## Positioners

### SIPART PS2

#### Selection and Ordering data

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Order code</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIPART PS2 electropneumatic positioner, in flameproof aluminium enclosure, without cable gland</td>
<td>6DR5 5 - 0 E A</td>
</tr>
</tbody>
</table>

**Version**
- 2-wire (4 to 20 mA)
  - Without HART 0
  - With HART 1
- 3-wire (G4/4 to 20 mA)
  - Without HART 2
  - With HART 3
- PROFIBUS PA connection 5
- FOUNDATION Fieldbus connection 6

**For actuator**
- Single-acting 1
- Double-acting 2

**Connection thread electrical/pneumatic**
- M20 x 1.5 / G¼ 3
- ½-14 NPT / ¼-18 NPT 4
- M20 x 1.5 / ¼-18 NPT 5
- M25x1.5 / G³/₄ 6

**Limit monitor**
- Built-in 0
- Without 1

**Option modules**
- I/O module for position feedback signal (4…20 mA) (6DR4004-SU) 0
- EMC filter module for external position sensor 2
- I/O module and EMC filter module for external position sensor 3

**Customer-specific design**
- Without 0

**Brief instructions**
- German/English A
- French/Spanish/Italian B

**Further designs**
- Add “Z” to Article No. and specify Order Code.

### TAG plate made of stainless steel, 3-line

**Text line 1:** Plain text from Y17
**Text line 2:** Plain text from Y15
**Text line 3:** Plain text from Y16

**Order code**
A20

### Functional safety (SIL 2) only for 6DR5.1 (single-action positioners)

**Device suitable for use according to IEC 61508 and IEC 61511**

- **Measuring point description**
  - Max. 16 characters for HART, max. 32 characters for PROFIBUS PA and FOUNDATION Fieldbus, specify in plain text: Y15: 

- **Measuring point text**
  - Max. 24 characters for HART, max. 32 characters for PROFIBUS PA and FOUNDATION Fieldbus, specify in plain text: Y16: 

- **Measuring point number (TAG No.)**
  - Max. 8 characters for HART, max. 32 characters for PROFIBUS PA and FOUNDATION Fieldbus, specify in plain text: Y17: 

- **Preset bus address**
  - Specify in plain text: Y25: 
  - only for 6DR5.5 and 6DR66:

**Available ex stock (select combinations)**

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### Selection and Ordering Data

**Accessories**

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Article No.</th>
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<tbody>
<tr>
<td>NCS sensor for non-contacting detection of position (not for Ex d version)</td>
<td>6DR4004-8N</td>
</tr>
<tr>
<td>Explosion protection</td>
<td>6DR4004-8B</td>
</tr>
<tr>
<td>Cable length</td>
<td>6DR4004-8P</td>
</tr>
<tr>
<td>Actuator type</td>
<td>6DR4004-8R</td>
</tr>
</tbody>
</table>

**NCS sensor**
- for position feedback signal (4...20 mA)
  - Without explosion protection
  - With explosion protection ATEX/IECEx
  - With explosion protection FM/CSA

**Alarm unit** for 3 alarm outputs and 1 binary input (functionality: 2 limit monitors, 1 fault alarm, 1 binary input)
  - Without explosion protection
  - With explosion protection ATEX/IECEx
  - With explosion protection FM/CSA

**SIA module** (solid-type initiator alarm unit, not for Ex d version)
  - Without explosion protection
  - With explosion protection ATEX/IECEx
  - With explosion protection FM/CSA

**Mechanical limit switch module** (with mechanical ground contacts, not for Ex d version)
  - Without explosion protection
  - With explosion protection ATEX/IECEx
  - With explosion protection FM/CSA

**EMC filter module** for connection of external position sensor (10 kΩ) or NCS sensor
  - Available ex stock.

**External position detection system** (with explosion protection to ATEX/IECEx) for separate mounting of position sensor and controller unit (not for Ex d version), comprising SIRAP PS2 Maktrol enclosure with integral potentiometer and sliding clutch (without electronics and valve block)

The EMC filter module is additionally required for the controller unit. (Separate ordering item, see above).

**Gauge block with**
- 2 gauges made of plastic, block made of aluminum, single-acting G¼, scaled in MPa and bar
  - Article No. 6DR4004-1M
- 3 gauges made of plastic, block made of aluminum, double-acting G¼, scaled in MPa and bar
  - Article No. 6DR4004-2M
- 2 gauges made of plastic, block made of aluminum, single-acting ¼-8 NPT, scaled in MPa and psi
  - Article No. 6DR4004-1MN
- 3 gauges made of plastic, block made of aluminum, double-acting ¼-8 NPT, scaled in MPa and psi
  - Article No. 6DR4004-2MN
- 2 gauges made of steel
  - Block made of aluminum, single-acting G¼, scaled in MPa, bar, psi
  - Article No. 6DR4004-1P
- 3 gauges made of steel
  - Block made of aluminum, single-acting ¼-8 NPT, scaled in MPa, bar, psi
  - Article No. 6DR4004-2PN
- 2 gauges made of steel
  - Block made of aluminum, double-acting ¼-8 NPT, scaled in MPa, bar, psi
  - Article No. 6DR4004-1Q
- 3 gauges made of steel
  - Block made of stainless steel 316
  - Block made of stainless steel 316, single-acting G¼, scaled in MPa, bar, psi
  - Article No. 6DR4004-2Q
- 2 gauges made of stainless steel 316
  - Block made of stainless steel 316, double-acting G¼, scaled in MPa, bar, psi
  - Article No. 6DR4004-1QN
- 3 gauges made of stainless steel 316
  - Block made of stainless steel 316, single-acting ¼-8 NPT, scaled in MPa, bar, psi
  - Article No. 6DR4004-2QN

**Pneumatic terminal block made of stainless steel 316**
- To replace the pneumatic terminal block made of stainless steel 316 (A4) without NAMUR enclosure
  - Article No. 6DR4004-1R
  - Block made of stainless steel 316, single-acting G¼, scaled in MPa, bar, psi
  - Article No. 6DR4004-2R
  - Single-acting with ¼-8 NPT
  - Article No. 6DR4004-1RN
  - Double-acting with ¼-8 NPT
  - Article No. 6DR4004-2RN

**Mounting kit for NAMUR part-turn actuators (VDI/VDE 3845, with plastic coupling wheel, without mounting console)**
- Article No. 6DR4004-8D

**Mounting kit for NAMUR part-turn actuators (VDI/VDE 3845, with stainless steel coupling, without mounting console)**
- Article No. 6DR4004-8D
- Size W x L x H (H = height of shaft butt)
  - 30 x 80 x 20 mm
  - 30 x 80 x 30 mm
  - 30 x 130 x 30 mm
  - 30 x 130 x 50 mm

**Accessories/Spare parts**

<table>
<thead>
<tr>
<th>External position detection system (with explosion protection to ATEX/IECEx) for separate mounting of position sensor and controller unit (not for Ex d version), comprising SIRAP PS2 Maktrol enclosure with integral potentiometer and sliding clutch (without electronics and valve block)</th>
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<td>Gauge block with 2 gauges made of plastic, block made of aluminum, single-acting G¼, scaled in MPa and bar</td>
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<td>Article No. 6DR4004-1P</td>
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<td>2 gauges made of steel Block made of aluminum, single-acting G¼, scaled in MPa, bar, psi</td>
<td>Article No. 6DR4004-2PN</td>
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<td>3 gauges made of steel Block made of aluminum, single-acting ¼-8 NPT, scaled in MPa, bar, psi</td>
<td>Article No. 6DR4004-1Q</td>
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<tr>
<td>2 gauges made of stainless steel 316 Block made of stainless steel 316, single-acting G¼, scaled in MPa, bar, psi</td>
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<td>Actuator type</td>
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1. Fitted with mounting console, available for order separately as accessory.
2. Mounted without NAMUR interface, individual mounting solution. Or mounted with NAMUR interface. Only a NAMUR mounting bracket can be used as mounting base (order separately as accessories).
3. Mounted with NAMUR interface. Article No. either 6DR4004-8V or 6DR4004-8V-B or 6DR4004-8BL depending on stroke range. Or mounted without NAMUR interface, individual mounting solution. Article No. 6DR4004-8V or 6DR4004-8VSL can be used as individual mounting solution depending on the stroke range.
Positioners
SIPART PS2

Selection and Ordering data
Accessories/Spare parts

Mounting kit for other part-turn actuators
The following mounting consoles can be used together with the NAMUR part-turn actuator mounting kit 6DR4004-6D.

- SPX (DEZURIK) Power Rac, sizes R1, R1A, R2 and R2A
- Masonell Camflex II
- Fisher 1051/1052/1061, sizes 30, 40, 60 to 70
- Fisher 1051/1052, size 33

Documentation (see notes below)
- Operating Instructions
  - SIPART PS2 HART German
  - SIPART PS2 HART English
  - SIPART PS2 PROFIBUS PA German
  - SIPART PS2 PROFIBUS PA English
  - SIPART PS2 FOUNDATION Fieldbus German
  - SIPART PS2 FOUNDATION Fieldbus English
  - SIPART PS2 Compact Instruction Manual
  - English, French, German, Spanish, Italian, Dutch
  - English, Estonian, Latvian, Lithuanian, Polish, Romanian
  - English, Bulgarian, Czech, Finnish, Slovakian, Slovenian
  - English, Danish, Greek, Portuguese, Swedish, Hungarian

- Operating Instructions for NCS Sensor
  - German/English/French/Italian

- SIPART PS2 device documentation
  - DVD with complete documentation for all device versions
  - 7NG4131-0AA00
  - HART modem for connecting to PC or laptop
    - with RS232 interface
    - with USB interface
    - 7MF4997-1DA
    - 7MF4997-1DB
  - Available ex stock.
  - 1) Only together with 6DR4004-8S and 6DR4004-1M.
    - Note:
      - All the above-mentioned manuals are included on DVD and can be downloaded from www.siemens.de/sipartps2.

Scope of delivery for positioner
- 1 SIPART PS2 positioner as ordered
- 1 DVD with the complete documentation for all versions and accessories
- Short manual "SIPART PS2 - Configuration At a Glance"

Selection and ordering data

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<tr>
<th>NCS-Sensor spare parts</th>
<th>Article No.</th>
</tr>
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<tbody>
<tr>
<td>Magnet holder made of fiberglass-reinforced polyester including magnet for non-contacting position detection for part-turn actuators</td>
<td>A5E00078030</td>
</tr>
<tr>
<td>Magnet holder made of anodized aluminum including magnet for non-contacting position detection for part-turn actuators</td>
<td>A5E00524070</td>
</tr>
</tbody>
</table>

Pipe mounting
Mounting bracket for pipe mounting of the SIPART PS2 positioner (e. g. when using the NCS sensor)

Additional actuator components can be found at the following Internet address: www.siemens.de/sipartps2

Customer-specific mounting kits available on request.