

| Selection and Ordering data   |                                    | Order No.               |
|---|------------------------------------|-------------------------|
| <b>Replacement measuring cell for pressure for SITRANS P DS III</b> |                                    | <b>7MF4990 - 0-0DB0</b> |
| <b>Measuring cell filling</b>                                       | <b>Measuring cell cleaning</b>     |                         |
| Silicone oil  | Normal                             | 1                       |
| Inert liquid  | grease-free to cleanliness level 2 | 3                       |
| <b>Measured span (min. ... max.)</b>                                |                                    |                         |
| 0.01 ... 1 bar  | (0.15 ... 14.5 psi)                | B                       |
| 0.04 ... 4 bar  | (0.6 ... 58 psi)                   | C                       |
| 0.16 ... 16 bar   | (2.32 ... 232 psi)                 | D                       |
| 0.63 ... 63 bar   | (9.14 ... 914 psi)                 | E                       |
| 1.6 ... 160 bar   | (23.2 ... 2320 psi)                | F                       |
| 4.0 ... 400 bar   | (58.0 ... 5802 psi)                | G                       |
| 7.0 ... 700 bar   | (102.0 ... 10153 psi)              | J                       |
| <b>Wetted parts materials</b>                                       |                                    |                         |
| Seal diaphragm  | Process connection                 |                         |
| Stainless steel   | Stainless steel                    | A                       |
| Hastelloy   | Stainless steel                    | B                       |
| Hastelloy   | Hastelloy                          | C                       |
| <b>Process connection</b>   |                                    |                         |
| • Connection shank G½B to EN 837-1                                  |                                    | 0                       |
| • Female thread ½-14 NPT  |                                    | 1                       |
| • Oval flange made of stainless steel, max. span 160 bar (2320 psi) |                                    |                         |
| - Mounting thread 7/16"-20 UNF to IEC 61518                         |                                    | 2                       |
| - Mounting thread M10 to DIN 19213                                  |                                    | 3                       |
| <b>Further designs</b>  |                                    | Order code              |
| Please add <b>"-Z"</b> to Order No. and specify Order code.         |                                    |                         |
| <b>Inspection certificate</b>                                       |                                    | <b>C12</b>              |
| to EN 10204-3.1   |                                    |                         |

| Selection and Ordering data   |                                    | Order No.                  |
|---|------------------------------------|----------------------------|
| <b>Replacement measuring cell for absolute pressure for SITRANS P DS III (from the pressure series)</b> |                                    | <b>F) 7MF4992 - 0-0DC0</b> |
| <b>Measuring cell filling</b>   | <b>Measuring cell cleaning</b>     |                            |
| Silicone oil  | Normal                             | 1                          |
| Inert liquid  | grease-free to cleanliness level 2 | 3                          |
| <b>Measured span (min. ... max.)</b>  |                                    |                            |
| 8.3 ... 250 mbar a  | (0.12 ... 3.62 psia)               | D                          |
| 43 ... 1300 mbar a  | (0.62 ... 18.85 psia)              | F                          |
| 0.16 ... 5 bar a  | (2.32 ... 72.5 psia)               | G                          |
| 1 ... 30 bar a  | (14.5 ... 435 psia)                | H                          |
| <b>Wetted parts materials</b>   |                                    |                            |
| Seal diaphragm  | Process connection                 |                            |
| Stainless steel   | Stainless steel                    | A                          |
| Hastelloy   | Stainless steel                    | B                          |
| Hastelloy   | Hastelloy                          | C                          |
| <b>Process connection</b>   |                                    |                            |
| • Connection shank G½B to EN 837-1  |                                    | 0                          |
| • Female thread ½-14 NPT  |                                    | 1                          |
| • Oval flange made of stainless steel, max. span 160 bar (2320 psi)                                     |                                    |                            |
| - Mounting thread 7/16"-20 UNF to IEC 61518   |                                    | 2                          |
| - Mounting thread M10 to DIN 19213  |                                    | 3                          |
| <b>Further designs</b>  |                                    | Order code                 |
| Please add <b>"-Z"</b> to Order No. and specify Order code.   |                                    |                            |
| <b>Inspection certificate</b>   |                                    | <b>C12</b>                 |
| to EN 10204-3.1   |                                    |                            |

F) Subject to export regulations AL: 91999, ECCN: N.

| Selection and Ordering data   | Order No.                    |
|---|------------------------------|
| <b>Replacement measuring cell for absolute pressure (from the differential pressure series)</b> for SITRANS P DS III with HART, DS III with PROFIBUS PA and DS III with FOUNDATION Fieldbus series                      | <b>7MF4993 -</b><br>- 0 DC 0 |
| <b>Measuring cell filling</b> <b>Measuring cell cleaning</b>  |                              |
| Silicone oil   Normal   | <b>1</b>                     |
| Inert liquid   grease-free to cleanliness level 2   | <b>3</b>                     |
| <b>Measured span (min. ... max.)</b>  |                              |
| 8.3 ... 250 mbar a   (0.12 ... 3.62 psia)   | <b>E) D</b>                  |
| 43 ... 1300 mbar a   (0.62 ... 18.85 psia)  | <b>E) F</b>                  |
| 0.16 ... 5 bar a   (2.32 ... 72.5 psia)   | <b>E) G</b>                  |
| 1 ... 30 bar a   (14.5 ... 435 psia)  | <b>H</b>                     |
| 5.3 ... 100 bar a   (76.9 ... 1450 psia)  | <b>KE</b>                    |
| <b>Wetted parts materials</b>   |                              |
| Seal diaphragm   Parts of measuring cell  |                              |
| Stainless steel   Stainless steel   | <b>A</b>                     |
| Hastelloy   Stainless steel   | <b>B</b>                     |
| Hastelloy   Hastelloy   | <b>C</b>                     |
| Tantalum   Tantalum   | <b>E</b>                     |
| Monel   Monel   | <b>E) H</b>                  |
| Gold   Gold   | <b>L</b>                     |
| <b>Process connection</b>   |                              |
| Female thread 1/4-18 NPT with flange connection   |                              |
| • Sealing screw opposite process connection   |                              |
| - Mounting thread M10 to DIN 19213  | <b>0</b>                     |
| - Mounting thread 7/16-20 UNF to IEC 61518  | <b>2</b>                     |
| • Vent on side of process flange <sup>1)</sup>  |                              |
| - Mounting thread M10 to DIN 19213  | <b>4</b>                     |
| - Mounting thread 7/16-20 UNF to IEC 61518  | <b>6</b>                     |
| <b>Non-wetted parts materials</b>   |                              |
| • Stainless steel process flange screws   | <b>2</b>                     |
| <b>Further designs</b>  | Order code                   |
| Please add <b>"-Z"</b> to Order No. and specify Order code.   |                              |
| <b>O-rings for process flanges</b> (instead of FPM (Viton))   |                              |
| • PTFE (Teflon)   | <b>A20</b>                   |
| • FEP (with silicone core, approved for food)   | <b>A21</b>                   |
| • FFFPM (Kalrez, compound 4079)   | <b>A22</b>                   |
| • NBR (Buna N)  | <b>A23</b>                   |
| <b>Inspection certificate</b> to EN 10204-3.1   | <b>C12</b>                   |
| <b>Process connection G1/2B</b>   | <b>D16</b>                   |
| <b>Remote seal flanges</b> (not together with K01, K02 and K04)   | <b>D20</b>                   |
| <b>Vent on side for gas measurements</b>  | <b>H02</b>                   |
| <b>Process flanges</b>  |                              |
| • without   | <b>K00</b>                   |
| • with process flange made of   |                              |
| - Hastelloy   | <b>K01</b>                   |
| - Monel   | <b>K02</b>                   |
| - Stainless steel with PVDF insert max. PN 10 (MAWP 145 psi) max. temperature of medium 90 °C (194 °F) For 1/2-14 NPT inner process connection on the side in the middle of the process flange, vent valve not possible | <b>K04</b>                   |

1) Not for span "5.3 ... 100 bar (76.9 ... 1450 psi)"  
E) Subject to the export regulations AL: 2B230, ECCN: N.  
F) Subject to export regulations AL: 9I999, ECCN: N.

| Selection and Ordering data   | Order No.                    |
|---|------------------------------|
| <b>Replacement measuring cell for differential pressure and PN 32/160 (MAWP 464/2320 psi)</b> for SITRANS P DS III with HART, DS III with PROFIBUS PA and DS III with FOUNDATION Fieldbus series                        | <b>7MF4994 -</b><br>- 0 DC 0 |
| <b>Measuring cell filling</b> <b>Measuring cell cleaning</b>  |                              |
| Silicone oil   Normal   | <b>1</b>                     |
| Inert liquid   grease-free to cleanliness level 2   | <b>3</b>                     |
| <b>Measured span (min. ... max.)</b>  |                              |
| <b>PN 32 (MAWP 464 psi)</b>   |                              |
| 1 ... 20 mbar <sup>1)</sup> (0.4 ... 8 inH <sub>2</sub> O)  | <b>B</b>                     |
| <b>PN 160 (MAWP 2320 psi)</b>   |                              |
| 1 ... 60 mbar   (0.4 ... 24 inH <sub>2</sub> O)   | <b>C</b>                     |
| 2.5 ... 250 mbar   (1 ... 100 inH <sub>2</sub> O)   | <b>D</b>                     |
| 6 ... 600 mbar   (2.4 ... 240 inH <sub>2</sub> O)   | <b>E</b>                     |
| 16 ... 1600 mbar   (6.4 ... 642 inH <sub>2</sub> O)   | <b>F</b>                     |
| 50 ... 5000 mbar   (20 ... 2000 inH <sub>2</sub> O)   | <b>G</b>                     |
| 0.3 ... 30 bar   (4.35 ... 435 psi)   | <b>H</b>                     |
| <b>Wetted parts materials</b> (stainless steel process flanges)   |                              |
| Seal diaphragm   Parts of measuring cell  |                              |
| Stainless steel   Stainless steel   | <b>A</b>                     |
| Hastelloy   Stainless steel   | <b>B</b>                     |
| Hastelloy   Hastelloy   | <b>C</b>                     |
| Tantalum <sup>2)</sup> Tantalum   | <b>E</b>                     |
| Monel <sup>2)</sup> Monel   | <b>H</b>                     |
| Gold <sup>2)</sup> Gold   | <b>L</b>                     |
| <b>Process connection</b>   |                              |
| Female thread 1/4-18 NPT with flange connection   |                              |
| • Sealing screw opposite process connection   |                              |
| - Mounting thread M10 to DIN 19213  | <b>0</b>                     |
| - Mounting thread 7/16-20 UNF to IEC 61518  | <b>2</b>                     |
| • Vent on side of process flange  |                              |
| - Mounting thread M10 to DIN 19213  | <b>4</b>                     |
| - Mounting thread 7/16-20 UNF to IEC 61518  | <b>6</b>                     |
| <b>Non-wetted parts materials</b>   |                              |
| Stainless steel process flange screws   | <b>2</b>                     |
| <b>Further designs</b>  | Order code                   |
| Please add <b>"-Z"</b> to Order No. and specify Order code.   |                              |
| <b>O-rings for process flanges</b> (instead of FPM (Viton))   |                              |
| • PTFE (Teflon)   | <b>A20</b>                   |
| • FEP (with silicone core, approved for food)   | <b>A21</b>                   |
| • FFFPM (Kalrez, compound 4079)   | <b>A22</b>                   |
| • NBR (Buna N)  | <b>A23</b>                   |
| <b>Inspection certificate</b> to EN 10204-3.1   | <b>C12</b>                   |
| <b>Remote seal flanges</b> (not together with K01, K02 and K04)   | <b>D20</b>                   |
| <b>Vent on side for gas measurements</b>  | <b>H02</b>                   |
| <b>Stainless steel process flanges for vertical differential pressure lines</b> (not together with K01, K02 and K04)  | <b>H03</b>                   |
| <b>Process flanges</b>  |                              |
| • without   | <b>K00</b>                   |
| • with process flange made of   |                              |
| - Hastelloy   | <b>K01</b>                   |
| - Monel   | <b>K02</b>                   |
| - Stainless steel with PVDF insert max. PN 10 (MAWP 145 psi) max. temperature of medium 90 °C (194 °F) For 1/2-14 NPT inner process connection on the side in the middle of the process flange, vent valve not possible | <b>K04</b>                   |

1) Not suitable for connection of remote seal  
2) Only together with max. spans 250, 1600, 5000 and 30000 mbar (100 inH<sub>2</sub>O, 642 inH<sub>2</sub>O, 2000 inH<sub>2</sub>O und 435 psi).

**Selection and Ordering data**

Order No.

**Replacement measuring cell for differential pressure and PN 420 (MAWP 6092 psi)** for SITRANS P DS III with HART, DS III with PROFIBUS PA and DS III with FOUNDATION Fieldbus series

7MF4995 -  
- 0DC0

| Measuring cell filling | Measuring cell cleaning |
|------------------------|-------------------------|
| Silicone oil           | Normal                  |

1

**Measured span (min. ... max.)**

|                  |                                  |
|------------------|----------------------------------|
| 2.5 ... 250 mbar | (1 ... 100 inH <sub>2</sub> O)   |
| 6 ... 600 mbar   | (2.4 ... 240 inH <sub>2</sub> O) |
| 16 ... 1600 mbar | (6.4 ... 642 inH <sub>2</sub> O) |
| 50 ... 5000 mbar | (20 ... 2000 inH <sub>2</sub> O) |
| 0.3 ... 30 bar   | (4.35 ... 435 psi)               |

D  
E  
F  
G  
H

**Wetted parts materials**

(stainless steel process flanges)

| Seal diaphragm     | Parts of measuring cell |
|--------------------|-------------------------|
| Stainless steel    | Stainless steel         |
| Hastelloy          | Stainless steel         |
| Gold <sup>1)</sup> | Gold                    |

A  
B  
L

**Process connection**

Female thread 1/4-18 NPT with flange connection

- Sealing screw opposite process connection
  - Mounting thread M12 to DIN 19213
  - Mounting thread 7/16-20 UNF to IEC 61518
- Vent on side of process flange
  - Mounting thread M12 to DIN 19213
  - Mounting thread 7/16-20 UNF to IEC 61518

1  
3  
5  
7

**Non-wetted parts materials**

- Stainless steel process flange screws

2

**Further designs**

Order code

Please add "-Z" to Order No. and specify Order code.

**O-rings for process flanges**

(instead of FPM (Viton))

- PTFE (Teflon)
- FEP (with silicone core, approved for food)
- FFKM (Kalrez, compound 4079)
- NBR (Buna N)

A20  
A21  
A22  
A23

**Inspection certificate**

to EN 10204-3.1

C12

**Stainless steel process flanges for vertical differential pressure lines**

H03

**without process flanges**

K00

<sup>1)</sup> Not together with max. span 600 mbar (240.9 inH<sub>2</sub>O)



**Operating Instructions<sup>1)</sup>**

- for SITRANS DS III with HART

- German
- English
- French
- Spanish
- Italian

**A5E00047090**  
**A5E00047092**  
**A5E00053218**  
**A5E00053219**  
**A5E00053220**

- for SITRANS DS III with PROFIBUS PA

- German
- English
- French
- Spanish
- Italian

**A5E00053275**  
**A5E00053276**  
**A5E00053277**  
**A5E00053278**  
**A5E00053279**

- for SITRANS DS III with FOUNDATION Fieldbus

- German
- English

**A5E00279629**  
**A5E00279627**

**Brief instruction (Leporello)**

German, English

- for SITRANS DS III with HART

- German, English

**A5E00047093**

- for SITRANS DS III with PROFIBUS PA

- German, English

**A5E00053274**

- for SITRANS DS III with FOUNDATION Fieldbus

- German, English

**A5E00282355**

**CD with documentation**

for SITRANS P, P300 series, SITRANS P DS III with HART, DS III with PROFIBUS PA and DS III with FOUNDATION Fieldbus series

German, English, French, Spanish, Italian

**A5E00090345**

**Certificates (order only via SAP)**

instead of Internet download

- hard copy (to order)
- on CD (to order)

**A5E03252406**  
**A5E03252407**

**Operating Instructions**

for replacement of electronics, measuring cell and connection board (only available from the Internet)<sup>1)</sup>

**A5E00078060**

**HART modem**

- with RS232 interface ▶
- with USB interface ▶

**7MF4997-1DA**  
**7MF4997-1DB**

**Supplementary electronics for 4-wire connection**

▶ available ex stock

**See page 2/151**

Power supply units see Chap. 8 "Supplementary Components".

<sup>1)</sup> You can download these operating instructions free-of-charge from our Internet site at [www.siemens.com/sitransp](http://www.siemens.com/sitransp).

D) Subject to export regulations AL: N, ECCN: EAR99H.