SITEANS P DS III with HART pressure trans- titles for differential pressure and filling. Measuring cell filling. Measuring cell clean- ing filling. Measuring span (min. max). PN 257 (64)MP 496 pp. 1. 20 may 79 (0.405 s. 8.03 inH ₂ O) > 8 PN 152 (64)MP 496 pp. 1. 2. 20 may 79 (0.405 s. 8.03 inH ₂ O) > 8 PN 152 (64)MP 496 pp. 1. 3. 20 may 79 (0.405 s. 8.03 inH ₂ O) > 8 PN 152 (64)MP 496 pp. 1. 4. 3. 4.5. 4.5. 8.6 pp. 1. 5. 600 mbar (0.42 s. 6.24 inH ₂ O) > 0 2. 5. 200 mbar (1.004 s. 10.04 inH ₂ O) > 0 2. 5. 200 mbar (2.00 s. 2000 inH ₂ O) > 0 2. 5. 200 mbar (2.00 s. 2000 inH ₂ O) > 0 2. 5. 200 mbar (2.00 s. 2000 inH ₂ O) > 0 2. 5. 3. 300 bar (4.35 s. 4.55 pp.) > 0 1. 6. 600 mbar (6.42 s. 6.24 inH ₂ O) > 0 2. 6. 200 mbar (2.00 s. 2000 inH ₂ O) > 0 2. 5. 200 mbar (2.00 s. 2000 inH ₂ O) > 0 2. 5. 200 mbar (2.00 s. 2000 inH ₂ O) > 0 2. 5. 200 mbar (2.00 s. 2000 inH ₂ O) > 0 2. 5. 200 mbar (2.00 s. 2000 inH ₂ O) > 0 2. 5. 200 mbar (2.00 s. 2000 inH ₂ O) > 0 2. 6. 2	Selection and Ordering	g data	Orc	ler No.				Selection and Ordering data		Order No.
mitters for differential pressure and flow, Ph. 32/160 (MAWP 464/2320 psi) Measuring cell filling		•						<u> </u>		
Measuring cell filling Measuring cell cleaning Silicono oil mormal mortification mormal mormal mortification mormal morma	mitters for differential	pressure and flow,				П		mitters for differential pressure and flow,		
Silicone oil normal page (min max.) Messuring spen (min							_	· · · · · · · · · · · · · · · · · · ·	-	
Inert liquid 19 grease-free to clearliness love 2 Messuring span (minmax.) Massuring span (minmax.) PN 32 (MANP 44 pts) 1 20 nabar ²³ 1 20 nabar ²	0 0	_								Α
Measuring span (min max) PN 32 (MAWP 464 pag) 120 mbar? (0.40158.03 inH ₂ O) ▶ B PN 160 (MAWP 2320 ps) 150 mbar (1.00410.4 inH ₂ O) ▶ C 2.5250 mbar (1.00410.4 inH ₂ O) ▶ C 650 mbar (2.006208 inH ₂ O) ▶ C 650 mbar (4.35435 ps) ▶ H Wetted parts materials stated							•	Screwed gland M20 x 1.5	▶	В
Measuring span (minmax.) PM 32 (MAWP 464 ps) 1 20 mbar (0.40158.03 inH₂O) ▶ 8 PN 150 (MAWP 2320 ps) 1 20 mbar (0.401524.09 inH₂O) ▶ C 2.5 220 mbar (0.401524.09 inH₂O) ▶ E 6 600 mbar (2.4092409 inH₂O) ▶ E 10 1000 mbar (2.4092409 inH₂O) ▶ E 10 1000 mbar (2.4092006 inH₂O) ▶ E 10 1000 mbar (2.409200 mbar (2.409 mbar (2.409 mbar (2.409 mbar (2.409 mbar (2.409 mba	Inert liquid 1)		3				•	Screwed gland ½-14 NPT		С
PN 32 (MAWP 464 paj) 1 60 mbar (0.40158 03 inH ₂ O) ▶ B PN 160 (MAWP 2320 ps) 1 60 mbar (1.604			-1				•	Han 7D plug (plastic housing) incl. mating		D
120 mbar? (0.401524.09 inH ₂ O) ▶ B File (MAMPA/320 ps) 160 mbar (0.401524.09 inH ₂ O) ▶ C 6600 bbar (0.401524.09 inH ₂ O) ▶ C 6600 bbar (0.40224.09 inH ₂ O) ▶ C 6400 bbar (0.40224.09 inH ₂ O) ▶ C 6401 bbar (0.40224.09 inH ₂ O) bbar (0.40224.09 inH ₂ O) 6401 bba		max.)						Connector (2) (3)		_
PN 160 (MAWP 2320 ps) (0, 4015 24, 09 inHyG) 2		(0.4045 0.00 ; 11.0)					-			
150 mbar (1.004. InH ₂ O)			В					• •		
2.5 of 250 mbar (1.004 1004 inH-50	,	,								
6 600 mbar (6.44 p 240 p. 1+f_O)		` _ /					ľ			1
• with customer-specific display (2.43	*	/	_							6
Solutions as specified. Order Code "Y21" or "Y22" (setting as specified. Order Code "Y21" or "Y22" (required) Wetted parts materials (stainless steel process flanges) Stainless steel Stainless steel Bastelloy Hastelloy Honnel Gold Gold Col-ROM with detailed documentation Sealing screw(s) for the process flanges(s) Process connection Female thread 1/4 18 NPT with flange connection Sealing screw opposite process connection Mounting thread 1/1/12 20 UNF to IEC 61518 Mounting thre		· _ /								
Wetted parts materials (stainless steel process flanges) Soal diaphragm Parts of measuring cell Stainless steel process flanges) Soal diaphragm Parts of measuring cell Stainless steel Stainless steel B Hastelloy Hastelloy C Tantalum' Monnel' Monnel' Monnel' Monnel' Monnel' Mondel Gold' Cold L Version for diaphragm seaf ⁴ is 99 77 Version for diaphragm seaf ⁴ is 99 77 Process connection Formals thread V-18 NPT with flange connection - Mounting thread M 10 to Dil N 19213 (only for replacement requirement) - Vert on side of process flanges 2 - Mounting thread M 10 to Dil N 19213 (only for replacement requirement) - Non-wetted parts materials process stainges steel - Stainless steel - Die-cast aluminum - Stainless steel - S		/							"	
Wetted parts materials (staniless steel process flanges) Sal diaphragm Parts of measuring cell Stainless steel Stainless stee								, ,		
Included in delivery of the device:	Wetted parts materials	. ,								
Stainless steel Stainless steel A B Hastelloy Stainless steel B B C Tantalum Stainless steel B C Tantalum Stainless steel Stainless steel Stainless steel Stainless steel Scaling sorew (s) for the process flanges (s) For oxygen application, add Order code E10. Porocess connection Process connection									Cor	mponents".
Hastelloy Stainless steel Bastelloy Stainless steel Bastelloy Stainless steel Bastelloy Hastelloy Cantalum Embarage Bastelloy Cantalum Embarage Cantalum Cantalu	Seal diaphragm	Parts of measuring cell								
Hastelloy Stainless steel Hastelloy Hastelloy C Tantalum* Monel* Monel* Gold* Gold* Morel* Gold* Ordination* Female thread %-18 NPT with flange connection Female thread flange conn	Stainless steel	Stainless steel		Α						
Tantalum ³) Tantalum Monel ³ Monel Gold Monel ³ Gold Version for diaphragm seal ⁴ (*) 5) 6) 7) Process connection Female thread ¼-18 NPT with flange connection - Sealing screw opposite process connection - Sealing screw opposite process connection - Mounting thread ¼-12 OUNF to IEC 61518 - Mounting thread M10 to DIN 19213 (Non-wetted parts materials process flange screws Electronics housing Stainless steel Stainless steel Die-cast aluminum - Stainless steel Stainless steel precision casting ³⁾ Version - Standard versions - Intrinsics safety (Ex (a)²) - Explosion-proof (Ex (d)²) - Two that ATEX, Type of protection: - Intrinsic safety (Ex (a)²) - Tx (A)(c (Zone 2)²¹¹¹) - Tx (A)(c (Zone 2)²¹¹²) - Tx (A)(c (Zone 2)²¹¹²) - Tx (A)(c (Zone 2)²¹¹²) - Tx (A)(c (Zone 2)²¹²) - Tx (A)(c (Zone 2)²¹²) - Tx (A)(c (Zone 2)²¹²) - Tx (A)(c (Zone 2)²²²) - Tx (A)(c (Zone 2)²²²²) - Tx (A)(c (Zone 2)²²²) - Tx (A)(c (Zone 2)²²²) - Tx (A)(c (Zone 2)²²²) - Tx (A)(c (Zone 2)²²²²) - Tx (A)(c (Zone 2)²²²²²) - Tx (A)(c (Zone 2)²²²²) - Tx (A)(c (Zone 2)²²²²) - Tx (A)(Hastelloy	Stainless steel		В					ess	flanges(s)
Monel 9 Monel Gold 9 Gold Gold L Y Y Version for diaphragm seal 9 5 16 7 7 Version for diaphragm seal 9 5 16 7 7 Version for diaphragm seal 9 5 16 7 7 Version for diaphragm seal 9 5 16 7 7 Version for diaphragm seal 9 5 16 7 7 Version for diaphragm seal 9 5 16 7 7 Version for diaphragm seal 9 5 16 7 7 Version for diaphragm seal 9 5 16 7 7 Version for diaphragm seal 9 5 16 7 7 Version 8 Version for diaphragm seal 9 5 16 7 7 Version 8 Version for diaphragm seals according to 12 0 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18		Hastelloy						1) 5		
Gold-9 Gold Gold Gold Gold Gold Version for diaphragm seal* (9 is 6) in 7) Yerocess connection Female thread (3-18 NPT with flange connection - Sealing screw opposite process connection - Mounting thread 716 20 UNF to IEC 61518								, , , , , , , , , , , , , , , , , , , ,	,	
Version for diaphragm seal* 15 is 6 7? Process connection Female thread 3/-18 NPT with flange connection - Sealing screw opposite process connection - Mounting thread 7/16; 20 UNF to IEC 61518 ▶ 2 - Mounting thread 7/16; 20 UNF to IEC 61518 ▶ 2 - Mounting thread 7/16; 20 UNF to IEC 61518 ▶ 2 - Mounting thread 7/16; 20 UNF to IEC 61518 ▶ 3 - Wert on side of process flange 2? - Mounting thread 7/16; 20 UNF to IEC 661518							-		n ot	tne top vent valve in
Process connection Female thread %-1s 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) • Vent on side of process flange 2 • Mounting thread M10 to DIN 19213 (only for replacement requirement) Non-wetted parts materials process flange screws Electronics housing Stainless steel Die-cast aluminum • Stainless steel Die-cast aluminum • Stainless steel Die-cast aluminum • Stainless steel Casting Stainless Stainless steel Casting Stainless S	Gold ^{o)}	Gold					3		r (8.	03 und 24.09 inH ₂ O))
ordered for transmitters with diaphragm seals according to IEC 607702, it is recommended only with diaphragm seals according to IEC 607702, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the Iotal combination is certified here. Mounting thread M10 to DIN 19213 (only for replacement requirement) Vent on side of process flange 20 Mounting thread M10 to DIN 19213 (only for replacement requirement) Non-wetted parts materials process flange screws Electronics housing Stainless steel Die-cast aluminum Stainless steel Stainless steel precision casting 9 Version Version Vintra in the material on 15 languages on CD (no order code selectable) Explosion protection None A With ATEX, Type of protection: Intrinsic safety (Ex ia)* Explosion-proof (Ex id)* Intrinsic safety and flameproof enclosure and dust explosion-proof enclosure and dust explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d AZD)* Intrinsic safety supplies to protection (Ex ia+ Ex d AZD)* Intrinsic safety (Ex ia)* Intrinsic safety (Ex ia)* With HFM + CSA, (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of protection:		seal ' ' ' '	_	•						_
 Sealing screw opposite process connection Mounting thread 7/_{1c}20 UNF to IEC 61518 Mounting thread M10 to DIN 19213		T with flance connection								
- Mounting thread ⁷ / ₁₆ -20 UNF to IEC 61518										
- Mounting thread M10 to DIN 19213 (only for replacement requirement) • Vent on side of process flange ²⁾ - Mounting thread 7/ ₁₆ :20 UNF to IEC 61518 - Mounting thread 7/ ₁₆ :20 UNF to IEC 61518 - Mounting thread M10 to DIN 19213 (only for replacement requirement) Non-wetted parts materials process flange screws Electronics housing Stainless steel Die-cast aluminum				2				here.	_	
 (bit) for Pelpacement Requirements (Part of Seals). Vent on side of process flange ²) Mounting thread ⁷/₁₆-20 UNF to IEC 61518 Mounting thread M10 to DIN 19213 (only for replacement requirement) Non-wetted parts materials process flange screws Electronics housing Stainless steel Die-cast aluminum Stainless steel Stainless steel precision casting⁸) Version Standard versions • Standard version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection • None • With ATEX, Type of protection: • "Intrinsic safety (Ex ia)" • "Explosion-proof (Ex d)"⁹) • "Intrinsic safety (Ex ia)" • "Explosion-proof enclosure" (Ex ia + Ex d)"¹⁰ • "Ex nA/ic (Zone 2)*¹¹) • "M + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection: 								ii iile deceptariee teet eertiiledte e. iile erdered ie		
 Vert on side of process flange ²¹ - Mounting thread ⁷/₁₆-20 UNF to IEC 61518 - Mounting thread M10 to DIN 19213 (only for replacement requirement) Non-wetted parts materials process flange screws Electronics housing Stainless steel									50 D	e ordered with the
- Mounting thread M10 to DIN 19213 (only for replacement requirement) Non-wetted parts materials process flange screws Electronics housing Stainless steel Die-cast aluminum Stainless steel Die-cast aluminum Stainless steel Stainless steel precision casting ⁸⁾ Version Standard versions International version, English label inscriptions, addocumentation in 5 languages on CD (no order code selectable) Explosion protection - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)" - "Intrinsic safety (Ex ia)" - "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)" - "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)" - FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With + CSA, Type of protection: - "With FM + CSA, Type of protection: - With + CSA, Type of protection: - With + CSA, Type of protection: - With FM + CSA, Type of protection:	Vent on side of proces	ss flange 2)					6	5) The diaphragm seal is to be specified with a sep.	arate	order number and
(only for replacement requirement) Non-wetted parts materials process flange screws Electronics housing Stainless steel Die-cast aluminum ► 2 Stainless steel Stainless steel precision casting® Version Standard versions International version, English label inscriptions, ► documentation in 5 languages on CD (no order code selectable) Explosion protection None With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)" - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)" - "Intrinsic safety, and flameproof enclosure" (Ex ia + Ex d)" - "Intrinsic safety, explosion-proof enclosure and ► dust explosion protection (Ex ia+ Ex d + Zone 1D/ZD)" - "FM + CSA (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of protection: - With FM + CSA, Type of protection: - With FM + CSA, Type of protection:								must be included wiht the tranmitter order number	r, foi	r example
Non-wetted parts materials process flange screws				4			,		ono i	with romoto apple (V)
process flange screws			_						0115	with remote seals (1)
Stainless steel Stainless steel precision casting steel precision steel stain steel precision steel stain steel precision steel stain steel precision state steel plus state steel precision state steel precision state steel precision state steel precision state steel plus state steel plus state steel precision state steel precision state steel precision state steel precision state state steel precision state steel precision state state steel precision state state steel plus states state steel plus states state steel plus states states states states and states s	process flange screws	Electronics housing					8		ewed	d gland Pg 13.5" and
Version Standard versions International version, English label inscriptions, of coorder code selectable) Explosion protection None With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)" - "Intrinsic safety (and "Explosion-proof". Base of the first o							9	⁹⁾ Without cable gland, with blanking plug		
Version Standard versions International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection None With ATEX, Type of protection: "Intrinsic safety (Ex ia)" "Explosion-proof (Ex d)" "Explosion-proof (Ex d)" "Explosion-proof enclosure" (Ex ia + Ex d)" "Ex nA/ic (Zone 2)" "Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia + Ex d + Zone 1D/2D)" FM + CSA (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of protection: 11) Configurations with HAN and M12 connectors are only available in Ex ic. 12) Not in conjunction with types of protection "Explosion-proof". 13) Permissible only for crimp-contact of conductor cross-section 1 mm² 14) M12 delivered without cable socket. Not available with protection type "Explosion-proof". 8 B "Explosion-proof (Ex d)" P (Ex ia + Ex d)" Intrinsic safety, explosion-proof enclosure and dust explosion protection (Ex ia + Ex d + Zone 1D/2D)" FM + CSA (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of protection:	otainiess steel			3				9	_	
 Standard versions International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) 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)*¹¹¹) - "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: 	Version	3						=		•
 International version, English label inscriptions, documentation in 5 languages on CD (no order code selectable) Explosion protection None With ATEX, Type of protection: "Intrinsic safety (Ex ia)" "Explosion-proof (Ex d)*9 "Intrinsic safety and Explosion-proof*. B "Explosion 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: 					1			12) Not in conjunction with types of protection "Explo	sion-	-proof" and "Ex nA",
(no order code selectable) Explosion protection None None With ATEX, Type of protection: - "Intrinsic safety (Ex ia)" - "Explosion-proof (Ex d)" - "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)" - "Ex nA/ic (Zone 2)" - "Intrinsic safety, explosion-proof enclosure and but explosion protection (Ex ia + Ex d + Zone 1D/2D)" FM + CSA (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of protection:	• International version, E								rooo	anation 1 mm²
Explosion protection None 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) - "Ex nA/ic (Zone 2)*110 - "Intrinsic safety, explosion-proof enclosure and bust explosion protection (Ex ia + Ex d + Zone 1D/2D)*100 FM + CSA (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of 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: 		abie)	_						J WV 1 C	ii protection type
 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: 					۸					
- "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:		otection:			^					
- "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:					В					
- "Intrinsic safety and flameproof enclosure" (Ex ia + Ex d)*10) - "Ex nA/ic (Zone 2)*11) - "Intrinsic safety, explosion-proof enclosure and ▶ R 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:	- "Explosion-proof (Ex	d)" ⁹⁾								
(Ex ia + Ex d)* ¹⁰ - "Ex nA/ic (Zone 2)* ¹¹) - "Intrinsic safety, explosion-proof enclosure and ▶ R 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 safety and	flameproof enclosure"			P					
- "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:	(Ex ia + Ex d)" 10)									
dust explosion protection (Ex ia+ Ex d + Zone 1D/2D)* ¹⁽⁰⁾ • FM + CSA (is + ep) + Ex ia + Ex d (ATEX) • With FM + CSA, Type of protection:	. ,									
 FM + CSA (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of protection: 					R					
 FM + CSA (is + ep) + Ex ia + Ex d (ATEX) With FM + CSA, Type of protection: 	Zone 1D/2D) ^{#10)}	OUDIT (EX IGT EX G T								
	• FM + CSA (is + ep) +	Ex ia + Ex d (ATEX)			S					
- "Intrinsic Safe und Explosion Proof (is + xp)" ⁹⁾ NC										
	- "Intrinsic Safe und E	xplosion Proof (is + xp)"9)			N	С				

Pressure transmitters for differential pressure and flow PN 32/160 (MAWP 464/2320 psi) Pressure transmitters for differential presaure and flow PN 32/160 (MAWP 464/2320 psi)		
and flow PN 32/160 (MAWP 464/2320 psi) and flow PN 32/160 (MAWP 464/2320 psi)		
SITRANS P DS III with PROFIBUS PA (PA) 7 M F 4 4 3 4 - SITRANS P DS III with PROFIBUS PA (PA)	•	
SITRANS P DS III with FOUNDATION Fieldbus 7 M F 4 4 3 5 - SITRANS P DS III with FOUNDATION Field (FE)	dbus 7MF4435-	
(FF)		
Measuring cell filling Measuring cell Electrical connection/cable entry		
cleaning ● Screwed gland M20 x 1.5		В
Silicone oil normal 1 • Screwed gland ½-14 NPT		С
Inert liquid 1) grease-free to cleanliness level 2 • M12 connectors (stainless steel) 11) 12) 13)		F
Display		
PN 32 (MAWP 464 psi) Without display Without visible display		0
20 mbar ²⁾ (8.03 inH ₂ O) B (display concealed, setting: mA)		
PN 160 (MAWP 2320 psi) • With visible display		6
60 mbar (24.09 inH ₂ O) C • With customer-specific display		7
250 mbar (100.4 inH ₂ O) D (setting as specified, Order Code "Y21" required)	9-	4 .
600 mbar (240.9 inH ₂ O)		
		ļ
5 bar (2008 inH ₂ O) G Included in delivery of the device: 30 bar (435 psi) H • Brief instructions (Leporello)		
CD-ROM with detailed documentation		
• Sealing plug(s) or sealing screw(s) for the (stainless steel process flanges)	process flanges(s)	
Seal diaphragm Parts of measuring cell ¹⁾ For oxygen application, add Order code E1		
Stainless steel Stainless steel 2) Not suitable for connection of remote seal. F	Position of the top vent v	alve in
Hastellay Stainlass steal R the process flange (see dimensional drawin	•	
Hastelloy Hastelloy C Not in conjunction with max. span 20 and 60		
Tantalum 3) Tantalum E When the manufacture's certificate (calibration ordered for transmitters with diaphragm sea		
Monel H is recommended only to order this certificate	e exclusively with the dia	a-
Gold Sold Sold Sold Sold Sold Sold Sold S	ne total combination is co	ertified
5) If the acceptance test certificate 3.1.is orde	red for the transmitter w	ith
Process connection mounted diaphragm seals this certificate mi respective remote seals.	ust also be ordered with	the
Sealing screw opposite process connection The diaphragm seal is to be specified with a specified wi	e conarate order numbe	er and
- Mounting thread ⁷ / ₁₆ -20 UNF to IEC 61518 2 must be included with the tranmitter order n	umber, for example	lanu
- Mounting thread M10 to DIN 19213 0 7MF443Y und 7MF4900-1B		0
(only for replacement requirement) 7) The standard measuring cell filling for configuration of precess flagges? is silicone oil.	gurations with remote se	:als (Y)
Mounting this deed if process hanges . Mounting this track 7/ 0.0 UNIT to IFC 61519.		
9) With analogaed gable gland Ev is and blacking	na plua.	
- Mounting thread M10 to DIN 19213 (only for replacement requirement) 4 With enclosed cable gland Ex la and blanking (only for replacement requirement)		Ex ic.
Non-wetted parts materials 11)M12 delivered without cable socket		
process flange screws Electronics housing 12) Not available with protection type "Ex d" (or		
Stainless steel Die-cast aluminum 2 133 Not in conjunction with types of protection "Is "Intrinsic safety" and "Explosion-proof".	Explosion-proof" and "Ex	(nA",
Stainless steel Stainless steel precision 3 3		
casting		
Version • Standard versions 1		
• International version, English label inscriptions, > 2		
documentation in 5 languages on CD		
(no order code selectable)		
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) ⁽⁵⁾		
- "Ex nA/ic (Zone 2)" 10) - "Intrinsic safety, explosion-proof enclosure and R		
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)" NC		
- Intrinsic Sale and Explosion Proof (is + xp) / NC		

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.				
Pressure transmitter with mounting bracket (2 shackles, 4 nuts, 4 U-plates,					Overfilling safety device for flammable and non-flammable liquids	E08	✓		
1 angle) made of:					(max. PN 32 (MAWP 464 psi), basic device				
• Steel	A01	1	√	1	with type of protection "Intrinsic safety (Ex ia)", to WHG and VbF, not together with measuring				
Stainless steel	A02	V	✓	✓	cell filling "inert liquid")				
O-rings for process flanges (instead of FPM (Viton))					Oxygen application	E10	✓	1	✓
PTFE (Teflon)	A20	1	1	1	(In the case of oxygen measurement and inert				
• FEP (with silicone core, approved for food)	A21	1	1	1	liquid max. 100 bar (1450 psi) at 60°C (140 °F))				
• FFPM (Kalrez, compound 4079)	A22	✓	✓	✓	Export approval Korea	E11	✓	✓	✓
NBR (Buna N)	A23	✓	✓	✓	Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil)	E25	✓	✓	✓
plug • Han 7D (metal, gray)	A30	1			(only for transmitter 7MF4B)				
Han 8U (instead of Han 7D)	A31	1			"Flameproof" explosion protection accord-	E26	✓	✓	✓
• Angled	A32	✓			ing to INMETRO (Brazil)				
Han 8D (metal, gray)	A33	✓			(only for transmitter 7MF4D)				
Sealing screws (2 unit(s)	A40	✓	✓	✓	Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil)	E28	✓	✓	
1/4-18 NPT, with valve in mat. of process flanges					(only for transmitter 7MF4P)				
Cable sockets for M12 connectors	A50	1	1	1	Ex Approval IEC Ex (Ex ia)	E45	✓	1	✓
(stainless steel)					(only for transmitter 7MF4B)				
Rating plate inscription					Ex Approval IEC Ex (Ex id)	E46	✓	✓	✓
(instead of German)			,		(only for transmitter 7MF4D)				
EnglishFrench	B11 B12	1	1	1	Explosion-proof "Intrinsic safety" to NEPSI	E55	✓	✓	✓
• Spanish	B13	1	1	1	(China) (only for transmitter 7MF4B)				
• Italian	B14	✓	✓	✓	Explosion protection "Explosion-proof" to	F56	1	1	1
English rating plate	B21	✓	1	1	NEPSI (China)	L30	•	•	·
Pressure units in inH ₂ O and/or psi					(only for transmitter 7MF4				
Quality inspection certificate (Five-step factory calibration) to IEC 60770-2 ¹⁾	C11	1	✓	✓	Explosion-proof "Zone 2" to NEPSI (China) (only for transmitter 7MF4E)	E57	✓	✓	✓
Inspection certificate ²⁾ to EN 10204-3.1	C12	✓	✓	✓	"Intrinsic safety" and "Explosion-proof"	E70	✓	✓	✓
Factory certificate to EN 10204-2.2	C14	✓	✓	1	explosion protection acc. to Kosha (Korea)				
"Functional safety (SIL2)" certificate to IEC 61508	C20	✓			(only for transmitter 7MF4[B, D]Z + E11)				
"Functional safety" certificate (PROFIsafe) and PROFIsafe protocol	C21		✓		Two coats of lacquer on casing and cover (PU on epoxy)	G10	✓	✓	✓
"Functional safety (SIL2/3)" certificate	C23	1			Interchanging of process connection side	H01	✓	✓	✓
to IEC 61508					Vent on side for gas measurements	H02	✓	✓	✓
Device passport Russia (For price request please contact the technical support	C99	✓	✓	✓	Stainless steel process flanges for vertical differential pressure lines	H03	✓	✓	✓
www.siemens.com/automation/support-request)					(not together with K01, K02 and K04) ³⁾				
Setting of upper limit of	D05	✓			Process flange	1/2/			
output signal to 22.0 mA					Hastelloy Monel	K01 K02	1	1	1
Manufacturer's declaration acc. to NACE	D07	✓	✓	✓	Stainless steel with PVDF insert	K04	1	1	*
(only together with seal diaphragm made of Hastelloy and stainless steel)					max. PN 10 (MAWP 145 psi),				
Degree of protection IP65/IP68	D12	1	1	1	max. temperature of medium 90 °C (194 °F) For ½-14 NPT inner process connection on				
(only for M20 x 1.5 and ½-14 NPT)					the side in the middle of the process flange,				
Process flange screws made of Monel	D34	✓	✓	✓	vent valve not possible	oogor! s			
(max. nominal pressure PN20)					Factory mounting of valve manifolds, see acco				
Supplied with oval flange set	D37	✓	✓	✓	Supplementary electronics for 4-wire connecti	ion, see	access	sories	
(2 items), PTFE packings and screws in thread of process flanges					✓ = available				
Use in or on zone 1D/2D	E01	✓	✓	✓	1) When the manufacture's certificate (calibration or				
(only together with type of protection "Intrinsic safety"					for transmitters with diaphragm seals according mended only to order this certificate exclusively v measuring accuracy of the total combination is o	vith the d	iaphrag		
(transmitter 7MF4B Ex ia)")					2) If the acceptance test certificate 3.1.is ordered	d for the	transmit		
TÜV approval to AD/TRD	E06	✓			mounted diaphragm seals this certificate must respective remote seals.				
(only together with type of protection "Intrinsic safety (Ex ia)")					3) Not suitable for connection of remote seal				
muniolo salety (Exila))					The contable for confidence of the first contable contabl				

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	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) 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	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^*), inH_2O^*), ftH_2O^*), mmHG, inHG, psi, Pa, kPa, MPa, g/cm^2 , kg/cm², Torr, ATM or % *) ref. temperature 20 °C				
Setting of pressure indicator in non-pressure units)	Y22 ²⁾	✓		
Specify in plain text: Y22: up to I/min, m³/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 possible between 1 and 126 Specify in plain text: Y25:	Y25		✓	1

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.

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

Selection and Orderin	g data	Orde	er No).
	HART pressure trans-	7 M F	4 5	3 3 -
mitters for differential PN 420 (MAWP 6092 p				-
Measuring cell filling	Measuring cell			
Silicone oil	cleaning 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)	Н		
Wetted parts materials				
(stainless steel process Seal diaphragm	flanges) Parts of measuring cell			
Stainless steel	Stainless steel	A		
Hastelloy Gold ¹⁾	Stainless steel Gold	B		
Gold '' Ausführung als Membra		L V		
	andruonniillioi / / /	Ţ		
Process connection	OT with flamma carrier atta			
	T with flange connection			
 Sealing screw opposi 				
	₃ -20 UNF to IEC 61518		3	
 Mounting thread M1 (only for replacement 	2 to DIN 19213		1	
	cess flanges, location of			
vent valve at top of pr sional drawing)	ocess flanges (see dimen-			
	₃ -20 UNF to IEC 61518		7	
- Mounting thread M1	2 to DIN 19213		5	
(only for replacement	nt requirement)			
Non-wetted parts mate process flange screws				
			_	
Stainless steel Stainless steel	Die-cast aluminum Stainless steel precision casting ⁶⁾		3	
Version				
 Standard versions 				1
 International version, 	English label inscriptions,			2
documentation in 5 la				
(no order code select	able)			
Explosion protection				
• None				Α
With ATEX, Type of pr				
- "Intrinsic safety (Ex i				В
- "Explosion-proof (Ex	,			D
- "Intrinsic safety and	flameproof enclosure"			P
(Ex ia + Ex d)"6)				
- "Ex nA/ic (Zone 2)"9				E
- "Intrinsic safety, expl dust explosion prote	osion-proof enclosure and ection (Ex ia+ Ex d +			R
• FM + CSA (is + ep) +				s
 With FM + CSA, Type 				
 "Intrinsic safety and (is + xp)" ⁷⁾, max PN 	•			NC
(- -/) ····				
Electrical connection/				Α
Electrical connection/ • Screwed gland Pg 13	.0			
Electrical connection/ • Screwed gland Pg 13 • Screwed gland M20x				В
 Screwed gland Pg 13 	1.5			C
 Screwed gland Pg 13 Screwed gland M20x Screwed gland ½-14 	1.5 NPT			
Screwed gland Pg 13Screwed gland M20x	1.5 NPT nousing) incl. mating			С

Selection and Ordering data	Order No.
SITRANS P DS III with HART pressure transmitters for differential pressure and flow, PN 420 (MAWP 6092 psi)	7 M F 4 5 3 3 -
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" 	7

Available ex stock

required)

Power supply units see Chap. 7 "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 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
- 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)
- 6) Not in conjunction with Electrical connection "Screwed gland Pg 13.5" and "Han7D plud".
- 7) Without cable gland, with blanking plug
- 8) With enclosed cable gland Ex ia and blanking plug
- 9) Configurations with HAN and M12 connectors are only available in Ex ic.
- ¹⁰⁾Not in conjunction with types of protection "Explosion-proof" and "Ex nA", "Intrinsic safety" and "Explosion-proof".
- ¹¹⁾Permissible only for crimp-contact of conductor cross-section 1 mm²
- ¹²⁾M12 delivered without cable socket
- ¹³⁾Not available with protection type "Ex d" (options D, P, N and R)
- ¹⁴⁾Not in conjunction with types of protection "Explosion-proof" and "Ex nA", "Intrinsic safety" and "Explosion-proof".

	ering data	Or	de	r N	10.	
Pressure transmitte and flow, PN 420 (M	ers for differential pressure MAWP 6092 psi)					
SITRANS P DS III w	vith PROFIBUS PA (PA)	7 1	ΛF	4 5	5 3	4 -
	vith FOUNDATION Fieldbus	71	ΛF	4 5	5 3	5 -
(FF)						Ĭ
		1	ı			
Nominal measuring	g range					
250 mbar	(100.4 inH ₂ O)					
600 mbar	(240.9 inH ₂ O)		7			
1600 mbar 5 bar	(642.4 inH ₂ O)	I				
o bar 30 bar	(2008 inH ₂ O) (435 psi)	ì				
Wetted parts mater		- '				
(stainless steel proc						
Seal diaphragm	Parts of measuring cell					
Stainless steel	Stainless steel		Α			
Hastelloy	Stainless steel		В			
Gold 1)	Gold		L			
Ausführung als Men	nbrandruckmittler ^{2) 3) 4) 5)}		Υ			
Process connectio	==					
	NPT with flange connection					
	oosite process connection					
-	⁷ / ₁₆ -20 UNF to IEC 61518 ▶			3		
	M12 to DIN 19213 ment requirement)			1		
 Venting on side of 	process flanges, location of					
vent valve at top of	f process flanges (see dimen-					
sional drawing).	7/ 00					
	$^{7}/_{16}$ -20 UNF to IEC 61518			7		
	M12 to DIN 19213 ment requirement)			5		
Non-wetted parts n	· · · · · · · · · · · · · · · · · · ·	-				
•	ws Electronics housing					
Stainless steel	Die-cast aluminum			2	2	
Stainless steel	Stainless steel precision			3	3	
	casting					
 Standard versions 						1
Standard versionsInternational versions	on, English label inscriptions, ▶ 5 languages on CD					1 2
Standard versionsInternational versions	on, English label inscriptions, ▶ 5 languages on CD					
 Standard versions International version documentation in the following of the following control of the following control	on, English label inscriptions, 5 languages on CD lectable)	-				2
 Standard versions International version documentation in the following of the following codes of the following	on, English label inscriptions, 5 languages on CD lectable) on	-				
 Standard versions International versic documentation in (no order code sel Explosion protection None With ATEX, Type or 	on, English label inscriptions, Descriptions, Descriptions on CD lectable) on f protection:	_				2 A
 Standard versions International verside documentation in the following of the foll	on, English label inscriptions, Danguages on CD lectable) on f protection: Ex ia)"	_				2 A B
 Standard versions International versid documentation in the following of the follo	on, English label inscriptions, Delanguages on CD lectable) on f protection: Ex ia)" (Ex d)*6)	-				2 A
Standard versions International versic documentation in a (no order code sel Explosion protection None With ATEX, Type o - "Intrinsic safety (- "Explosion-proof - "Intrinsic safety a (Ex ia + Ex d)" Versions Trinsic safety a (Ex ia + Ex d)"	on, English label inscriptions, 5 languages on CD lectable) on f protection: Ex ia)" (Ex d)"6) and flameproof enclosure"	_				A B D
Standard versions International versic documentation in some (no order code selection) None With ATEX, Type oo - "Intrinsic safety (or "Explosion-proof - "Intrinsic safety are (Ex ia + Ex d)") "Ex nA/ic (Zone 2)	on, English label inscriptions, 5 languages on CD lectable) on f protection: Ex ia)" (Ex d)*6 and flameproof enclosure" 2)*8					A B D
 Standard versions International version documentation in the following state of the foll	on, English label inscriptions, 5 languages on CD lectable) on f protection: Ex ia)" (Ex d)"6) and flameproof enclosure" 2)"8)					A B D P
 Standard versions International versic documentation in the following of the follo	on, English label inscriptions, 5 languages on CD lectable) on f protection: Ex ia)" (Ex d)"6) and flameproof enclosure" 2)"8)					A B D P
Standard versions International versic documentation in a (no order code sel Explosion protection None With ATEX, Type on a "Intrinsic safety ("Explosion-proof" "Intrinsic safety a (Ex ia + Ex d)"") Ex nA/ic (Zone 20 a "Intrinsic safety, a dust explosion proof to a "Intrinsic safety, a dust explosion proof" "Intrinsic safety, a dust explosion proof to a "Intrinsic safety, a dust explosion proof" "Intrinsic safety, a "Intrinsic saf	on, English label inscriptions, 5 languages on CD lectable) on f protection: Ex ia)" (Ex d)"6) and flameproof enclosure" 2)" 8) explosion-proof enclosure and rotection (Ex ia + Ex d + not for DS III FF)					A B D P E R
International versic documentation in a (no order code sel Explosion protection) None With ATEX, Type or "Intrinsic safety ("Explosion-proof" "Intrinsic safety a (Ex ia + Ex d)"") "Ex nA/ic (Zone 20") "Intrinsic safety, a dust explosion produst explosion proof 10/2D)" FM + CSA (is + explosion)	on, English label inscriptions, 5 languages on CD lectable) on If protection: Ex ia)" (Ex d)"6) and flameproof enclosure" 2)"8) explosion-proof enclosure and rotection (Ex ia + Ex d + not for DS III FF) b) + Ex ia + Ex d (ATEX)					A B D P
Standard versions International versic documentation in a (no order code sel Explosion protection None With ATEX, Type on a "Intrinsic safety ("Explosion-proof" "Intrinsic safety a (Ex ia + Ex d)"") "Ex nA/ic (Zone 20") "Intrinsic safety, a dust explosion produst explosion product explosion produc	on, English label inscriptions, 5 languages on CD lectable) on f protection: Ex ia)" (Ex d)"6) and flameproof enclosure" 2)" 8) explosion-proof enclosure and rotection (Ex ia + Ex d + not for DS III FF) b) + Ex ia + Ex d (ATEX) //pe of protection:					A B D P E R
Standard versions International versic documentation in a (no order code sel Explosion protection None With ATEX, Type on a "Intrinsic safety ("Explosion-proof" "Intrinsic safety a (Ex ia + Ex d)"") "Ex nA/ic (Zone 20") "Intrinsic safety, a dust explosion produst explosion product explosion produc	on, English label inscriptions, 5 languages on CD lectable) on If protection: Ex ia)" (Ex d)"6) and flameproof enclosure" 2)"8) explosion-proof enclosure and rotection (Ex ia + Ex d + not for DS III FF) b) + Ex ia + Ex d (ATEX)					A B D P E R
Standard versions International version documentation in a (no order code sel explosion protection) None With ATEX, Type or a "Intrinsic safety ("Explosion-proof" intrinsic safety a (Ex ia + Ex d)"") "Ex nA/ic (Zone 20" intrinsic safety, a dust explosion proof to 20" intrinsic safety, and the explosion proof 10/2D)" ("FM + CSA (is + explosion proof 10/2D)") ("Tex nA/ic (is + xp)") ("Tex	on, English label inscriptions, 5 languages on CD lectable) on If protection: Ex ia)" (Ex d)"6) and flameproof enclosure" 2)"8) explosion-proof enclosure and rotection (Ex ia + Ex d + not for DS III FF) b) + Ex ia + Ex d (ATEX) ype of protection: and explosion-proof PN 360 on/cable entry					A B D P E R
Standard versions International versic documentation in a (no order code sel Explosion protection None With ATEX, Type on "Intrinsic safety (no "Explosion-proof" intrinsic safety and (Ex ia + Ex d)"") "Ex nA/ic (Zone 20" intrinsic safety, and the explosion proof 10/2D)"") FM + CSA (is + explosion proof 10/2D)"") FM + CSA (is + explosion proof 10/2D)"") Intrinsic safety, and (is + xp)" intrinsic safety and (is + xp)" in max Electrical connections Screwed gland M2	on, English label inscriptions, 5 languages on CD lectable) on f protection: Ex ia)" (Ex d)"6) and flameproof enclosure" 22)" 8) explosion-proof enclosure and rotection (Ex ia + Ex d + not for DS III FF) b) + Ex ia + Ex d (ATEX) //pe of protection: and explosion-proof PN 360 on/cable entry 20 x 1.5					A B D P E R S NC
Standard versions International versic documentation in second code selection of the second code selec	on, English label inscriptions, 5 languages on CD lectable) on f protection: Ex ia)" (Ex d)"6) and flameproof enclosure" 22)" 8) explosion-proof enclosure and rotection (Ex ia + Ex d + not for DS III FF) b) + Ex ia + Ex d (ATEX) //pe of protection: and explosion-proof PN 360 on/cable entry 20 x 1.5					A B D P E R S

Pressure transmitters for differential pressure and flow, PN 420 (MAWP 6092 psi)	
SITRANS P DS III with PROFIBUS PA (PA)	7 M F 4 5 3 4 -
SITRANS P DS III with FOUNDATION Fieldbus (FF)	7 M F 4 5 3 5 -
	1===
Display	
Without (display hidden)	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

Order No.

Available ex stock

Included in delivery of the device:

Brief instructions (Leporello)

Selection and Ordering data

- 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 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
- 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 tranmitter 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		
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 Stainless steel	A01 A02	✓	1	1
O-rings for process flanges (instead of FPM (Viton))			,	
PTFE (Teflon)FEP (with silicone core, approved for food)FFPM (Kalrez, compound 4079)	A20 A21 A22	√ ✓	∀ ∀	∀ ∀
• NBR (Buna N) Plug	A23	✓	✓	✓
Han 7D (metal, gray)Han 8U (instead of Han 7D)	A30 A31	V		
AngledHan 8D (metal, gray)	A32 A33	1		
Sealing screws (2 unit(s) 1/4-18 NPT, with valve in mat. of process flanges	A40	✓	✓	1
Cable sockets for M12 conn. (stainless steel)	A50	✓	✓	✓
Rating plate inscription (instead of German) • English	B11	1	1	1
• French	B12	✓	✓	✓
• Spanish	B13	1	√	√
• Italian	B14	v	v	∀
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	1	1	✓
Inspection certificate Acc. to EN 10204-3.1	C12	1	✓	✓
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	✓	✓	1
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" (troopmitter 7ME4	E01	✓	✓	1
(transmitter 7MF4B Ex ia)") Export approval Korea	E11	1	1	1
Explosion-proof "Intrinsic safety" (Ex ia) to	E25	✓	1	✓
INMETRO (Brazil)				
(only for transmitter 7MF4B) "Flameproof" explosion protection accord-	E26	1	1	1
ing to INMETRO (Brazil) (only for transmitter 7MF4D)				
(orny for transmitted Fivil 4*)				

Selection and Ordering data	Order	code		
Further designs		HART	PA	FF
Add "- \mathbf{Z} " to Order No. and specify Order Code.				
Explosion-proof "Intrinsic safety" (Ex ia + Ex d) to INMETRO (Brazil)	E28	✓	✓	
(only for transmitter 7MF4P)				
Ex Approval IEC Ex (Ex ia) (only for transmitter 7MF4	E45	✓	✓	1
Ex Approval IEC Ex (Ex id) (only for transmitter 7MF4	E46	✓	✓	✓
Explosion-proof "Intrinsic safety" to NEPSI (China)	E55	✓	✓	✓
(only for transmitter 7MF4B)				
Ex prot. "Explosion-proof" to NEPSI (China) (only for transmitter 7MF4D)	E56	✓	✓	✓
Explosion-proof "Zone 2" to NEPSI (China) (only for transmitter 7MF4E)	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	✓	✓	✓

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	Y02	1		
(max. 5 characters): Y02: up to mbar, bar, kPa, MPa, psi	102	·		
Stainless steel tag plate	Y15	1	1	1
(measuring point description)				
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*), inH ₂ O*), ftH ₂ O*), mmHG, inHG, psi, Pa, kPa, MPa, g/cm², kg/cm², Torr, ATM or % *) ref. temperature 20 °C				
Setting of pressure indication in	Y22 +	✓		
non-pressure units ¹⁾	Y01 or Y02			
Specify in plain text: Y22: up to I/min, m³/h, m, USgpm, (specification of measuring range in pressure units "Y01" or "Y02" is essential, unit with max. 5 characters)	102			
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.