

Selection and Ordering data		Order No.	
SITRANS P pressure transmitters for level series DS III HART		7 MF 4 6 3 3 - ■ ■ Y ■ ■ - ■ ■ ■ ■	
Measuring cell filling	Measuring cell cleaning		
Silicone oil	Standard	1	
Span			
25 ... 250 mbar	(0.363 ... 3.63 psi)	D	
25 ... 600 mbar	(0.363 ... 8.70 psi)	E	
53 ... 1600 mbar	(0.77 ... 23.2 psi)	F	
0.16 ... 5 bar	(2.32 ... 72.5 psi)	G	
Process connection of low-pressure side			
Female thread ¼-18 NPT with flange connection			
• Mounting thread M10 to DIN 19213		0	
• Mounting thread 7/16-20 UNF to EN 61518		2	
Non-wetted parts materials			
Process flange screws	Electronics housing		
Stainless steel	Die-cast aluminium	2	
Stainless steel	Stainless steel precision casting ¹⁾	3	
Version			
• Standard version			1
• International version, English label inscriptions, documentation in 5 languages on CD			2
Explosion protection			
• Without			A
• With ATEX, Type of protection:			
- "Intrinsic safety (EEx ia)"			B
- "Explosion-proof (EEx d)* ²⁾		F)	D
- "Intrinsic safety and explosion-proof enclosure (EEx ia + EEx d)* ³⁾		F)	P
- "Ex nA/nL (zone 2)"			E
- "Intrinsic safety, explosion-proof enclosure and dust explosion protection (EEx ia + EEx d + Zone 1D/2D)* ³⁾		F)	R
• With FM + CSA, Type of protection:			
- "Intrinsic safety and explosion-proof (is + xp)* ²⁾		F)	NC
Electrical connection / cable entry			
• Screwed gland Pg 13.5 ⁴⁾			A
• Screwed gland M20x1.5			B
• Screwed gland ½-14 NPT			C
• Han 7D plug (plastic housing) incl. mating connector ⁴⁾		F)	D
• M12 connectors (metal) ⁵⁾			F
Display			
• without (digital indicator hidden, setting: mA)			1
• With visible digital indication			6
• With customer-specific digital indication (setting as specified, Order code "Y21" or required)			7

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 "SITRANS I power supply units and isolation amplifiers".

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 together with Electrical connection „Screwed gland Pg 13.5“ and „Han7D plug“.
- 2) Without cable gland, with blanking plug.
- 3) With enclosed cable gland EEx ia and blanking plug.
- 4) Not together with type of protection "Explosion-proof" and type of protection "Ex nA".
- 5) Not together with types of protection "Explosion-proof" or "Intrinsic safety and explosion-proof"

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

Selection and Ordering data		Order No.	
SITRANS P pressure transmitter for level			
DS III PA series (PROFIBUS PA)		7 MF 4 6 3 4 -	
DS III FF series (FOUNDATION Fieldbus)		7 MF 4 6 3 5 -	
		1 ■ Y ■ ■ - ■ ■ ■ ■	
Nominal measuring range			
250 mbar	(3.63 psi)	D	
600 mbar	(8.70 psi)	E	
1600 mbar	(23.2 psi)	F	
5 bar	(72.5 psi)	G	
Process connection of low-pressure side			
Female thread 1/4-18 NPT with flange connection			
• Mounting thread M10 to DIN 19213		0	
• Mounting thread 7/16-20 UNF to EN 61518		2	
Non-wetted parts materials			
Process flange screws	Electronics housing		
Stainless steel	Die-cast aluminium	2	
Stainless steel	Stainless steel precision casting	3	
Version			
• Standard version		1	
• International version, English label inscriptions, documentation in 5 languages on CD		2	
Explosion protection			
• Without		A	
• With CENELEC, Type of protection:			
- "Intrinsic safety (EEx ia)"		B	
- "Explosion-proof (EEx d)*1)		D	
- "Intrinsic safety and explosion-proof enclosure (EEx ia + EEx d)*2)		P	
- "Ex nA/nL (zone2)"		E	
- "Intrinsic safety, explosion-proof enclosure and dust explosion protection (EEx ia + EEx d + Zone 1D/2D)*2)		R	
• With FM + CSA, Type of protection:			
- "Intrinsic safety and explosion-proof (is + xp)*2)		NC	
Electrical connection / cable entry			
• Screwed gland M20x1.5		B	
• Screwed gland 1/2-14 NPT		C	
• Plug M12 incl. mating connector ³⁾		F	
Display			
• Without (digital display hidden)		1	
• With visible digital indication		6	
• With customer-specific digital indication (setting as specified, Order code "Y21" or required)		7	

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 EEx ia and blanking plug.

3) Not together with types of protection "Explosion-proof" and "Intrinsic safety and explosion-proof"

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

Selection and Ordering data		Order code			
Further designs			HART	PA	FF
Add "-Z" to Order No. and specify Order code.					
O-rings for process flanges on low-pressure side (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	✓			
Sealing screws ¼-18 NPT, with valve in material of process flanges		A40	✓	✓	✓
Cable sockets for M12 connectors (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 or psi		B21	✓	✓	✓
Manufacturer's test certificate M To DIN 55350, Part 18 and to ISO 8402		C11	✓	✓	✓
Acceptance test certificate To EN 10204-3.1		C12	✓	✓	✓
Factory certificate To EN 10204-2.2		C14	✓	✓	✓
"Functional Safety (SIL)" certificate		C20	✓		
"PROFIsafe" certificate and protocol		C21		✓	
Setting of upper limit of output signal to 22.0 mA		D05	✓		
Type of protection IP68 (not together with PROFIBUS plug M12)		D12	✓	✓	✓
Supplied with oval flange (1 item), PTFE packing and stainless steel screws in thread of process flange		D37 ^{F)}	✓	✓	✓
Use on zone 1D / 2D (only together with type of protection "Intrinsic safety (EEx ia)")		E01	✓	✓	✓
Use on zone 0 (only together with type of protection "Intrinsic safety (EEx ia)")		E02	✓	✓	✓
Overfilling safety device for flammable and non-flammable liquids (max. PN 32 (MWVP 464 psi), basic device with type of protection "Intrinsic safety (EEx ia)")		E08	✓	✓	
Explosion-proof "Intrinsic safety" to INMETRO (Brazil) (only for transmitter 7MF4...-.....-B..)		E25	✓	✓	✓
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	✓	✓	✓
Interchanging of process connection side		H01	✓	✓	✓

Selection and Ordering data	Order code		
Additional data		HART	PA
Add "-Z" to Order No. and specify Order code.			FF
Measuring range to be set Specify in plain text (max. 5 digits): Y01: ... up to ... mbar, bar, kPa, MPa, psi	Y01	✓	
Measuring point number (TAG No.) 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: mA): 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 units 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 Specify in plain text (standard setting: 126) Y25:	Y25		✓

Only "Y01", "Y21", "Y22", "Y25" and "D05" can be factory preset

✓ = available

¹⁾ Not together with over-filling safety device for flammable and non-flammable liquids (Order code "E08")

Selection and Ordering data	Order No.Ord. code		
Mounting flange Directly mounted on the SITRANS P pressure transmitter (converter part) for level, for DS III series	7 M F 4 9 1 2 -	3	
Connection acc. to EN 1092-1 Nom. diam. DN 80 DN 100 Nom. press. PN 40 PN 16 PN 40	D G H		
Connection acc. to ASME B16.5 Nom. diam. 3 inch 4 inch Nom. press. Class 150 Class 300 Class 150 Class 300	Q R T U		
Other version, add Order code and plain text: Nominal diameter: ...; Nominal pressure: ...	Z		J 1 Y
Wetted parts materials • Stainless steel 316L - Coated with PFA - Coated with PTFE - Coated with ECTFE ¹⁾ • Monel 400, mat. No. 2.4360 • Hastelloy B2, mat. No. 2.4617 • Hastelloy C276, mat. No. 2.4819 • Hastelloy C4, mat. No. 2.4610 • Tantalum Other version, add Order code and plain text: material of parts in contact with the medium: ... Sealing face, see "Technical specifications"	A D E 0 F G H J U K Z		K 1 Y
Tube length • Without • 50 mm (1.97 inch) • 100 mm (3.94 inch) • 150 mm (5.90 inch) • 200 mm (7.87 inch) Other version: add Order code and plain text: Tube length: ...	0 1 2 3 4 9		L 1 Y
Filling liquid • Silicone oil M5 • Silicone oil M50 • High-temperature oil • Halocarbon oil (for O ₂ measurements) • Glycerin / water ²⁾ • Food oil (FDA-listed) Other version, add Order code and plain text: filling liquid: ...	1 2 3 4 6 7 9		M 1 Y

¹⁾ For vacuum on request

²⁾ Not suitable for use in low-pressure range

Selection and Ordering data		Order code	
Further designs Add "-Z" to Order No. and specify Order code.			
Flame flashover lock-out For mounting on zone 0 (including documentation)		A01	✓
Manufacturer's test certificate M To DIN 55350, Part 18 and to ISO 8402		C11	✓
Acceptance test certificate To EN 10204-3.1		C12	✓
Vacuum-proof design (for use in low-pressure range)		V04	✓
Calculation of span of associated pressure transmitter (enclose filled-in questionnaire with order) Note: suffix "Y01" required with pressure transmitter!		Y05	✓

✓ = available