M20×1.5 and G1/4 connections with without explosion protection construction.
- This ordered build accepts two-wire 4–20 mA with No HART digital communication while retaining the selected double-acting output stage.
- The configured unit uses a polycarbonate enclosure enclosure with automatic initialization and without explosion protection protection.
- Automatic initialization can drive the connected valve through its travel; isolate process risk, confirm actuator action and authorize a full-stroke test before starting commissioning.

Manufacturer source

Siemens Process Instrumentation Selection Catalog 2016 and the exact Siemens product record

This web edition retains the exact configuration summary and only directly relevant manufacturer technical pages.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	6DR5020-0NG00-0AA0	

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6DR5020-0NG00-0AA0

Siemens Smart Electropneumatic Positioner

Verified ordering configuration

6DR5020-0NG00-0AA0 selects a SIPART PS2 smart positioner with a polycarbonate enclosure, double-acting pneumatic output and without explosion protection. The order number defines M20×1.5 electrical entry and G1/4 pneumatic threads, with no limit monitor, option module, manometer block or booster. The exact suffix also governs communication, safe installation and replacement suitability.

The positioner receives Two-wire 4–20 mA, compares it with valve travel and meters instrument air so a pneumatic linear or part-turn actuator follows the commanded position. No HART digital communication supports the stated communication role, while local keys, display, automatic initialization and built-in diagnostics assist commissioning and maintenance. Control quality depends on correct linkage, actuator sizing, clean dry air and a stable supply pressure.

Before replacement, confirm single- or double-acting operation, failure position, mounting kit, feedback geometry, hazardous-area requirements and the plant command interface. Verify that existing glands and tubing match the specified threads and that the valve can move safely during initialization. Back up parameters where possible, then prove direction, full stroke, tight shutoff, alarms and controller tracking before return to service.

Technical specifications

Parameter	Verified value
Measurement / Function	valve position
Output / Command Signal	Two-wire 4–20 mA
Communication / Control Interface	No HART digital communication
Selected Span / Torque Class	Actuator travel established by initialization
Configurable Range / Travel	Linear or part-turn travel within the selected mounting geometry
Process / Pneumatic Connection	G1/4
Wetted / Service Materials	Instrument-air pneumatic components
Bolting / Mechanical Interface	Mounting-kit dependent
Installation Arrangement	Double-acting linear or part-turn actuator mounting
Housing	Polycarbonate enclosure
Electrical Connection	M20×1.5
Local Indicator	Two-line local display
Mounting Hardware	Actuator-specific mounting kit
Ordering Options	No limit monitor, option module, manometer block or booster.
Degree of Protection	Per exact SIPART PS2 enclosure and entry installation
Ambient Conditions	Per exact protection and certification variant
Process / Service Temperature	Not a pressure-transmitter process-wetted specification
Communication Load / I/O	Per selected analog or fieldbus interface
Stability / Control Performance	Control behavior established by automatic initialization
Manufacturer Reference	Siemens Process Instrumentation Selection Catalog 2016 and the exact Siemens product record

Applications

- Positions pneumatic process valves that use double-acting actuator action, M20×1.5 entries and without explosion protection construction.
- The selected assembly controls compatible linear or part-turn actuators from two-wire 4–20 mA while communicating through No HART digital communication.
- This supplied arrangement supports local commissioning and valve diagnostics where the installed assembly matches polycarbonate enclosure housing and double-acting tubing.

6DR5020-0NG00-0AA0 integration guidance

Standards

- Mounting and commissioning follow the Siemens SIPART PS2 operating instructions for linear and part-turn actuators.
- Instrument-air quality, electrical installation and enclosure sealing must meet the cited industrial practices.
- The double-acting function and without explosion protection marking must remain consistent with the valve package documentation.

Configuration

- Automatic initialization determines actuator travel, direction and control parameters after mounting.
- The setup must identify the double-acting pneumatic arrangement before the first controlled stroke.
- Limit behavior, tight-shutoff and alarm thresholds are adjusted only after a safe valve test plan is approved.

Installation

- This configuration uses M20×1.5 electrical and G1/4 pneumatic threads.
- The feedback linkage and tubing must suit a double-acting linear or part-turn actuator.
- Initialization is performed only after the valve can travel safely through the required stroke.

High-risk technical note

Automatic initialization can drive the connected valve through its travel; isolate process risk, confirm actuator action and authorize a full-stroke test before starting commissioning.

Manufacturer evidence

Siemens Process Instrumentation Selection Catalog 2016 and the exact Siemens product record
https://mall.industry.siemens.com/mall/en/de/Catalog/Product/6DR5020-0NG00-0AA0

Only exact-order information and directly applicable manufacturer-family facts are included. Unverified dimensions, weights and neighboring-model options are intentionally omitted.

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Feldgeräte für die Prozessinstrumentierung
Elektropneumatischer Stellungsregler

Übersicht

SIPART PS2

- Elektropneumatischer Stellungsregler zum Regeln von pneumatischen Schub- oder Schwenkantrieben für Ventile oder Klappen
- Ansteuerung über 0/4 bis 20 mA ohne/mit HART Kommunikation
- Weitere Kommunikationen wie PROFIBUS PA oder FOUNDATION Fieldbus erhältlich
- Vor-Ort-Bedienung über drei Tasten und ein komfortables, zweizeiliges Display
- Einfache Montage und automatisch ablaufende Inbetriebnahme
- Standardmäßiger Binäreingang im Grundgerät enthalten
- Umfangreiche Diagnosefunktionen in jedem Gerät verfügbar

Weitere Informationen und Produktvarianten finden Sie im Internet unter www.siemens.de/stellungsregler.

Auswahl- und Bestelldaten

	Ausführung	Artikel-Nr.	Preis €	Preisgruppe
Elektropneumatischer Stellungsregler				
	**SIPART PS2** Makrolongehäuse, mit fixierbarer Rutschkupplung, ohne Grenzwertmelder und Optionsmodule, mit Kurzanleitung Deutsch/Englisch, ohne angebauten Manometerblock			
	Zweileitertechnik (4 bis 20 mA)			
	Anschlussgewinde elektrisch/pneumatisch M20x1,5/G¼			
	• ohne HART-Schnittstelle, einfach wirkend, mit Explosionschutz EEx ia/ib	**6DR5010-0EG00-0AA0**	**805,00**	**812**
	• ohne HART-Schnittstelle, einfach wirkend, ohne Explosionsschutz	**6DR5010-0NG00-0AA0**	**744,00**	**812**
	• ohne HART-Schnittstelle, doppelt wirkend, mit Explosionschutz EEx ia/ib	**6DR5020-0EG00-0AA0**	**916,00**	**812**
	• ohne HART-Schnittstelle, doppelt wirkend, ohne Explosionsschutz	**6DR5020-0NG00-0AA0**	**855,00**	**812**
	• mit HART-Schnittstelle, einfach wirkend, ohne Explosionsschutz	**6DR5110-0NG00-0AA0**	**886,00**	**812**
	• mit HART-Schnittstelle, doppelt wirkend, ohne Explosionsschutz	**6DR5120-0NG00-0AA0**	**997,00**	**812**
	Zwei-/Drei-/Vierleitertechnik (0/4 bis 20 mA)			
	Anschlussgewinde elektrisch/pneumatisch M20x1,5/G¼			
	• mit HART-Schnittstelle, einfach wirkend, mit Explosionsschutz EEx ia/ib	**6DR5210-0EG00-0AA0**	**963,00**	**812**
	• mit HART-Schnittstelle, doppelt wirkend, mit Explosionsschutz EEx ia/ib	**6DR5220-0EG00-0AA0**	**1 074,00**	**812**
	• ohne HART-Schnittstelle, einfach wirkend, ohne Explosionsschutz	**6DR5310-0NG00-0AA0**	**782,00**	**812**
	• ohne HART-Schnittstelle, doppelt wirkend, ohne Explosionsschutz	**6DR5320-0NG00-0AA0**	**893,00**	**812**
	Zwei-/Drei-/Vierleitertechnik (0/4 bis 20 mA)			
	Anschlussgewinde elektrisch/pneumatisch ½-14NPT/¼-18NPT			
	• mit HART-Schnittstelle, einfach wirkend, mit Explosionsschutz EEx ia/ib	**6DR5210-0EN00-0AA0**	**963,00**	**812**
	PROFIBUS PA-Anschluss			
	Anschlussgewinde elektrisch/pneumatisch M20x1,5/G¼, ohne Explosionschutz			
	• einfach wirkend	**6DR5510-0NG00-0AA0**	**1 034,00**	**812**
	• doppelt wirkend	**6DR5520-0NG00-0AA0**	**1 145,00**	**812**
	FOUNDATION Fieldbus-Anschluss			
	Anschlussgewinde elektrisch/pneumatisch M20x1,5/G¼, ohne Explosionschutz			
	• einfach wirkend	**6DR5610-0NG00-0AA0**	**1 034,00**	**812**

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