

Selection and Ordering data		Order No.	
Pressure transmitter for level, SITRANS P DS III with HART		7MF4633 -	
Measuring cell filling	Measuring cell cleaning	1	Y
Silicone oil	normal		
Measuring span (min. ... max.)		D	
25 ... 250 mbar	(10 ... 100 inH ₂ O)	E	
25 ... 600 mbar	(10 ... 240 inH ₂ O)	F	
53 ... 1600 mbar	(21 ... 642 inH ₂ O)	G	
0.16 ... 5 bar	(64.3 ... 2000 inH ₂ O)		
Process connection of low-pressure side		2	
Female thread ¼-18 NPT with flange connection		0	
• Mounting thread 7/16-20 UNF to IEC 61518			
• Mounting thread M10 to DIN 19213 (only for replacement requirement)			
Non-wetted parts materials		2	
process flange screws	Electronics housing	3	
Stainless steel	Die-cast aluminum		
Stainless steel	Stainless steel precision casting ¹⁾		
Version		1	
• Standard versions		2	
• International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable)			
Explosion protection		A	
• None		B	
• With ATEX, Type of protection:		D	
- "Intrinsic safety (Ex ia)"		P	
- "Explosion-proof (Ex d)" ²⁾		E	
- "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d) ³⁾		R	
- "Ex nA/ic (Zone 2)" ⁴⁾		S	
- "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)" ³⁾		NC	
• FM + CSA (is + ep) + Ex ia + Ex d (ATEX)		A	
• With FM + CSA, Type of protection:		B	
- "Intrinsic Safe und Explosion Proof (is + xp)" ^{*1)}		C	
Electrical connection/cable entry		D	
• Screwed gland Pg 13.5 ⁵⁾		F	
• Screwed gland M20x1.5			
• Screwed gland ½-14 NPT			
• Han 7D plug (plastic housing) incl. mating connector ⁵⁾			
• M12 connectors (stainless steel) ^{5) 6) 7)}			
Display		0	
• Without display		1	
• Without visible display (display concealed, setting: mA)			
• With visible display		6	
• With customer-specific display (setting as specified, Order Code "Y21" or "Y22" required)		7	
▶ Available ex stock			
Ordering information			
1st order item: Pressure transmitter 7MF4633-...			
2nd order item: Mounting flange 7MF4912-3...			
ordering example			
Item line 1: 7MF4633-1EY20-1AA1-Z			
B line: Y01			
C line: Y01: 80 to 143 mbar (1.16 to 2.1 psi)			
Item line 2: 7MF4912-3GE01			
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⁾ Not in conjunction with electrical connection "Screwed gland Pg 13.5" and "Han7D plug".
- ²⁾ Without cable gland, with blanking plug.
- ³⁾ With enclosed cable gland Ex ia and blanking plug.
- ⁴⁾ Configurations with HAN and M12 connectors are only available in Ex nL.
- ⁵⁾ Not in conjunction with types of protection "Explosion-proof" and "Ex nA", "Intrinsic safety" and "Explosion-proof".
- ⁶⁾ M12 delivered without cable socket
- ⁷⁾ Not available with protection type „Ex d“ (optiones D, P, N and R)

Selection and Ordering data		Order No.	
Pressure transmitters for level			
SITRANS P DS III with PROFIBUS PA (PA)		7MF4634-	
SITRANS P DS III with FOUNDATION Fieldbus (FF)		7MF4635-	
		1	Y
Nominal measuring range			
250 mbar	(100 inH ₂ O)	D	
600 mbar	(240 inH ₂ O)	E	
1600 mbar	(642 inH ₂ O)	F	
5 bar	(2000 inH ₂ O)	G	
Process connection of low-pressure side			
Female thread 1/4-18 NPT with flange connection			
• Mounting thread 7/16-20 UNF to IEC 61518		2	
• Mounting thread M10 to DIN 19213 (only for replacement requirement)		0	
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)"		B	
- "Explosion-proof (Ex d)" ¹⁾		D	
- "Intrinsic safety and flameproof enclosure (Ex ia + Ex d)" ²⁾		P	
- "Ex nA/ic (Zone 2)" ³⁾		E	
- "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia + Ex d + Zone 1D/2D)" ²⁾ (not for DS III FF)		R	
• FM + CSA (is + ep) + Ex ia + Ex d (ATEX)		S	
• With FM + CSA, Type of protection:			
- "Intrinsic Safe und Explosion Proof (is + xp)" ¹⁾		NC	
Electrical connection/cable entry			
• Screwed gland M20 x 1.5		B	
• Screwed gland 1/2-14 NPT		C	
• M12 connectors (stainless steel) ^{4) 5)}		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" required)		7	

► Available ex stock

Ordering information

1st order item: Pressure transmitter 7MF4634-...
2nd order item: Mounting flange 7MF4912-...

ordering example

Item line 1: 7MF4634-1EY20-1AA1
Item line 2: 7MF4912-3GE01

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) Without cable gland, with blanking plug.
- 2) With enclosed cable gland Ex ia and blanking plug.
- 3) Configurations with HAN and M12 connectors are only available in Ex nL.
- 4) M12 delivered without cable socket
- 5) Not in conjunction with types of protection "Explosion-proof" and "Ex nA", "Intrinsic safety" and "Explosion-proof".

Selection and Ordering data		Order code			Selection and Ordering data		Order code				
Further designs			HART	PA	FF	Further designs			HART	PA	FF
Add "-Z" to Order No. and specify Order Code.						Add "-Z" to Order No. and specify Order Code.					
O-rings for process flanges on low-pressure side (instead of FPM (Viton))						Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil) (only for transmitter 7MF4...-.....-P..)		E28	✓	✓	
• PTFE (Teflon)		A20	✓	✓	✓	Ex Approval IEC Ex (Ex ia) (only for transmitter 7MF4...-.....-B..)		E45	✓	✓	✓
• FEP (with silicone core, approved for food)		A21	✓	✓	✓	Ex Approval IEC Ex (Ex id) (only for transmitter 7MF4...-.....-D..)		E46	✓	✓	✓
• FFFM (Kalrez, compound 4079)		A22	✓	✓	✓	Explosion-proof "Intrinsic safety" to NEPSI (China) (only for transmitter 7MF4...-.....-B..)		E55	✓	✓	✓
• NBR (Buna N)		A23	✓	✓	✓	Explosion protection "Explosion-proof" to NEPSI (China) (only for transmitter 7MF4...-.....-D..)		E56	✓	✓	✓
Plug						Ex protection "Zone 2" to NEPSI (China) (only for transmitter 7MF4...-.....-E..)		E57	✓	✓	✓
• Han 7D (metal, gray)		A30	✓			"Intrinsic safety" and "Explosion-proof" explosion protection acc. to Kosha (Korea) (only for transmitter 7MF4...-.....-[B, D]...-Z + E11)		E70	✓	✓	✓
• Han 8U (instead of Han 7D)		A31	✓			Two coats of lacquer on casing and cover (PU on epoxy)		G10	✓	✓	✓
• Angled		A32	✓			Replacement of process connection side		H01	✓	✓	✓
• 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 60770-2		C11	✓	✓	✓						
Inspection certificate 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	✓								
Degree of protection IP65/IP68 (only for M20x1.5 and ½-14 NPT)		D12	✓	✓	✓						
Supplied with oval flange (1 item), PTFE packing and screws in thread of process flange		D37	✓	✓	✓						
Use on zone 1D / 2D (only together with type of protection "Intrinsic safety" (transmitter 7MF4...-.....-B.. Ex ia)“)		E01	✓	✓	✓						
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	✓								
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			
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 (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 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 ¹⁾ , inH ₂ O ¹⁾ , ftH ₂ O ¹⁾ , mmHG, inHG, psi, Pa, kPa, MPa, g/cm ² , kg/cm ² , Torr, ATM or % ¹⁾ ref. temperature 20 °C	Y21	✓	✓	✓
Setting of pressure indicator in non-pressure units ²⁾ 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)	Y22¹⁾ + Y01	✓		
Preset bus address possible between 1 and 126 Specify in plain text: Y25:	Y25		✓	✓

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

✓ = available

¹⁾ Not in conjunction with over-filling safety device for flammable and non-flammable liquids (Order Code "E08")

²⁾ Preset values can only be changed over SIMATIC PDM.

Selection and Ordering data		Order No.		Selection and Ordering data		Order code	
Mounting flange		7 M F 4 9 1 2		Further designs			HART PA FF
Directly mounted on the SITRANS P pressure transmitter (converter part) for level, for DS III series		3		Add "-Z" to Order No. and specify Order Code.			
Connection to EN 1092-1				Spark arrester		A01	✓
Nominal diameter				For mounting on zone 0 (including documentation)			✓
Nominal pressure				Certificate to EN 10204-2.2		C10	
DN 50	PN 40	A		For certification of oil - and grease-free cleaned and packed version for oxygen and summer applications in which only inert filling liquid may be used. (Only in conjunction with halocarbon oil fill fluid)			
	PN 100	B		Quality inspection certificate (Five-step factory calibration) to IEC 60770-2		C11	✓
DN 80	PN 40	D		Inspection certificate		C12	✓
DN 100	PN 16	G		Acc. to EN 10204-3.1			✓
	PN 40	H		"Functional safety (SIL2)" certificate to IEC 61508		C20	✓
Connection to ASME B16.5				(only for conjunction with the order code "C20" in the case of SITRANS P DS III transmitter)			
Nominal diameter				"Functional safety (SIL2/3)" certificate to IEC 61508		C23	✓
Nominal pressure				(only for conjunction with the order code "C23" in the case of SITRANS P DS III transmitter)			
2 inch	class 150	L		NACE MR-0175-certified		D07	✓
	class 300	M		incl. acceptance test certificate 3.1 to EN 10204			✓
	class 400/600	N		Vacuum-proof design		V04	✓
	class 900/1500	P		(for use in low-pressure range)			✓
3 inch	Class 150	Q		Note:			
	Class 300	R		suffix "Y01" required with pressure transmitter!			
4 inch	Class 150	T		✓ = available			
	Class 300	U					
Other version, add Order Code and plain text: Nominal diameter: ...; Nominal press.: ...		Z					
		J 1 Y					
Wetted parts materials							
• Stainless steel 316L		A					
- Coated with PFA		D					
- Coated with PTFE		E 0					
• Coated with ECTFE ¹⁾		F					
• Monel 400, mat. no. 2.4360		G					
• Hastelloy B2, mat. no. 2.4617		H					
• Hastelloy C276, mat. no. 2.4819		J					
• Hastelloy C4, mat. no. 2.4610		U					
• Tantalum		K					
• Duplex 2205, mat. no. 1.4462		Q					
• Duplex 2205, mat. no. 1.4462, incl. main body		R					
Tube length							
• None		0					
• 50 mm (1.97 inch)		1					
• 100 mm (3.94 inch)		2					
• 150 mm (5.90 inch)		3					
• 200 mm (7.87 inch)		4					
Other version: add Order Code and plain text: material of parts in contact with medium:, tubus length:		Z 8		K 1 Y			
Filling liquid							
• Silicone oil M5		1					
• Silicone oil M50		2					
• High-temperature oil		3					
• Halocarbon oil (for O ₂ -measurement)		4					
• Glycerin/water ²⁾		6					
• Food oil (FDA-listed)		7					
Other version, add Order Code and plain text: filling liquid: ...		9		M 1 Y			

1) For vacuum on request
2) Not suitable for use in low-pressure range