

Selection and Ordering data		Order No.	
Pressure transmitters for absolute pressure from differential pressure series, SITRANS P DS III with HART		7MF4333 -	
Measuring cell filling	Measuring cell cleaning		
Silicone oil	normal	1	
Inert liquid ¹⁾	grease-free to cleanliness level 2	3	
Measuring span (min. ... max.)			
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	
5.3 ... 100 bar a	(76.9 ... 1450 psia)	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	H	
Gold	Gold	L	
Version for diaphragm seal ^{2) 3) 4) 5) 6)}		Y	
Process connection			
Female thread 1/4-18 NPT with flange connection			
- Sealing screw opposite process connection - Mounting thread 7/16-20 UNF to EN 61518 - Mounting thread M10 to DIN 19213 (only for replacement requirement) - Vent on side of process flange ⁷⁾ - Mounting thread 7/16-20 UNF to EN 61518 - Mounting thread M10 to DIN 19213 (only for replacement requirement)		2064	
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 - 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)"⁹⁾ "Intrinsic safety and flameproof enclosure (Ex ia + Ex d)"¹⁰⁾ "Ex nA/ic (Zone 2)"¹¹⁾ "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)"¹⁰⁾ - FM + CSA (is + ep) + Ex ia + Ex d (ATEX) - With FM + CSA, Type of protection: "Intrinsic Safe und Explosion Proof (is + xp)"⁹⁾		A B D P E R S NC	
Electrical connection/cable entry			
- Screwed gland Pg 13.5¹²⁾ - Screwed gland M20 x 1.5 - Screwed gland 1/2-14 NPT - Han 7D plug (plastic housing) incl. mating connector¹²⁾ - M12 connectors (stainless steel)^{12) 13)}		A B C D F	

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Display			
- Without display - Without visible display (display concealed, setting: mA) - With visible display - with customer-specific display (setting as specified, Order Code "Y21" or "Y22" required)			0167
► 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)			
- For oxygen applications, add Order code E10. - Version 7MF4333-1DY... only up to max. span 200 mbar a (2.9 psia). - 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 7MF433-.-Y.-.-... und 7MF4900-1-.-.-B - The standard measuring cell filling for configurations with remote seals (Y) is silicone oil. - Not for span "5.3 ... 100 bar a (76.9 ... 1450 psia)". Position of the top vent valve in the process flange (see dimensional drawing). - 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". - M12 delivered without cable socket			

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Pressure transmitter for absolute pressure from differential pressure series			
SITRANS P DS III with PROFIBUS PA (PA)		7MF4334-	
SITRANS P DS III with FOUNDATION Fieldbus (FF)		7MF4335-	
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Measuring cell filling	Measuring cell cleaning		
Silicone oil	normal	1	
Inert liquid ¹⁾	grease-free to cleanliness level 2	3	
Nominal measuring range			
250 mbar a	(3.62 psia)	D	
1300 mbar a	(18.85 psia)	F	
5 bar a	(72.5 psia)	G	
30 bar a	(435 psia)	H	
100 bar a	(1450 psia)	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	H	
Gold	Gold	L	
Version as diaphragm seal ^{2) 3) 4) 5) 6)}		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 M10 to DIN 19213 (only for replacement requirement)		2	
- Vent on side of process flange⁷⁾ - Mounting thread 7/16-20 UNF to IEC 61518 - Mounting thread M10 to DIN 19213 (only for replacement requirement)		0	
		6	
		4	
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		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)" "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⁾		B	
		D	
		P	
		E	
		R	
		S	
		NC	
Electrical connection/cable entry			
Screwed gland M20 x 1.5		B	
Screwed gland 1/2-14 NPT		C	
M12 connectors (stainless steel)^{11) 12) 13)}		F	

Selection and Ordering data		Order No.	
Pressure transmitter for absolute pressure from differential pressure series			
SITRANS P DS III with PROFIBUS PA (PA)		7MF4334-	
SITRANS P DS III with FOUNDATION Fieldbus (FF)		7MF4335-	
		■ ■ ■ ■ ■ - ■ ■ ■ ■ ■	
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" required)		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) For oxygen application, add Order code E10.			
2) Version 7MF4334-1DY... only up to max. span 200 mbar a (80 inH ₂ O a).			
3) 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.			
4) 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.			
5) The diaphragm seal is to be specified with a separate order number and must be included wht the tranmitter order number, for example 7MF433-.-Y.-.-... und 7MF4900-1...-B			
6) The standard measuring cell filling for configurations with remote seals (Y) is silicone oil.			
7) Not for nominal measuring range 100 bar a (1450 psia). Position of the top vent valve in the process flange (see dimensional drawing).			
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	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 screw 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	B11	✓	✓	✓	
• French	B12	✓	✓	✓	
• Spanish	B13	✓	✓	✓	
• Italian	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⁾ Acc. to EN 10204-3.1	C12	✓	✓	✓	
Factory certificate Acc. 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	✓	✓	✓	
Supplied with oval flange (1 item), PTFE packing and screws in thread of process flange	D37	✓	✓	✓	
Use in or on zone 1D/2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4...-.....-B.. Ex ia"))	E01	✓	✓	✓	
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	✓	✓	✓	

Selection and Ordering data		Order code			
Further designs Add "-Z" to Order No. and specify Order Code.			HART	PA	FF
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	✓	✓	✓
Process flange					
• Hastelloy	K01	✓	✓	✓	
• Monel	K02	✓	✓	✓	
• 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	K04	✓	✓	✓	

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 total 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.

Selection and Ordering data	Order code			
Additional data		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 ^{*)} , 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 indication 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" is essential, unit with max. 5 characters)	Y22 + Y01	✓		
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 and D05 can be factory preset

✓ = available

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