

Selection and Ordering data

Order No.

SITRANS P pressure transmitters for gauge pressure, with PMC connection series DS III HART F)

7 MF 4 1 3 3 -

Measuring cell filling**Measuring cell cleaning**

Silicone oil
Inert liquid

normal
Grease-free

1
3**Measuring span**0,01 ... 1 bar g¹⁾(0.15 ... 14.5 psi g¹⁾)

0.04 ... 4 bar g

(0.58 ... 58 psi g)

0.16 ... 16 bar g

(2.32 ... 232 psi g)

B
C
D**Wetted parts materials**

Seal diaphragm Connection shank

Hastelloy Stainless steel

B

Process connection

- PMC Style Standard: Thread 1½"
- PMC Style Minibolt: front-flush 1" (not with minimum span: 500 mbar (7.25 psi) - version "B")

2
3**Non-wetted parts materials**

- Housing made of die-cast aluminium
- Housing stainless steel precision casting

0
3**Version**

- Standard versions
- International version, English label inscriptions, documentation in 5 languages on CD

1
2**Explosion protection**

- None

A

Electrical connection / cable entry

- Female thread M20 x 1.5
- Female thread ½-14 NPT
- M12 connectors (metal)²⁾

B
C
F**Display**

- Without indicator
- Without visible digital indicator (digital-indicator concealed, setting: mA)
- With visible digital indicator
- With customer-specific digital indicator (setting as specified, Order Code "Y21" required)

0
1
6
7

▶ Available ex stock

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

Included in delivery of the device:

- Brief instructions (Leporello)
- CD-ROM with detailed documentation
- sealing ring

1) Only with "PMC Style Standard" process connection

2) M12 delivered without cable socket

Selection and Ordering data

Order No.

SITRANS P pressure transmitter for gauge pressure, with PMC connection

DS III PA (PROFIBUS PA) F)

7 MF 4 1 3 4 -

DS III FF (FOUNDATION Fieldbus) F)

7 MF 4 1 3 5 -

Measuring cell filling**Measuring cell cleaning**

Silicone oil
Inert liquid

normal
Grease-free

1
3**Nominal measuring range**1 bar g¹⁾(14.5 psi g¹⁾)

4 bar g

(58 psi g)

16 bar g

(232 psi g)

B
C
D**Wetted parts materials**

Seal diaphragm Connection shank

Hastelloy Stainless steel

B

Process connection²⁾

- PMC Style Standard: Thread 1½"
- PMC Style Minibolt: front-flush 1" (minimum span: 500 mbar (7.25 psi), not available with 1-bar-measuring cell (Option B))

2
3**Non-wetted parts materials**

- Housing made of die-cast aluminium
- Housing stainless steel precision casting

0
3**Version**

- Standard versions
- International version, English label inscriptions, documentation in 5 languages on CD

1
2**Explosion protection**

- None

A

Electrical connection / cable entry

- Screwed gland M20x1.5
- Screwed gland ½-14 NPT
- M12 connectors (metal)³⁾

B
C
F**Display**

- Without indicator
- Without visible digital indicator (digital-indicator concealed, setting: mA)
- With visible digital indicator
- With customer-specific digital indicator (setting as specified, Order Code "Y21" required)

0
1
6
7

▶ Available ex stock

Included in delivery of the device:

- Brief instructions (Leporello)
- CD-ROM with detailed documentation
- sealing ring

1) Only with "PMC Style Standard" process connection

2) Sealing is included in delivery.

3) M12 delivered without cable socket

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

Selection and Ordering data	Order code		
<i>Further designs</i>	HART	PA	FF
Add "-Z" to Order No. and specify Order Code.			
Plug			
• Angled	A32	✓	
• Han 8D (metal, gray)	A33	✓	
M12 cable sockets (metal)	A50	✓	✓
Rating plate inscription (instead of German)			
• English	B11	✓	✓
• French	B12	✓	✓
• Spanish	B13	✓	✓
• Italian	B14	✓	✓
English rating plate Pressure units in inH ₂ O and/or psi	B21	✓	✓
Quality inspection certificate (factory calibration) to IEC 60770-2	C11	✓	✓
Inspection certificate Acc. to EN 10204-3.1	C12	✓	✓
Factory certificate Acc. to EN 10204-2.2	C14	✓	✓
"Functional safety (SIL2)" certificate	C20	✓	
"Functional safety (SIL2/3)" certificate	C23	✓	
Output signal can be set to upper limit of 22.0mA	D05	✓	✓
Degree of protection IP68 (only for M20 x 1.5 and ½-14 NPT)	D12	✓	✓
Mounting			
• Weldable sockets for standard 1½" threaded connection	P01	✓	✓
• Weldable socket for minibolt connection 1" (incl. screw 5/16-18 UNC-2B and washer)	P02	✓	✓

Selection and Ordering data	Order code		
<i>Additional data</i>	HART	PA	FF
Please add "-Z" to Order No. and specify Order code(s) and plain text.			
Measuring range to be set Specify in plain text (max. 5 characters): Y01: ... up to ... mbar, bar, kPa, MPa, psi	Y01	✓	
Stainless steel tag plate (measuring point description) Max. 16 characters, specify in plain text: Y15:	Y15	✓	✓
Measuring point text Max. 27 characters, specify in plain text: Y16:	Y16	✓	✓
Entry of HART address (TAG) Max. 8 characters, specify in plain text: Y17:	Y17	✓	
Setting of pressure indication in pressure units Specify in plain text (standard setting: bar): Y21: mbar, bar, kPa, MPa, psi, ... Note: The following pressure units can be selected: bar, mbar, mm H ₂ O ¹⁾ , inH ₂ O ¹⁾ , ftH ₂ O ¹⁾ , mmHG, inHG, psi, Pa, kPa, MPa, g/cm ² , kg/cm ² , Torr, ATM or %) ref. temperature 20 °C	Y21	✓	✓
Setting of pressure indication in non-pressure units¹⁾ Specify in plain text: Y22: up to l, m ³ , m, USg, ... (specification of measuring range in pressure units "Y01" is essential, unit with max. 5 characters)	Y22 + Y01	✓	
Preset bus address possible between 1 and 126 Max. 8 characters, specify in plain text: Y25:	Y25		✓

Only "Y01" and "Y21" can be factory preset

✓ = available

ordering example

Item line: 7MF4133-1DB20-1AB7-Z

B line: C11 + Y01 + Y21

C line: Y01: 1 ... 10 bar (14.5 ... 145 psi)

C line: Y21: bar (psi)

¹⁾ Preset values can only be changed over SIMATIC PDM.