

Selection and Ordering data

Order No.

Replacement measuring cell for pressure
for SITRANS P, DS III, DS III PA and DS III FF series

7MF4990 -

0 - 0 DC 0

Measuring cell filling Measuring cell cleaning

Silicone oil

Normal

1

Inert liquid

Grease-free

3

Measured span

0.01 ... 1 bar g

(0.15 ... 14.5 psi g)

B

0.04 ... 4 bar g

(0.6 ... 58 psi g)

C

0.16 ... 16 bar g

(2.32 ... 232 psi g)

D

0.63 ... 63 bar g

(9.14 ... 914 psi g)

E

1.6 ... 160 bar g

(23.2 ... 2320 psi g)

F

4.0 ... 400 bar g

(58.0 ... 5802 psi g)

G

7.0 ... 700 bar g

(102.0 ... 10153 psi g)

J

Wetted parts materials

Seal diaphragm

Process connection

Stainless steel

Stainless steel

A

Hastelloy

Stainless steel

B

Hastelloy

Hastelloy

C

Process connection• Connection shank G $\frac{1}{2}$ B to EN 837-1• Female thread $\frac{1}{2}$ -14 NPT• Oval flange made of stainless steel,
max. span 160 bar (2320 psi)- Mounting thread $\frac{7}{16}$ -20 UNF to EN 61518

- Mounting thread M10 to DIN 19213

0

1

2

3

Further designsPlease add **"-Z"** to Order No. and specify
Order code.

Order code

Inspection certificate

to EN 10204-3.1

C12**Selection and Ordering data**

Order No.

**Replacement measuring cell for absolute
pressure (from the pressure series)**
for SITRANS P, DS III, DS III PA and DS III FF series

F) 7MF4992 -

0 - 0 DC 0

Measuring cell filling Measuring cell cleaning

Silicone oil

Normal

1

Inert liquid

Grease-free

3

Measured span

8.3 ... 250 mbar a

(0.12 ... 3.63 psi a)

D

43 ... 1300 mbar a

(0.62 ... 18.9 psi a)

F

0.16 ... 5 bar a

(2.32 ... 72.5 psi a)

G

1 ... 30 bar a

(14.5 ... 435 psi a)

H

Wetted parts materials

Seal diaphragm

Process connection

Stainless steel

Stainless steel

A

Hastelloy

Stainless steel

B

Hastelloy

Hastelloy

C

Process connection• Connection shank G $\frac{1}{2}$ B to EN 837-1• Female thread $\frac{1}{2}$ -14 NPT• Oval flange made of stainless steel,
max. span 160 bar (2320 psi)- Mounting thread $\frac{7}{16}$ -20 UNF to EN 61518

- Mounting thread M10 to DIN 19213

0

1

2

3

Further designsPlease add **"-Z"** to Order No. and specify
Order code.

Order code

Inspection certificate

to EN 10204-3.1

C12

F) Subject to export regulations AL: 9I999, ECCN: N.

| Selection and Ordering data | Order No. |
|---|------------------------|
| <i>Spare parts / Accessories</i> | |
| Replacement measuring cell for absolute pressure (from the differential pressure series) for SITRANS P, DS III, DS III PA and DS III FF series | F) 7MF4993 - - 0DC0 |
| Measuring cell filling Measuring cell cleaning | |
| Silicone oil Normal | 1 |
| Inert liquid Grease-free | 3 |
| Measured span | |
| 8.3 ... 250 mbar a (0.12 ... 3.63 psi a) | E) D |
| 43 ... 1300 mbar a (0.62 ... 18.9 psi a) | E) F |
| 0.16 ... 5 bar a (2.32 ... 72.5 psi a) | E) G |
| 1 ... 30 bar a (14.5 ... 435 psi a) | H |
| 5.3 ... 100 bar a (76.9 ... 1450 psi a) | KE |
| Wetted parts materials | |
| Seal diaphragm Parts of measuring cell | |
| Stainless steel Stainless steel | A |
| Hastelloy Stainless steel | B |
| Hastelloy Hastelloy | C |
| Tantalum Tantalum | E |
| Monel Monel | E) H |
| Gold Gold | L |
| Process connection | |
| Female thread 1/4-18 NPT with flange connection | |
| • Sealing screw opposite process connection | |
| - Mounting thread M10 to DIN 19213 | 0 |
| - Mounting thread 7/16-20 UNF to EN 61518 | 2 |
| • Vent on side of process flange ¹⁾ | |
| - Mounting thread M10 to DIN 19213 | 4 |
| - Mounting thread 7/16-20 UNF to EN 61518 | 6 |
| Non-wetted parts materials | |
| • Stainless steel process flange screws | 2 |
| <i>Further designs</i> | Order code |
| Please add "-Z" to Order No. and specify Order code. | |
| O-rings for process flanges (instead of FPM (Viton)) | |
| • PTFE (Teflon) | A20 |
| • FEP (with silicone core, approved for food) | A21 |
| • FFFPM (Kalrez, compound 4079) | A22 |
| • NBR (Buna N) | A23 |
| Inspection certificate to EN 10204-3.1 | C12 |
| Process connection G½B | D16 |
| Remote seal flanges (not together with K01, K02 and K04) | D20 |
| Vent on side for gas measurements | H02 |
| Process flanges | |
| • without | K00 |
| • with process flange made of | |
| - Hastelloy | K01 |
| - Monel | K02 |
| - Stainless steel with PVDF insert max. PN 10 (MWP 145 psi) max. temperature of medium 90 °C (194 °F) | K04 |

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. |
|--|---------------------|
| <i>Spare parts / Accessories</i> | |
| Replacement measuring cell for differential pressure and PN 32/160 (MWP 464/2320 psi) for SITRANS P, DS III, DS III PA and DS III FF series | 7MF4994 - - 0DC0 |
| Measuring cell filling Measuring cell cleaning | |
| Silicone oil Normal | 1 |
| Inert liquid Grease-free | 3 |
| Measured span | |
| <u>PN 32 (MWP 464 psi)</u> | |
| 1 ... 20 mbar ¹⁾ (0.4 ... 8 inH ₂ O) | B |
| <u>PN 160 (MWP 2320 psi)</u> | |
| 1 ... 60 mbar (0.4 ... 24 inH ₂ O) | C |
| 2.5 ... 250 mbar (1 ... 100 inH ₂ O) | D |
| 6 ... 600 mbar (2.4 ... 240 inH ₂ O) | E |
| 16 ... 1600 mbar (6.4 ... 642 inH ₂ O) | F |
| 50 ... 5000 mbar (20 ... 2000 inH ₂ O) | G |
| 0.3 ... 30 bar (4.35 ... 435 psi) | H |
| Wetted parts materials (stainless steel process flanges) | |
| Seal diaphragm Parts of measuring cell | |
| Stainless steel Stainless steel | A |
| Hastelloy Stainless steel | B |
| Hastelloy Hastelloy | C |
| Tantalum ²⁾ Tantalum | E |
| Monel ²⁾ Monel | H |
| Gold ²⁾ Gold | L |
| Process connection | |
| Female thread 1/4-18 NPT with flange connection | |
| • Sealing screw opposite process connection | |
| - Mounting thread M10 to DIN 19213 | 0 |
| - Mounting thread 7/16-20 UNF to EN 61518 | 2 |
| • Vent on side of process flange | |
| - Mounting thread M10 to DIN 19213 | 4 |
| - Mounting thread 7/16-20 UNF to EN 61518 | 6 |
| Non-wetted parts materials | |
| Stainless steel process flange screws | 2 |
| <i>Further designs</i> | Order code |
| Please add "-Z" to Order No. and specify Order code. | |
| O-rings for process flanges (instead of FPM (Viton)) | |
| • PTFE (Teflon) | A20 |
| • FEP (with silicone core, approved for food) | A21 |
| • FFFPM (Kalrez, compound 4079) | A22 |
| • NBR (Buna N) | A23 |
| Inspection certificate to EN 10204-3.1 | C12 |
| Remote seal flanges (not together with K01, K02 and K04) | D20 |
| Vent on side for gas measurements | H02 |
| Stainless steel process flanges for vertical differential pressure lines (not together with K01, K02 and K04) | H03 |
| Process flanges | |
| • without | K00 |
| • with process flange made of | |
| - Hastelloy | K01 |
| - Monel | K02 |
| - Stainless steel with PVDF insert max. PN 10 (MWP 145 psi) max. temperature of medium 90 °C (194 °F) | K04 |


1) Not suitable for connection of remote seal
2) Only together with max. spans 250, 1600, 5000 and 30000 mbar (3.63, 23.2, 72.5 and 435 psi).

Selection and Ordering data

Order No.

Spare parts / Accessories

Replacement measuring cell for differential pressure and PN 420 (MWP 6092 psi) for SITRANS P, DS III, DS III PA and DS III FF series

7MF4995 -
 - 0 DC 0

Measuring cell filling

Silicone oil

Measuring cell cleaning

Normal

1

Measured span

| | |
|------------------|----------------------------------|
| 2.5 ... 250 mbar | (1 ... 100 inH ₂ O) |
| 6 ... 600 mbar | (2.4 ... 240 inH ₂ O) |
| 16 ... 1600 mbar | (6.4 ... 642 inH ₂ O) |
| 50 ... 5000 mbar | (20 ... 2000 inH ₂ 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

Gold¹⁾

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 EN 61518
- Vent on side of process flange
 - Mounting thread M12 to DIN 19213
 - Mounting thread 7/16-20 UNF to EN 61518

1
3
5
7

Non-wetted parts materials

- Stainless steel process flange screws

2

Further designs

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

Order code

O-rings for process flanges

(instead of FPM (Viton))

- PTFE (Teflon)
- FEP (with silicone core, approved for food)
- FFPM (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

Selection and Ordering data

Order No.

Spare parts / Accessories

Replacement measuring cell for level for SITRANS P, DS III, DS III PA and DS III FF series

7MF4996 -
 - 0 DC 0

Measuring cell filling

Silicone oil

Measuring cell cleaning

Normal

1

Rated measuring range

| | |
|-----------|------------|
| 250 mbar | (3.63 psi) |
| 600 mbar | (8.70 psi) |
| 1600 mbar | (23.2 psi) |
| 5 bar | (72.5 psi) |

D
E
F
G

Wetted parts materials

(stainless steel process flanges)

Seal diaphragm

Parts of measuring cell

Stainless steel

Stainless steel

A

Process connection of low-pressure side

Female thread 1/4-18 NPT with flange connection

- Sealing screw opposite process connection
 - Mounting thread M10 to DIN 19213
 - Mounting thread 7/16-20 UNF to EN 61518

0
2

Non-wetted parts materials

- Stainless steel process flange screws

2

Further designs

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

Order code

O-rings for process flanges

(instead of FPM (Viton))

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

A20
A21
A22
A23

Inspection certificate

to EN 10204-3.1

C12

without process flanges

K00

¹⁾ Not together with max. span 600 mbar (240.9 inH₂O)

| Selection and Ordering data | Order No. |
|--|---|
| Spare parts / Accessories | |
| Mounting bracket and fastening parts for pressure transmitters SITRANS P DS III, DS III PA and DS III FF (7MF403-.....-..C.) For absolute pressure transmitters SITRANS P DS III, DS III PA and DS III FF (7MF423-.....-..C.) • made of steel • made of stainless steel | 7MF4997-1AB 7MF4997-1AH |
| Mounting bracket and fastening parts for pressure transmitters SITRANS P DS III, DS III PA and DS III FF (7MF403-.....-..A., -..B., ..D. and ..F.) For absolute pressure transmitters SITRANS P DS III, DS III PA and DS III FF (7MF423-.....-..A., -..B., ..D. and ..F.) • made of steel • made of stainless steel ▶ | 7MF4997-1AC 7MF4997-1AJ |
| Mounting and fastening brackets For differential pressure transmitters with flange thread M10 SITRANS P DS III, DS III PA and DS III FF (7MF433-.... and 7MF443-....) • made of steel • made of stainless steel ▶ | 7MF4997-1AD 7MF4997-1AK |
| Mounting and fastening brackets For differential pressure transmitters with flange thread M12 SITRANS P DS III, DS III PA and DS III FF (7MF453-....) • made of steel • made of stainless steel | 7MF4997-1AE 7MF4997-1AL |
| Mounting and fastening brackets For differential and absolute pressure transmitters with flange thread 7/16 -20 UNF SITRANS P DS III, DS III PA DS III FF (7MF433-...., 7MF443-.... and 7MF453-....) • made of steel • made of stainless steel | 7MF4997-1AF 7MF4997-1AM |
| Cover made of die-cast aluminum, including gasket, for SITRANS DS III, DS III PA and DS III FF • without window F) • with window ▶ F) | 7MF4997-1BB 7MF4997-1BE |
| Cover made of stainless steel, including gasket, for SITRANS DS III, DS III PA and DS III FF • without window F) • with window F) | 7MF4997-1BC 7MF4997-1BF |
| Digital indicator Including mounting material for SITRANS DS III, DS III PA and DS III FF | 7MF4997-1BR |
| Measuring point label • without inscription (5 units) • Printed (1 unit) Data according to Y01 or Y02, Y15 and Y16 (see "Pressure transmitters") | 7MF4997-1CA 7MF4997-1CB-Z Y..: |

| Selection and Ordering data | Order No. |
|--|--|
| Mounting screws For measuring point label, grounding and connection terminals or for digital indicator (50 units) | 7MF4997-1CD |
| Sealing screws (1 set = 2 units) for process flange • made of stainless steel • made of Hastelloy | 7MF4997-1CG 7MF4997-1CH |
| Sealing screws with vent valve Complete (1 set = 2 units) • made of stainless steel ▶ • made of Hastelloy | 7MF4997-1CP 7MF4997-1CQ |
| Electronics • for SITRANS P DS III • for SITRANS P DS III • for SITRANS P DS III | 7MF4997-1DK 7MF4997-1DL 7MF4997-1DM |
| Connection board • for SITRANS P DS III • for SITRANS P DS III PA and FF | 7MF4997-1DN 7MF4997-1DP |
| O-rings for process flanges made of: • FPM (Viton) F) • PTFE (Teflon) F) • FEP (with silicone core, approved for food) F) • FFFPM (Kalrez, compound 4079) F) • NBR (Buna N) F) | 7MF4997-2DA 7MF4997-2DB 7MF4997-2DC 7MF4997-2DD 7MF4997-2DE |
| Sealing ring for process connection | see "Fittings" |
| Weldable sockets for PMC connection • PMC Style Standard: Thread 1½" • PMC Style Minibolt: front-flush 1" | 7MF4997-2HA 7MF4997-2HB |
| Gaskets for PMC connection (packing unit = 5 units) • PTFE seal for PMC Style Standard: Thread 1½" F) • Gasket made of Viton for PMC Style Minibolt: front-flush 1" F) | 7MF4997-2HC 7MF4997-2HD |
| Weldable socket for TG52/50 and TG52/150 connection • TG52/50 connection • TG52/150 connection | 7MF4997-2HE 7MF4997-2HF |
| Seals for TG 52/50 and TG 52/150 made of silicone | 7MF4997-2HG |
| Seals for flange connection with front-flush diaphragm Material FPM (Viton), 10 units • DN 25, PN 40 (M11) F) • DN 25, PN 100 (M21) F) • 1", class 150 (M40) F) • 1", class 300 (M45) F) | 7MF4997-2HH 7MF4997-2HJ 7MF4997-2HK 7MF4997-2HL |

▶ available ex stock

F) Subject to export regulations AL: 9I999, ECCN: N.

Operating Instructions¹⁾

- for SITRANS DS III
 - German **A5E00047090**
 - English **A5E00047092**
 - French **A5E00053218**
 - Spanish **A5E00053219**
 - Italian **A5E00053220**
- for SITRANS DS III PA
 - German **A5E00053275**
 - English **A5E00053276**
 - French **A5E00053277**
 - Spanish **A5E00053278**
 - Italian **A5E00053279**
- for SITRANS DS III FF
 - German **A5E00279629**
 - English **A5E00279627**
 - French (planned) **A5E00279630**
 - Spanish (planned) **A5E00279632**
 - Italian (planned) **A5E00279631**

Brief instructions (Leporello)

- German, English
- for SITRANS DS III series, German, English **A5E00047093**
 - for SITRANS DS III PA, German, English **A5E00053274**
 - for SITRANS DS III FF (Available soon) **A5E00282355**

CD with documentation

- for SITRANS P, P300 series, DS III, DS III PA and DS III FF
- German, English, French, Spanish, Italian **A5E00090345**

Certificates (order only via SAP)

- instead of Internet download
- hard copy (to order) **A5E03252406**
 - on CD (to order) **A5E03252407**

Operating Instructions

- for replacement of electronics, measuring cell and connection board (only available from the Internet)¹⁾
- ▶ **A5E00078060**

HART modem

- with RS232 interface ▶ **7MF4997-1DA**
D)
- with USB interface ▶ **7MF4997-1DB**
D)

Supplementary electronics for 4-wire connection

- ▶ available ex stock

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

¹⁾ You can download these operating instructions free-of-charge from our Internet site at www.siemens.de/sitransp.