

Selection and Ordering data		Order No.	
SITRANS P DS III with HART pressure transmitters for differential pressure and flow, PN 32/160 (MAWP 464/2320 psi)		7MF4433-	
Measuring cell filling	Measuring cell cleaning		
Silicone oil	normal	▶	1
Inert liquid ¹⁾	grease-free to cleanliness level 2		3
Measuring span (min. ... max.)			
PN 32 (MAWP 464 psi)			
1 ... 20 mbar ²⁾	(0.4015 ... 8.03 inH ₂ O)	▶	B
PN 160 (MAWP 2320 psi)			
1 ... 60 mbar	(0.4015 ... 24.09 inH ₂ O)	▶	C
2.5 ... 250 mbar	(1.004 ... 100.4 inH ₂ O)	▶	D
6 ... 600 mbar	(2.409 ... 240.9 inH ₂ O)	▶	E
16 ... 1600 mbar	(6.424 ... 642.4 inH ₂ O)	▶	F
50 ... 5000 mbar	(20.08 ... 2008 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 ³⁾	Tantalum		E
Monel ³⁾	Monel		H
Gold ³⁾	Gold		L
Version for diaphragm seal ⁴⁾ 5) 6) 7)			Y
Process connection			
Female thread ¼-18 NPT with flange connection			
• Sealing screw opposite process connection			
- Mounting thread 7/16"-20 UNF to IEC 61518	▶	2	
- Mounting thread M10 to DIN 19213 (only for replacement requirement)		0	
• Vent on side of process flange ²⁾			
- Mounting thread 7/16"-20 UNF to IEC 61518		6	
- Mounting thread M10 to DIN 19213 (only for replacement requirement)		4	
Non-wetted parts materials			
process flange screws	Electronics housing		
Stainless steel	Die-cast aluminum	▶	2
Stainless steel	Stainless steel precision casting ⁸⁾		3
Version			
• Standard versions			1
• International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable)	▶	2	
Explosion protection			
• None			A
• With ATEX, Type of protection:			
- "Intrinsic safety (Ex ia)"			B
- "Explosion-proof (Ex d)" ⁹⁾			D
- "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)" ¹⁰⁾			P
- "Ex nA/ic (Zone 2)" ¹¹⁾			E
- "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)" ¹⁰⁾	▶		R
• FM + CSA (is + ep) + Ex ia + Ex d (ATEX)			S
• With FM + CSA, Type of protection:			
- "Intrinsic Safe und Explosion Proof (is + xp)" ⁹⁾			NC

Selection and Ordering data		Order No.	
SITRANS P DS III with HART pressure transmitters for differential pressure and flow, PN 32/160 (MAWP 464/2320 psi)		7MF4433-	
Electrical connection/cable entry			
• Screwed gland Pg 13.5 ¹²⁾			A
• Screwed gland M20 x 1.5		▶	B
• Screwed gland ½-14 NPT			C
• Han 7D plug (plastic housing) incl. mating connector ¹²⁾¹³⁾			D
• M12 connectors (stainless steel) ^{12) 14)}			F
Display			
• Without display			0
• Without visible display (display concealed, setting: mA)		▶	1
• With visible display			6
• with customer-specific display (setting as specified, Order Code "Y21" or "Y22" required)			7
▶ Available ex stock			
Power supply units see Chap. 7 "Supplementary Components".			
Included in delivery of the device:			
• Brief instructions (Leporello)			
• CD-ROM with detailed documentation			
• Sealing plug(s) or sealing screw(s) for the process flanges(s)			
1) For oxygen application, add Order code E10.			
2) Not suitable for connection of remote seal. Position of the top vent valve in the process flange (see dimensional drawing).			
3) Not in conjunction with max. span 20 and 60 mbar (8.03 und 24.09 inH ₂ O))			
4) When the manufacture's certificate (calibration certificate) has to be ordered for transmitters with diaphragm seals according to IEC 60770-2, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the <u>total</u> combination is certified here.			
5) If the acceptance test certificate 3.1.is ordered for the transmitter with mounted diaphragm seals this certificate must also be ordered with the respective remote seals.			
6) The diaphragm seal is to be specified with a separate order number and must be included wiht the transmitter order number, for example 7MF443.-.Y.-..... und 7MF4900-1...-B			
7) The standard measuring cell filling for configurations with remote seals (Y) is silicone oil.			
8) Not in conjunction with Electrical connection "Screwed gland Pg 13.5" and "Han7D plug".			
9) Without cable gland, with blanking plug			
10)With enclosed cable gland Ex ia and blanking plug			
11)Configurations with HAN and M12 connectors are only available in Ex ic.			
12)Not in conjunction with types of protection "Explosion-proof" and "Ex nA", "Intrinsic safety" and "Explosion-proof".			
13)Permissible only for crimp-contact of conductor cross-section 1 mm ²			
14)M12 delivered without cable socket. Not available with protection type "Explosion-proof".			

Selection and Ordering data		Order No.
Pressure transmitters for differential pressure and flow PN 32/160 (MAWP 464/2320 psi)		
SITRANS P DS III with PROFIBUS PA (PA)		7 MF 4 4 3 4 -
SITRANS P DS III with FOUNDATION Fieldbus (FF)		7 MF 4 4 3 5 -
		■ ■ ■ ■ ■ - ■ ■ ■ ■ ■
Measuring cell filling	Measuring cell cleaning	
Silicone oil	normal	1
Inert liquid ¹⁾	grease-free to cleanliness level 2	3
Nominal measuring range		
PN 32 (MAWP 464 psi)		
20 mbar ²⁾	(8.03 inH ₂ O)	B
PN 160 (MAWP 2320 psi)		
60 mbar	(24.09 inH ₂ O)	C
250 mbar	(100.4 inH ₂ O)	D
600 mbar	(240.9 inH ₂ O)	E
1600 mbar	(642.4 inH ₂ O)	F
5 bar	(2008 inH ₂ O)	G
30 bar	(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 ³⁾	Tantalum	E
Monel ³⁾	Monel	H
Gold ³⁾	Gold	L
Version as diaphragm seal ⁴⁾ ⁵⁾ ⁶⁾ ⁷⁾		Y
Process connection		
Female thread 7/4-18 NPT with flange connection		
- Sealing screw opposite process connection - Mounting thread 7/16-20 UNF to IEC 61518 ▶ - Mounting thread M10 to DIN 19213 (only for replacement requirement)		20
- Venting on side of process flanges²⁾ - Mounting thread 7/16-20 UNF to IEC 61518 - Mounting thread M10 to DIN 19213 (only for replacement requirement)		64
Non-wetted parts materials		
process flange screws	Electronics housing	
Stainless steel	Die-cast aluminum	2
Stainless steel	Stainless steel precision casting	3
Version		
- Standard versions - International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) ▶		12
Explosion protection		
- None - With ATEX, Type of protection: "Intrinsic safety (Ex ia)" "Explosion-proof (Ex d)"⁸⁾ "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)"⁹⁾ "Ex nA/ic (Zone 2)" ¹⁰⁾ "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia + Ex d + Zone 1D/2D)"⁹⁾ (not for DS III FF) - FM + CSA (is + ep) + Ex ia + Ex d (ATEX) - With FM + CSA, Type of protection: "Intrinsic Safe und Explosion Proof (is + xp)"⁸⁾		A B D P E R S NC

Selection and Ordering data		Order No.
Pressure transmitters for differential pressure and flow PN 32/160 (MAWP 464/2320 psi)		
SITRANS P DS III with PROFIBUS PA (PA)		7 MF 4 4 3 4 -
SITRANS P DS III with FOUNDATION Fieldbus (FF)		7 MF 4 4 3 5 -
Electrical connection/cable entry		
• Screwed gland M20 x 1.5 • Screwed gland ½-14 NPT • M12 connectors (stainless steel)¹¹⁾ ¹²⁾ ¹³⁾		B C F
Display		
• Without display • Without visible display (display concealed, setting: mA) • With visible display • With customer-specific display (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 plug(s) or sealing screw(s) for the process flanges(s)		
¹⁾ For oxygen application, add Order code E10. ²⁾ Not suitable for connection of remote seal. Position of the top vent valve in the process flange (see dimensional drawing). ³⁾ Not in conjunction with max. span 20 and 60 mbar (8.03 and 24.09 inH ₂ O)) ⁴⁾ When the manufacture's certificate (calibration certificate) has to be ordered for transmitters with diaphragm seals according to IEC 60770-2, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the <u>total</u> combination is certified here. ⁵⁾ If the acceptance test certificate 3.1.is ordered for the transmitter with mounted diaphragm seals this certificate must also be ordered with the respective remote seals. ⁶⁾ The diaphragm seal is to be specified with a separate order number and must be included with the transmitter order number, for example 7MF443-...Y...-... und 7MF4900-1...-B ⁷⁾ The standard measuring cell filling for configurations with remote seals (Y) is silicone oil. ⁸⁾ Without cable gland, with blanking plug. ⁹⁾ With enclosed cable gland Ex ia and blanking plug. ¹⁰⁾ Configurations with HAN and M12 connectors are only available in Ex ic. ¹¹⁾ M12 delivered without cable socket ¹²⁾ Not available with protection type „Ex d“ (options D, P, N and R) ¹³⁾ Not in conjunction with types of protection "Explosion-proof" and "Ex nA", "Intrinsic safety" and "Explosion-proof".		

Selection and Ordering data		Order code		
Further designs Add "-Z" to Order No. and specify Order Code.			HART	PA FF
Pressure transmitter with mounting bracket (2 shackles, 4 nuts, 4 U-plates, 1 angle) made of: • Steel • Stainless steel		A01 A02	✓ ✓	✓ ✓
O-rings for process flanges (instead of FPM (Viton)) • PTFE (Teflon) • FEP (with silicone core, approved for food) • FFFM (Kalrez, compound 4079) • NBR (Buna N)		A20 A21 A22 A23	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
plug • Han 7D (metal, gray) • Han 8U (instead of Han 7D) • Angled • Han 8D (metal, gray)		A30 A31 A32 A33	✓ ✓ ✓ ✓	
Sealing screws (2 unit(s)) ¼-18 NPT, with valve in mat. of process flanges		A40	✓	✓
Cable sockets for M12 connectors (stainless steel)		A50	✓	✓
Rating plate inscription (instead of German) • English • French • Spanish • Italian		B11 B12 B13 B14	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
English rating plate Pressure units in inH ₂ O and/or psi		B21	✓	✓
Quality inspection certificate (Five-step factory calibration) to IEC 60770-2¹⁾		C11	✓	✓
Inspection certificate²⁾ to EN 10204-3.1		C12	✓	✓
Factory certificate to EN 10204-2.2		C14	✓	✓
"Functional safety (SIL2)" certificate to IEC 61508		C20	✓	
"Functional safety" certificate (PROFIsafe) and PROFIsafe protocol		C21		✓
"Functional safety (SIL2/3)" certificate to IEC 61508		C23	✓	
Device passport Russia (For price request please contact the technical support www.siemens.com/automation/support-request)		C99	✓	✓
Setting of upper limit of output signal to 22.0 mA		D05	✓	
Manufacturer's declaration acc. to NACE (only together with seal diaphragm made of Hastelloy and stainless steel)		D07	✓	✓
Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT)		D12	✓	✓
Process flange screws made of Monel (max. nominal pressure PN20)		D34	✓	✓
Supplied with oval flange set (2 items), PTFE packings and screws in thread of process flanges		D37	✓	✓
Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4...-.....-B.. Ex ia"))		E01	✓	✓
TÜV approval to AD/TRD (only together with type of protection "Intrinsic safety (Ex ia)")		E06	✓	

Selection and Ordering data		Order code		
Further designs Add "-Z" to Order No. and specify Order Code.			HART	PA FF
Overfilling safety device for flammable and non-flammable liquids (max. PN 32 (MAWP 464 psi), basic device with type of protection "Intrinsic safety (Ex ia)", to WHG and VbF, not together with measuring cell filling "inert liquid")		E08	✓	
Oxygen application (In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F))		E10	✓	✓
Export approval Korea		E11	✓	✓
Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4...-.....-B..)		E25	✓	✓
"Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4...-.....-D..)		E26	✓	✓
Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4...-.....-P..)		E28	✓	✓
Ex Approval IEC Ex (Ex ia) (only for transmitter 7MF4...-.....-B..)		E45	✓	✓
Ex Approval IEC Ex (Ex id) (only for transmitter 7MF4...-.....-D..)		E46	✓	✓
Explosion-proof "Intrinsic safety" to NEPSI (China) (only for transmitter 7MF4...-.....-B..)		E55	✓	✓
Explosion protection "Explosion-proof" to NEPSI (China) (only for transmitter 7MF4...-.....-D..)		E56	✓	✓
Explosion-proof "Zone 2" to NEPSI (China) (only for transmitter 7MF4...-.....-E..)		E57	✓	✓
"Intrinsic safety" and "Explosion-proof" explosion protection acc. to Kosha (Korea) (only for transmitter 7MF4...-.....-[B, D]..-Z + E11)		E70	✓	✓
Two coats of lacquer on casing and cover (PU on epoxy)		G10	✓	✓
Interchanging of process connection side		H01	✓	✓
Vent on side for gas measurements		H02	✓	✓
Stainless steel process flanges for vertical differential pressure lines (not together with K01, K02 and K04) ³⁾		H03	✓	✓
Process flange • Hastelloy • Monel • Stainless steel with PVDF insert max. PN 10 (MAWP 145 psi), max. temperature of medium 90 °C (194 °F) For ½-14 NPT inner process connection on the side in the middle of the process flange, vent valve not possible		K01 K02 K04	✓ ✓ ✓	✓ ✓ ✓
Factory mounting of valve manifolds, see accessories.				
Supplementary electronics for 4-wire connection, see accessories.				
✓ = available				
¹⁾ When the manufacture's certificate (calibration certificate) has to be ordered for transmitters with diaphragm seals according to IEC 60770-2, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the <u>total</u> combination is certified here.				
²⁾ If the acceptance test certificate 3.1.is ordered for the transmitter with mounted diaphragm seals this certificate must also be ordered with the respective remote seals.				
³⁾ Not suitable for connection of remote seal				

Selection and Ordering data		Order code		
Additional data Please add " -Z " to Order No. and specify Order code(s) and plain text.			HART	PA
				FF
Measuring range to be set Specify in plain text: • in the case of linear characteristic curve (max. 5 characters): Y01: ... up to ... mbar, bar, kPa, MPa, psi • in the case of square rooted characteristic (max. 5 characters): Y02: ... up to ... mbar, bar, kPa, MPa, psi		Y01	✓	
		Y02	✓	
Stainless steel tag plate (measuring point description) Max. 16 char., specify in plain text: Y15:		Y15	✓	✓
Measuring point text Max. 27 char., specify in plain text: Y16:		Y16	✓	✓
Entry of HART address (TAG) Max. 8 char., specify in plain text: Y17:		Y17	✓	
Setting of pressure indicator 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 ^{*)} , inH ₂ O ^{*)} , ftH ₂ O ^{*)} , mmHG, inHG, psi, Pa, kPa, MPa, g/cm ² , kg/cm ² , Torr, ATM or % *) ref. temperature 20 °C		Y21	✓	✓
Setting of pressure indicator in non-pressure units¹⁾ Specify in plain text: Y22: up to l/min, m ³ /h, m, USgpm, ... (specification of measuring range in pressure units "Y01" or "Y02" is essential, unit with max. 5 characters)		Y22²⁾	✓	
		+ Y01 or Y02		
Preset bus address possible between 1 and 126 Specify in plain text: Y25:		Y25		✓

Factory mounting of valve manifolds, see accessories.

Only Y01, Y15, Y16, Y17, Y21, Y22, Y25 und D05 can be factory preset

✓ = available

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

2) Not in conjunction with over-filling safety device for flammable and non-flammable liquids (Order Code "E08")

Selection and Ordering data		Order No.	
SITRANS P DS III with HART pressure transmitters for differential pressure and flow, PN 420 (MAWP 6092 psi)		7MF4533 -	
Measuring cell filling	Measuring cell cleaning		
Silicone oil	normal	1	
Measuring span (min. ... max.)			
2.5 ... 250 mbar	(1.004 ... 100.4 inH ₂ O)	D	
6 ... 600 mbar	(2.409 ... 240.9 inH ₂ O)	E	
16 ... 1600 mbar	(6.424 ... 642.4 inH ₂ O)	F	
50 ... 5000 mbar	(20.08 ... 2008 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	
Gold ¹⁾	Gold	L	
Ausführung als Membrandruckmittler ^{2) 3) 4) 5)}		Y	
Process connection			
Female thread 1/4-18 NPT with flange connection			
• Sealing screw opposite process connection			
- Mounting thread 7/16-20 UNF to IEC 61518		3	
- Mounting thread M12 to DIN 19213 (only for replacement requirement)		1	
• Venting on side of process flanges, location of vent valve at top of process flanges (see dimensional drawing)			
- Mounting thread 7/16-20 UNF to IEC 61518		7	
- Mounting thread M12 to DIN 19213 (only for replacement requirement)		5	
Non-wetted parts materials			
process flange screws	Electronics housing		
Stainless steel	Die-cast aluminum	2	
Stainless steel	Stainless steel precision casting ⁶⁾	3	
Version			
• Standard versions		1	
• International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable)		2	
Explosion protection			
• None		A	
• With ATEX, Type of protection:			
- "Intrinsic safety (Ex ia)"		B	
- "Explosion-proof (Ex d) ⁷⁾		D	
- "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d) ⁸⁾		P	
- "Ex nA/ic (Zone 2) ⁹⁾		E	
- "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D) ⁸⁾		R	
• FM + CSA (is + ep) + Ex ia + Ex d (ATEX)		S	
• With FM + CSA, Type of protection:			
- "Intrinsic safety and explosion-proof (is + xp) ⁷⁾ , max PN 360		NC	
Electrical connection/cable entry			
• Screwed gland Pg 13.5 ¹⁰⁾		A	
• Screwed gland M20x1.5		B	
• Screwed gland 1/2-14 NPT		C	
• Han 7D plug (plastic housing) incl. mating connector ^{10) 11)}		D	
• M12 connectors (stainless steel) ^{12) 13) 14)}		F	

Selection and Ordering data		Order No.	
SITRANS P DS III with HART pressure transmitters for differential pressure and flow, PN 420 (MAWP 6092 psi)		7MF4533 -	
Display			
• Without display			0
• Without visible display (display concealed, setting: mA)			1
• With visible display			6
• with customer-specific display (setting as specified, Order Code "Y21" or "Y22" required)			7
► Available ex stock			
Power supply units see Chap. 7 "Supplementary Components".			
Scope of delivery: Pressure transmitter as ordered (Instruction Manual is extra ordering item)			
- Not in conjunction with max. span 600 mbar (240.9 inH₂O) - When the manufacture's certificate (calibration certificate) has to be ordered for transmitters with diaphragm seals according to IEC 60770-2, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the <u>total</u> combination is certified here. - If the acceptance test certificate 3.1.is ordered for the transmitter with mounted diaphragm seals this certificate must also be ordered with the respective remote seals. - The diaphragm seal is to be specified with a separate order number and must be included wiht the tranmitter order number, for example 7MF453-..Y-.... und 7MF4900-1.....B - The standard measuring cell filling for configurations with remote seals (Y) is silicone oil. - Not in conjunction with Electrical connection "Screwed gland Pg 13.5" and "Han7D plug". - Without cable gland, with blanking plug - With enclosed cable gland Ex ia and blanking plug - Configurations with HAN and M12 connectors are only available in Ex ic. - Not in conjunction with types of protection "Explosion-proof" and "Ex nA", "Intrinsic safety" and "Explosion-proof". - Permissible only for crimp-contact of conductor cross-section 1 mm² - M12 delivered without cable socket - Not available with protection type „Ex d" (options D, P, N and R) - Not in conjunction with types of protection "Explosion-proof" and "Ex nA", "Intrinsic safety" and "Explosion-proof".			

Selection and Ordering data		Order No.	
Pressure transmitters for differential pressure and flow, PN 420 (MAWP 6092 psi)			
SITRANS P DS III with PROFIBUS PA (PA)		7 MF 4 5 3 4 -	
SITRANS P DS III with FOUNDATION Fieldbus (FF)		7 MF 4 5 3 5 -	
		1 	
Nominal measuring range			
250 mbar	(100.4 inH ₂ O)	D	
600 mbar	(240.9 inH ₂ O)	E	
1600 mbar	(642.4 inH ₂ O)	F	
5 bar	(2008 inH ₂ O)	G	
30 bar	(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	
Gold ¹⁾	Gold	L	
Ausführung als Membrandruckmittler ²⁾ ³⁾ ⁴⁾ ⁵⁾		Y	
Process connection			
Female thread 1/4-18 NPT with flange connection			
- Sealing screw opposite process connection - Mounting thread 7/16-20 UNF to IEC 61518  - Mounting thread M12 to DIN 19213 (only for replacement requirement) - Venting on side of process flanges, location of vent valve at top of process flanges (see dimensional drawing). - Mounting thread 7/16-20 UNF to IEC 61518 - Mounting thread M12 to DIN 19213 (only for replacement requirement)		3	1
		7	5
Non-wetted parts materials			
Process flange screws	Electronics housing		
Stainless steel	Die-cast aluminum	2	
Stainless steel	Stainless steel precision casting	3	
Version			
- Standard versions - International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) 		1	2
Explosion protection			
- None - With ATEX, Type of protection: "Intrinsic safety (Ex ia)" "Explosion-proof (Ex d)"⁶⁾ "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)"⁷⁾ "Ex nA/ic (Zone 2)"⁸⁾ "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia + Ex d + Zone 1D/2D)"⁷⁾ (not for DS III FF) - FM + CSA (is + ep) + Ex ia + Ex d (ATEX) - With FM + CSA, Type of protection: "Intrinsic safety and explosion-proof (is + xp)"⁶⁾, max PN 360		A	B
		D	P
		E	R
		S	
		NC	
Electrical connection/cable entry			
- Screwed gland M20 x 1.5 - Screwed gland 1/2-14 NPT - M12 connectors (stainless steel) ⁹⁾ ¹⁰⁾ ¹¹⁾		B	C
		F	

Selection and Ordering data		Order No.	
Pressure transmitters for differential pressure and flow, PN 420 (MAWP 6092 psi)			
SITRANS P DS III with PROFIBUS PA (PA)		7 MF 4 5 3 4 -	
SITRANS P DS III with FOUNDATION Fieldbus (FF)		7 MF 4 5 3 5 -	
		1 	
Display			
- Without (display hidden) - Without visible display (display concealed, setting: mA) - With visible display - With customer-specific display (setting as specified, Order Code "Y21" required)  Available ex stock		0	1
		6	7
Included in delivery of the device:			
- Brief instructions (Leporello) - CD-ROM with detailed documentation - Sealing plug(s) or sealing screw(s) for the process flanges(s)			
¹⁾ Not in conjunction with max. span 600 mbar (240.9 inH ₂ O)			
²⁾ When the manufacture's certificate (calibration certificate) has to be ordered for transmitters with diaphragm seals according to IEC 60770-2, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the <u>total</u> combination is certified here.			
³⁾ If the acceptance test certificate 3.1.is ordered for the transmitter with mounted diaphragm seals this certificate must also be ordered with the respective remote seals.			
⁴⁾ The diaphragm seal is to be specified with a separate order number and must be included with the transmitter order number, for example 7MF453-..Y..-.... und 7MF4900-1....-B			
⁵⁾ The standard measuring cell filling for configurations with remote seals (Y) is silicone oil.			
⁶⁾ Without cable gland, with blanking plug.			
⁷⁾ With enclosed cable gland Ex ia and blanking plug.			
⁸⁾ Configurations with HAN and M12 connectors are only available in Ex ic.			
⁹⁾ M12 delivered without cable socket			
¹⁰⁾ Not available with protection type „Ex d“ (options D, P, N and R)			
¹¹⁾ Not in conjunction with types of protection "Explosion-proof" and "Ex nA", "Intrinsic safety" and "Explosion-proof".			

Selection and Ordering data		Order code		
<i>Further designs</i>			HART	PA
Add "-Z" to Order No. and specify Order Code.				FF
Pressure transmitter with mounting bracket (2 shackles, 4 nuts, 4 U-plates, 1 angle) made of:				
• Steel	A01	✓	✓	✓
• Stainless steel	A02	✓	✓	✓
O-rings for process flanges (instead of FPM (Viton))				
• PTFE (Teflon)	A20	✓	✓	✓
• FEP (with silicone core, approved for food)	A21	✓	✓	✓
• FFPM (Kalrez, compound 4079)	A22	✓	✓	✓
• NBR (Buna N)	A23	✓	✓	✓
Plug				
• Han 7D (metal, gray)	A30	✓		
• Han 8U (instead of Han 7D)	A31	✓		
• Angled	A32	✓		
• Han 8D (metal, gray)	A33	✓		
Sealing screws (2 unit(s))	A40	✓	✓	✓
¼-18 NPT, with valve in mat. of process flanges				
Cable sockets for M12 conn. (stainless steel)	A50	✓	✓	✓
Rating plate inscription (instead of German)				
• English	B11	✓	✓	✓
• French	B12	✓	✓	✓
• Spanish	B13	✓	✓	✓
• Italian	B14	✓	✓	✓
English rating plate	B21	✓	✓	✓
Pressure units in inH ₂ O and/or psi				
Quality inspection certificate (Five-step factory calibration) to IEC 60770-2		C11	✓	✓
Inspection certificate	C12	✓	✓	✓
Acc. to EN 10204-3.1				
Factory certificate	C14	✓	✓	✓
Acc. to EN 10204-2.2				
"Functional safety (SIL2)" certificate to IEC 61508	C20	✓		
"Functional safety" certificate (PROFIsafe) and PROFIsafe protocol	C21		✓	
"Functional safety (SIL2/3)" certificate to IEC 61508	C23	✓		
Device passport Russia (For price request please contact the technical support www.siemens.com/automation/support-request)	C99	✓	✓	✓
Setting of upper limit of output signal to 22.0 mA	D05	✓		
Manufacturer's declaration acc. to NACE (only together with seal diaphragm made of Hastelloy and stainless steel)	D07	✓	✓	✓
Degree of protection IP65/IP68 (only for M20 x 1.5 and ½-14 NPT)	D12	✓	✓	✓
Nom. press. rating PN 500 (MAWP 7250 psi) (Only for measuring cell 600 mbar ... 30 bar (240 inH ₂ O ... 435 psi), SIL- und Ex-options not possible)) ¹⁾	D56	✓		
Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4...-.....-B... Ex ia)“)	E01	✓	✓	✓
Export approval Korea	E11	✓	✓	✓
Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil) (only for transmitter 7MF4...-.....-B..)	E25	✓	✓	✓
"Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4...-.....-D..)	E26	✓	✓	✓

Selection and Ordering data		Order code		
<i>Further designs</i>			HART	PA
Add "-Z" to Order No. and specify Order Code.				FF
Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4...-.....-P..)		E28	✓	✓
Ex Approval IEC Ex (Ex ia) (only for transmitter 7MF4...-.....-B..)	E45	✓	✓	✓
Ex Approval IEC Ex (Ex id) (only for transmitter 7MF4...-.....-D..)	E46	✓	✓	✓
Explosion-proof "Intrinsic safety" to NEPSI (China) (only for transmitter 7MF4...-.....-B..)	E55	✓	✓	✓
Ex prot. "Explosion-proof" to NEPSI (China) (only for transmitter 7MF4...-.....-D..)	E56	✓	✓	✓
Explosion-proof "Zone 2" to NEPSI (China) (only for transmitter 7MF4...-.....-E..)	E57	✓	✓	✓
"Intrinsic safety" and "Explosion-proof" explosion protection acc. to Kosha (Korea) (only for transmitter 7MF4...-.....-[B, D]..-Z + E11)	E70	✓	✓	✓
Two coats of lacquer on casing and cover (PU on epoxy)	G10	✓	✓	✓
Interchanging of process connection side	H01	✓	✓	✓
Stainless steel process flanges for vertical differential pressure lines	H03	✓	✓	✓

¹⁾ Tested according to IEC 61010. Only for measuring materials of the group of fluids 2 in accordance with DGRL permissible. Not for use with dangerous media suitable.

Selection and Ordering data	Order code			
Additional data				
Please add "-Z" to Order No. and specify Order code(s) and plain text.				
Measuring range to be set				
Specify in plain text:				
• in the case of linear characteristic curve (max. 5 characters): Y01: ... up to ... mbar, bar, kPa, MPa, psi	Y01	✓		
• in the case of square rooted characteristic (max. 5 characters): Y02: ... up to ... mbar, bar, kPa, MPa, psi	Y02	✓		
Stainless steel tag plate (measuring point description)	Y15	✓	✓	✓
Max. 16 char., specify in plain text: Y15:				
Measuring point text	Y16	✓	✓	✓
Max. 27 char., specify in plain text: Y16:				
Entry of HART address (TAG)	Y17	✓		
Max. 8 char., specify in plain text: Y17:				
Setting of pressure indication in pressure units	Y21	✓	✓	✓
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				
Setting of pressure indication in non-pressure units ¹⁾	Y22 + Y01 or Y02	✓		
Specify in plain text: Y22: up to l/min, m ³ /h, m, USgpm, ... (specification of measuring range in pressure units "Y01" or "Y02" is essential, unit with max. 5 characters)				
Preset bus address	Y25		✓	✓
possible between 1 and 126				
Specify in plain text: Y25:				

Factory mounting of valve manifolds, see accessories.

Only Y01, Y15, Y16, Y17, Y21, Y22, Y25 and D05 can be factory preset.

✓ = available

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