Selection and Ordering data					Order No.						
SITRANS P DS III HART pressure transmitters					4 4	43	3 -				
for differential pressure and flow, PN 32/160 (MWP 464/2320 psi)						•					
Measuring cell filling	Maggyring coll close										
Measuring cen ming	ing										
Silicone oil	normal	►	1								
Inert liquid ¹⁾	Grease-free		3								
Measuring span											
PN 32 (MWP 464 psi)											
1 20 mbar ²⁾	(0.4015 8.03 inH ₂ O)			В							
PN 160 (MWP 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	$(2.409 \dots 240.9 \text{ InH}_2\text{O})$	C		C C							
50 5000 mbar	$(0.424 \dots 042.4 \text{ Int} 1_2\text{O})$ (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			В							
Hastelloy	Hastelloy			С							
Tantalum ³⁾	Tantalum			E							
Monel ³⁾	Monel			H							
Gold ^o , Version for diaphragms	GOID			L							
Female thread 1/4-18 NP	T with flange connection										
 Sealing screw opposit 	e process connection										
- Mounting thread 7/16	-20 UNF to EN 61518	►			2						
- Mounting thread M1	0 to DIN 19213				0						
(only for replacemen	it requirement)										
 Vention side of proces Mounting thread ⁷/₄ 	-20 LINE to EN 61518				6						
- Mounting thread M1	0 to DIN 19213				4						
(only for replacemer	it requirement)										
Non-wetted parts mate	erials										
process flange screws	Electronics housing										
Stainless steel	Die-cast aluminum				2	2					
Stainless steel	Stainless steel precision				3	3					
	casting										
Version											
Standard versions	English labol inscriptions						1				
documentation in 5 la	nguages on CD						2				
Explosion protection											
None							A				
With ATEX, Type of pro	otection:										
- "Intrinsic safety (EEx	ia)"						B				
- Explosion-proof (EE	X 0) ''						D				
(EEx ia + EEx d) ^{"8)}	nameproor enclosure						г				
- "Ex nA/nL (Zone 2)"							E				
- "Intrinsic safety, expl	osion-proof enclosure and						R				
dust explosion prote Zone 1D/2D\ ^{#8)}	ction (EEx ia+ EEx d +										
• With FM + CSA. Type	of protection:										
- "Intrinsic Safe und E	xplosion Proof (is + xp)" ⁷⁾						N	С			

_			_
	Selection and Ordering data	Order No.	
	SITRANS P DS III HART pressure transmitters	7 M F 4 4 3 3 -	
	for differential pressure and flow, PN 32/160 (MWP 464/2320 psi)		
	Electrical connection / cable entry		
	 Screwed gland Pg 13.5⁹⁾ 	A	
	Screwed gland M20 x 1.5	В	
	 Screwed gland ½-14 NPT Han ZD plug (plastic bausing) incl. mating 	C	
	 Hari 7D plug (plastic housing) incl. mating connector⁹⁾¹⁰⁾ 	U	
	• M12 connectors (metal) ¹¹⁾	F	
	Display		
	 Without indicator 	0	
	 Without visible digital indicator(digital indicator concealed, setting: mA) 	1	
	With visible digital indication	6	
	 with customer-specific digital indicator (setting as specified, Order Code "Y21" or "Y22" required) 	(
	Available ex stock		
	Power supply units see Chap. 8 "Supplementary Co	omponents".	
	Included in delivery of the device: • Brief instructions (Leporello) • CD-ROM with detailed documentation • Sealing plug(s) or sealing screw(s) for the process	s flanges(s)	
	¹⁾ For oxygen application, add Order code E10.		
	2) Not suitable for connection of remote seal. Position of the process flange (see dimensional drawing).	of the top vent valve	in
	³⁾ Not in conjunction with max. span 20 and 60 mbar (8	8.03 und 24.09 inH ₂ 0	C))
	⁴⁾ When the manufacture's certificate (calibration certif ordered for transmitters with diaphragm seals accorr is recommended only to order this certificate exclusi phragm seals. The measuring accuracy of the <u>total</u> c here.	icate) has to be ding to IEC 60770-2 vely with the dia- ombination is certifie	, it ed
	⁵⁾ If the acceptance test certificate 3.1.is ordered for th mounted diaphragm seals this certificate must also b respective remote seals.	e transmitter with be ordered with the	
	⁶⁾ Not in conjunction with Electrical connection "Screwe "Han7D plug".	ed gland Pg 13.5" ar	٦d
	7) Without cable gland, with blanking plug		
	⁸⁾ With enclosed cable gland EEx ia and blanking plug		
	⁹⁾ Not in conjunction with types of protection "Explosior "Intrinsic safety" and "Explosion-proof".	n-proof" and "Ex nA"	,
	¹⁰⁾ Permissible only for crimp-contact of conductor cros ¹¹⁾ M12 delivered without cable socket	s-section 1 mm ²	

Selection and Ordering data				Order No					
Pressure transmitters and flow PN 32/160 (M	for differential pressure WP 464/2320 psi)	0	ue	1 1	NO.				
SITRANS P DS III PA (F		7	MF	: 1	43	4			
SITEANS B DS III EE (FOUNDATION Fieldbus)			 M E	- -	4 0 1 0	5			
	oondArion Tielabas)		** *	Ē		J	-		
Measuring cell filling	Measuring cell cleaning		Ī		-	-	T		
Silicone oil	normal	1							
Inert liquid ¹⁾	Grease-free	3							
Nominal measuring rai	nge								
PN 32 (MWP 464 psi)	(() ()								
20 mbar ²⁾	(8.03 inH ₂ O)		в						
PN 160 (MWP 2320 psi)									
60 mbar	(24.09 inH ₂ O)								
250 mbar	(100.4 inH ₂ O)		D						
600 mbar	$(240.9 \text{ inH}_2\text{O})$		E						
5 bar	$(042.4 \text{ INH}_2\text{O})$		r C						
30 har	(2000 mm ₂ O) (435 nsi)		н						
Wetted parts materials	(400 poi)								
vvetted parts materials	flanges)								
Seal diaphragm	Parts of measuring cell								
Stainless steel	Stainless steel		A	۱.					
Hastelloy	Stainless steel		B	8					
Hastelloy	Hastelloy		C						
Iantaium ⁹	Iantaium								
Cold ³⁾	Cold								
Version as diaphragm s	al ⁴⁾⁵⁾		v	;					
Presson connection									
Female thread ¹ / ₄ -18 NP • Sealing screw opposit - Mounting thread ⁷ / ₁₆ - Mounting thread M10 (only for replacemen • Venting on side of proc Mounting thread ⁷ / ₁	T with flange connection e process connection -20 UNF to EN 61518 to DIN 19213 t requirement) cess flanges ²⁾			2 0					
- Mounting thread / ₁₆				6					
- Mounting thread Mill (only for replacemen	t requirement)			4					
Non-wetted parts mate	Flastranica hausing								
process hange screws	Electronics housing								
Stainless steel	Die-cast aluminum				2				
Stainless steel	casting				3				
Version									
Standard versions						1			
International version F	nalish label inscriptions					2			
documentation in 5 lar	nguages on CD					-			
Explosion protection									
• None							Α		
• With ATEX, Type of pro	otection:								
 "Intrinsic safety (EEx 	ia)"						в		
 "Explosion-proof (EE) 	x d)" ⁶⁾						D		
 "Intrinsic safety and f (EEx ia + EEx d)"⁷⁾ 	lameproof enclosure"						Р		
- "Ex nA/nL (Zone 2)"							E		
 "Intrinsic safety, explodust explosion prote Zone 1D/2D)"⁷ (not f With FM + CSA, Type 6 	osion-proof enclosure and ction (EEx ia + EEx d + for DS III FF) of protection:						R		
- "Intrinsic Safe und Ex	$\frac{1}{100}$ kplosion Proof (is + xp) ^{#6)}						NC		

Selection and Ordering data	Order No.
Pressure transmitters for differential pressure and flow PN 32/160 (MWP 464/2320 psi)	
SITRANS P DS III PA (PROFIBUS PA)	7 M F 4 4 3 4 -
SITRANS P DS III FF (FOUNDATION Fieldbus)	7 M F 4 4 3 5 -
Electrical connection / cable entry • Screwed gland M20 x 1.5 • Screwed gland ½-14 NPT • M12 connectors (metal) ⁸⁾	B C F
Display ● Without indicator ● Without visible digital indicator(digital indicator ► concealed, setting: mA) ● With visible digital indication ● With customerspecific digital indication	0 1 6 7
(setting as specified, Order Code "Y21" re- quired)	,

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_2O))
- 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 total 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) Without cable gland, with blanking plug.
- 7) With enclosed cable gland EEx ia and blanking plug.
- 8) M12 delivered without cable socket

Selection and Ordering data	Order code			
Further designs		HART	PA	FF
Add "-Z" to Order No. and				
specify Order Code.				
Pressure transmitter with mounting				
bracket (2 shackles, 4 nuts, 4 U-plates, 1 angle) made of:				
Steel	A01	1	~	1
Stainless steel	A02	1	~	1
O-rings for process flanges				
(instead of FPM (Viton))				
PTFE (Teflon)	A20	1	✓	✓
• FEP (with silicone core, approved for food)	A21	1	✓	✓
 FFPM (Kalrez, compound 4079) 	A22	~	✓	✓
• NBR (Buna N)	A23	~	✓	✓
plug				
 Han 7D (metal, gray) 	A30	1		
Han 8U (instead of Han 7D)	A31	√		
Angled	A32	*		
• Han 8D (metal, gray)	A33	•		
Sealing screws (2 unit(s)	A40	~	~	~
1/4-18 NPT, with valve in mat. of process				
			,	,
Cable sockets for M12 connectors (metal)	A50	•	•	•
Rating plate inscription				
(Instead of German)	D44			
English French	B11 B12	*	¥	*
Spanish	B12	1	~	1
Italian	B14	1	1	1
English rating plate	B21	1	1	1
Pressure units in inH ₂ O and/or psi	521	·	•	•
Quality inspection certificate (factory calibration) to IEC 60770-2 ¹⁾	C11	1	✓	1
Inspection certificate ²⁾ to EN 10204-3.1	C12	✓	✓	✓
Factory certificate to EN 10204-2.2	C14	✓	✓	✓
"Functional safety (SIL2)" certificate	C20	✓		
PROFIsafe certificate and protocol	C21		✓	
"Functional safety (SIL2/3)" certificate	C23	✓		
Setting of upper limit of	D05	✓		
output signal to 22.0 mA				
Manufacturer's declaration acc. to NACE	D07	✓	✓	✓
(only together with seal diaphragm made of Hastelloy and stainless steel)				
Degree of protection IP68 (only for M20 x 1.5 and ½-14 NPT)	D12	~	~	1
Process flange screws made of Monel	D34	✓	✓	✓
(max. nominal pressure PN20)				
Supplied with oval flange set	D37	✓	1	1
(2 items), PTFE packings and screws in thread of process flanges				
Use in or on zone 1D/2D	E01	✓	✓	✓
(only together with type of protection "Intrinsic safety (EEx ia)")				
TÜV approval to AD/TRD	E06	✓		
(only together with type of protection "Intrinsic safety (EEx ia)")				

Selection and Ordering data	Order						
Further designs		HART	PA	FF			
Add "-Z" to Order No. and specify Order Code.							
Overfilling safety device for flammable and non-flammable liquids	E08	1	~	1			
(max. PN 32 (MVWP 464 psi), basic device with type of protection "Intrinsic safety (EEx ia)", to WHG and VbF, not together with measuring cell filling "inert liquid")							
Oxygen application	E10	✓	✓	✓			
(In the case of oxygen measurement and inert liquid max. 120 bar a (1740 psi a) at 60°C (140 °F))							
Explosion-proof "Intrinsic safety" to	E25	✓	✓	✓			
(only for transmitter 7MF4 B)							
	EAE						
(only for transmitter 7MF4B)	E40	•	•	•			
Ex Approval IEC Ex (EEx id)	E46	✓	✓	✓			
(only for transmitter 7MF4D)							
Explosion-proof "Intrinsic safety" to NEPSI (China)	E55	~	~	~			
(only for transmitter 7MF4B)							
Explosion protection "Explosion-proof" to NEPSI (China)	E56	1	~	~			
(only for transmitter 7MF4D)							
Explosion-proof "Zone 2" to NEPSI (China)	E57	✓	✓	✓			
(only for transmitter 7MF4E)							
Two coats of lacquer on casing and cover (PU on epoxy)	G10	1	1	1			
Interchanging of process connection side	H01	✓	✓	1			
Vent on side for gas measurements	H02	✓	✓	✓			
Stainless steel process flanges for vertical differential pressure lines	H03	~	~	✓			
(not together with K01, K02 and K04) ³⁾							
Process flange							
Hastelloy	K01	1	1	1			
Monel	K02	1	1	1			
 Stainless steel with PVDF insert max. PN 10 (MWP 145 psi), max. temporature of medium 90 °C (104 °E) 	K04	~	1	~			
Eastery mounting of volve manifolds and and	opporier	<u>,</u>					
T actory mounting of valve manifolds, see acc	62201165	o.					

Supplementary electronics for 4-wire connection, see accessories.

For ${\it V}_{2}\mbox{-}14$ NPT inner process connection on the side in the middle of the process flanges, vent valve not possible

- ✓ = 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): Volt. una teacher here here here and the second	Y01	*				
 in the case of square rooted characteristic (max. 5 characters): YO2: up to mbar, bar, kPa, MPa, psi 	Y02	*				
Stainless steel tag plate (measuring point description) Max. 16 char., specify in plain text: Y15:	Y15	*	~	~		
Measuring point text	Y16	~	✓	✓		
Max. 27 char., specify in plain text: Y16:						
Entry of HART address (TAG) Max. 8 char., specify in plain text: Y17:	Y17	~				
Setting of pressure indicator in	Y21	✓	✓	✓		
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_2O^{*}), in H_2O^{*}), ft H_2O^{*}), mmHG, inHG, psi, Pa, kPa, MPa, g/cm ² , kg/cm ² , Torr, ATM or % *) ref. temperature 20 °C						
Setting of pressure indicator in non-pres-	Y22	✓				
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)	Y01 or Y02					
Preset bus address	Y25		✓			
possible between 1 and 126 Specify in plain text: Y25:						

Factory mounting of valve manifolds, see accessories.

Only "Y01", "Y21", "Y22", "Y25" and "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 nonflammable liquids (Order Code "E08")

Selection and Ordering	Order No.						
SITRANS P DS III HART pressure transmitters			F45	33	•		
for differential pressure	e and flow,			-			
PN 420 (WWP 6092 ps)							
Measuring cell filling	Measuring cell						
Silicone oil	normal	1					
Measuring span							
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)	Н					
Wetted parts materials							
(stainless steel process	flanges)						
Seal diaphragm	Parts of measuring cell						
Stainless steel	Stainless steel		A				
Hastelloy	Stainless steel	1	в				
Gold ¹⁾	Gold		L				
Connection of remote se	al possible on request						
Process connection	· ·						
Female thread 1/4-18 NP	T with flange connection						
Soaling scrow opposite	a process connection						
Mounting throad 7/			2				
- Mounting thread M11			3				
- Mounting thread M12	t roquiromont)						
Vonting on side of proc							
vent valve at top of proc	cess flances (see dimen-						
sional drawing)							
- Mounting thread ⁷ / ₄₀	-20 UNE to EN 61518		7				
Mounting thread M12 to DIN 19213			5				
(only for replacement	t requirement)		5				
Non-wetted parts mate	rials						
process flange screws	Electronics housing						
Stainless steel	Die-cast aluminum		2				
Stainloss steel	Stainloss stool procision		2				
	casting ²⁾		Ŭ				
Version							
 Standard versions 				1			
International version, E	nglish label inscriptions,			2			
documentation in 5 lar	iguages on CD						
Explosion protection							
None					A		
With ATEX, Type of pro	otection:						
 "Intrinsic safety (EEx 	ia)"				в		
 "Explosion-proof (EE) 	x d)" ³⁾				D		
- "Intrinsic safety and f	lameproof enclosure"				Ρ		
(EEx ia + EEx d)" ⁴⁾							
- "Ex nA/nL (Zone 2)"					Е		
 "Intrinsic safety, explo 	sion-proof enclosure and				R		
dust explosion prote	ction (EEx ia+ EEx d +						
Zone 1D/2D)""							
• With FM + CSA, Type of	of protection:						
 "Intrinsic safety and e (is + xp)" ³⁾ max PN 	explosion-proof 360				N	С	
Electrical connection /	cable entry						
Screwed aland Pa 13	5 ⁵⁾					Δ	
Screwed gland M20v1	5					B	
Screwed aland 1/2-14 N	.e					0	
Han 7D nlug (nlastic b	ousina) incl. matina					n	
connector ⁵⁾⁶⁾	outing mon maining					-	
• M12 connectors (meta	I) ⁷⁾					F	

Selection and Ordering data	Order No.	
SITRANS P DS III HART pressure transmitters for differential pressure and flow,	7 M F 4 5 3 3 -	
Display Without indicator Without visible digital indicator(digital indicator		0
 concealed, setting: mA) With visible digital indication with customer-specific digital indicator (setting as specified, Order Code "Y21" or "Y22" 		6 7

Available ex stock

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

Scope of delivery: Pressure transmitter as ordered (Instruction Manual is extra ordering item)

- ¹⁾ Not in conjunction with max. span 600 mbar (240.9 in H_2O)
- ²⁾ Not in conjunction with Electrical connection "Screwed gland Pg 13.5" and "Han7D plug".
- ³⁾ Without cable gland, with blanking plug
- ⁴⁾ With enclosed cable gland EEx ia and blanking plug
- ⁵⁾ Not in conjunction with types of protection "Explosion-proof" and "Ex nA", "Intrinsic safety" and "Explosion-proof".
- ⁶⁾ Permissible only for crimp-contact of conductor cross-section 1 mm²
- 7) M12 delivered without cable socket

Selection and Orderin	a data	Or	der N					Se	lecti	on a	nd C)rde
Pressure transmitters and flow, PN 420 (MW	for differential pressure P 6092 psi)			10.	•			Pre an	essu d flo	re tra w, Pl	ansr N 42	nitt 0 (I
SITRANS P DS III PA (PROFIBUS PA)	7 1	1F4	53	4 -			SI	FRA	NS P	DS	III F
SITRANS P DS III FF (FOUNDATION Fieldbus)	7 1	1F4	53	5 -			SI	FRA	NS P	DS	III F
·		1										
Nominal measuring ra 250 mbar 600 mbar 1600 mbar 5 bar 30 bar	nge (100.4 inH ₂ O) (240.9 inH ₂ O) (642.4 inH ₂ O) (2008 inH ₂ O) (435 psj)	E F C						Dis • V • V c • V • V	splay Vitho Vitho conce Vith v Vith v	/ ut (d ut vis ealed /isible custo	igital sible I, set e dig mer-	dig dig ting jital
Wetted parts materials	<u>()</u>							(:	settir	ng as	spe	cifi
(stainless steel process Seal diaphragm	flanges) Parts of measuring cell								Avail	able	ex s	toc
Stainless steel Hastelloy Gold ¹⁾ Connection of remote s	Stainless steel Stainless steel Gold eal possible on request		A B L					Inc • E • C • S	slude Brief D-R Sealir	d in Instru OM v ng plu	deliv ictior vith (ug(s)	ery ns (deta) or
Process connection		-						2)	Not i	n con	junct	ion
 Female thread ¼-18 NF Sealing screw opposi Mounting thread ⁷/₁₁ Mounting thread M1 (only for replacemer Venting on side of provent valve at top of prosional drawing). 	PT with flange connection te process connection g-20 UNF to EN 61518 2 to DIN 19213 at requirement) wcess flanges, location of occess flanges (see dimen-		3 1					3) 4)	With With M12	encic delive	ible (ised ered	giar cat with
- Mounting thread ⁷ / ₁₆	₆ -20 UNF to EN 61518		7									
 Mounting thread M1 (only for replacement 	2 to DIN 19213 ht requirement)		5									
Non-wetted parts mate	erials											
Process flange screws	Electronics housing											
Stainless steel Stainless steel	Die-cast aluminum Stainless steel precision casting			2 3								
Version		_										
 Standard versions International version, documentation in 5 la 	English label inscriptions, ► nguages on CD				1 2							
Explosion protection												
 None With ATEX, Type of pro- "Intrinsic safety (EEx "Explosion-proof (EE "Intrinsic safety and (EEx ia + EEx d)⁽³⁾ 	otection: < ia)" Ex d)" ²⁾ flameproof enclosure"				E C F	3						
 "Ex nA/nL (Zone 2)" "Intrinsic safety, expl dust explosion prote Zone 1D/2D)"³⁾ (not With FM + CSA, Type "Intrinsic safety and (is + xp)"²⁾, max PN 	osion-proof enclosure and ection (EEx ia + EEx d + for DS III FF) of protection: explosion-proof 360				F							
Electrical connection	/ cable entry											
 Screwed gland M20 x Screwed gland ½-14 M12 connectors (meta) 	: 1.5 NPT al) ⁴⁾					B C F						

Pressure transmitters for differential pressure and flow, PN 420 (MWP 6092 psi)		
SITRANS P DS III PA (PROFIBUS PA)	7 M F 4 5 3 4	-
SITRANS P DS III FF (FOUNDATION Fieldbus)	7 M F 4 5 3 5	-
	1	÷,
Display		
 Without (digital display hidden) Without visible digital indicator (digital indicator) 		
concealed, setting: mA)		
With visible digital indicator		
With customer-specific digital indicator (setting as specified. Order Code "Y21" re-		
quired)		
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 proc 	ess flanges(s)	
1) Not in conjunction with max. span 600 mbar (240.	.9 inH ₂ O)	
²⁾ Without cable gland, with blanking plug.	2,	
³⁾ With enclosed cable gland EEx ia and blanking p	lug.	
⁴⁾ M12 delivered without cable socket		

Selection and Ordering data	Order	code		
	Oraci		DA	
		HARI	FA	FF
Add "-2" to Order No. and specify Order Code.				
Brossure transmitter with mounting				
bracket (2 shackles, 4 nuts, 4 U-plates,				
1 angle) made of:				
• Steel	A01	V	✓.	√
Stainless steel	A02	~	~	~
O-rings for process flanges				
(instead of FPM (Viton))				
PTFE (Teflon)	A20	✓	✓	✓
• FEP (with silicone core, approved for food)	A21	~	✓	1
 FFPM (Kalrez, compound 4079) 	A22	1	1	1
• 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	✓	1	1
1/4-18 NPT, with valve in mat. of process				
flanges				
Cable sockets for M12 connectors (metal)	A50	✓	✓	✓
Rating plate inscription				
(instead of German)				
• English	B11	~	~	1
• French	B12	~	~	~
• Spanish	B13	1	~	1
Italian	B14	~	~	~
English rating plate Pressure units in inH ₂ O and/or psi	B21	1	~	1
Quality inspection certificate	C11	✓	✓	✓
(factory calibration) to IEC 60770-2				
Inspection certificate	C12	~	~	1
Acc. to EN 10204-3.1				
Factory certificate	C14	✓	✓	✓
Acc. to EN 10204-2.2				
"Functional safety (SIL2)" certificate	C20	✓		
PROFIsafe certificate and protocol	C21		✓	
"Functional safety (SIL2/3)" certificate	C23	✓		
Setting of upper limit of	D05	✓		
output signal to 22.0 mA				
Manufacturer's declaration acc. to NACE	D07	✓	✓	✓
(only together with seal diaphragm made of Hastelloy and stainless steel)				
Degree of protection IP68	D12	✓	✓	✓
(only for M20 x 1.5 and ½-14 NPT)				
Use in or on zone 1D/2D	E01	~	~	~
(only together with type of protection "Intrinsic safety (EEx ia)")				
Explosion-proof "Intrinsic safety" to INMETRO (Brazil)	E25	1	1	1
(only for transmitter 7MF4B)				
Ex Approval IEC Ex (EEx ia)	E45	1	1	1
(only for transmitter 7MF4B)				
Ex Approval IEC Ex (EEx id)	E46	✓	1	1
(only for transmitter 7MF4D)				

Selection and Ordering data	Order code			
Further designs		HART	PA	FF
Add " -Z " to Order No. and specify Order Code.				
Explosion-proof "Intrinsic safety" to NEPSI (China) (only for transmitter 7MF4B)	E55	1	~	1
Explosion protection "Explosion-proof" to NEPSI (China)	E56	1	✓	~
(only for transmitter 7MF4D)				
Explosion-proof "Zone 2" to NEPSI (China) (only for transmitter 7MF4E)	E57	*	~	~
Two coats of lacquer on casing and cover (PU on epoxy)	G10	*	1	~
Interchanging of process connection side	H01	✓	✓	~
Stainless steel process flanges for vertical differential pressure lines	H03	1	1	~
Additional data				
Please add "-2" 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	~		
 Y01: up to mbar, bar, kPa, MPa, psi in the case of square rooted characteristic (max. 5 characters): 	Y02	1		
Y02: up to mbar, bar, kPa, MPa, psi				
Stainless steel tag plate (measuring point description) Max. 16 characters, specify in plain text: Y15:	Y15	~	~	1
Measuring point text Max. 27 characters, specify in plain text: Y16:	Y16	*	1	~
Entry of HART address (TAG) Max. 8 characters, specify in plain text: Y17:	Y17	*		
Setting of pressure indication in pressure	Y21	1	✓	✓
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_2O^{*} , in H_2O^{*} , ft H_2O^{*} , mmHG, inHG, psi, Pa, kPa, MPa, g/cm ² , kg/cm ² , Torr, ATM or % *) ref. temperature 20 °C				
Setting of pressure indication in	Y22 +	1		
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" or "Y02" is essential, unit with max. 5 characters)	Y01 OF Y02			
Preset bus address	Y25		1	
possible between 1 and 126 Specify in plain text: Y25:				
Factory mounting of valve manifolds, see accessories.				

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

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

^{✓ =} available