Selection and Orderi	ng data		Order	No.	
Pressure transmitter for gauge pressure,			7 M F 4 0 3 3 -		
SITRANS P DS III HA	KI				
Measuring cell filling	Measuring cell clean- ing				
Silicone oil	normal		1		
Inert liquid ¹⁾	Grease-free		3		
Measuring span					
0.01 1 bar g	(0.15 14.5 psi g)	\blacktriangleright	В		
0.04 4 bar g	(0.58 58 psi g)	•	С		
0.16 16 bar g	(2.32 232 psi g)		D E		
0.63 63 bar g 1.6 160 bar g	(9.14 914 psi g) (23.2 2320 psi g)		F		
4.0 400 bar g	(58.0 5802 psi g)		G		
7.0 700 bar g	(102.0 10153 psi g)	•	J		
Wetted parts materia	, , ,				
Seal diaphragm	Process connection				
Stainless steel	Stainless steel		Α		
Hastelloy	Stainless steel		В		
Hastelloy	Hastelloy		C		
Version as diaphragm	seai=/5/		Y		
Process connectionConnection shank G	16D to EN 927 1	•	0		
 Female thread ½-14 			1		
 Stainless steel oval f 					
	₁₆ -20 UNF to EN 61518		2		
- Mounting thread M			3		
- Mounting thread M			4		
 Male thread M20 x 1 Male thread ½ -14 N 			5		
			Ů		
Non-wetted parts ma Housing made of die 		•		0	
	eel precision casting ⁴⁾			3	
Version	oor procioion oddling			Ĭ	
Standard versions				1	
 International version 	, English label inscriptions,	>		2	2
documentation in 5 l	anguages on CD				
Explosion protection	1	_			
None None	.voto otion.				Α
 With ATEX, Type of p "Intrinsic safety (EE) 					B
- "Intrinsic safety (EE - "Explosion-proof (E					B D
	d flameproof enclosure"				P
(EEx ia + EEx d)"6)	'				
- "Ex nA/nL (Zone 2)					E
	olosion-proof enclosure and	d k			R
dust explosion pro Zone 1D/2D)** ⁶⁾	tection (EEx ia + EEx d +				
• With FM + CSA, Typ	e of protection:				
	Explosion Proof (is + xp)"5))			NC
Electrical connection					
 Screwed gland Pg 1 	₹.				Α
 Screwed gland M20 		•			В
• Screwed gland ½-14					C
 Han 7D plug (plastic connector⁷⁾ 	housing) incl. mating				D
 M12 connectors (me 	etal) ⁸⁾				F
- WITZ CONTINUEDIOIS (ITIE	iai)				

Selection and Ordering		Orde	r No).		
Pressure transmitter f						
SITRANS P DS III PA (I	7 M F	7 M F 4 0 3 4 -				
SITRANS P DS III FF (I	7 M F 4 0 3 5 -					
				-		
Measuring cell filling	Measuring cell clean- ing					
Silicone oil Inert liquid ¹⁾	normal Grease-free	1				
Nominal measuring ra	nge					
1 bar g	(14.5 psi g)	В				
4 bar g	(58 psi g)	С				
16 bar g	(232 psi g)	D				
63 bar g	(914 psi g)	E				
160 bar g	(2320 psi g)	F				
400 bar g	(5802 psi g)	G				
700 bar g	(10153 psi g)	J				
Wetted parts materials						
Seal diaphragm	Process connection					
Stainless steel	Stainless steel	A				
Hastelloy	Stainless steel	В				
Hastelloy Version as diaphragm s	Hastelloy	C Y				
Process connection	- Cui	- '				
• Connection shank G1/3	D to EN 027 1		0			
 Connection shank G/2 Female thread ½-14 N 			1			
 Stainless steel oval fla 			٠.			
 Stairliess steel oval lia Mounting thread ⁷/₁₆ 	20 LINE to EN 61518		2			
 Mounting thread 716 Mounting thread M1 			3			
- Mounting thread M1			4			
Male thread M20 x 1.5			5			
 Male thread ½ -14 NP 			6			
Non-wetted parts mate	rials	-				
 Housing made of die- 			0			
 Housing stainless stee 			3			
Version	1 0	-				
 Standard versions 				1		
 International version. 	English label inscriptions,			2		
documentation in 5 la				Ī		
Explosion protection		_				
None					A	
None						
With ATEX, Type of prot	ection:					
With ATEX, Type of prot 'Intrinsic safety (EEx ia)					В	
With ATEX, Type of prot 'Intrinsic safety (EEx ia) 'Explosion-proof (EExd)	n4)				D	
With ATEX, Type of prot 'Intrinsic safety (EEx ia) 'Explosion-proof (EExd) 'Intrinsic safety and flan (EEx ia + EEx d)" ⁵⁾	n4)				D P	
With ATEX, Type of prot 'Intrinsic safety (EEx ia) 'Explosion-proof (EExd) 'Intrinsic safety and flan	n4)				D P	
With ATEX, Type of prot 'Intrinsic safety (EEx ia) 'Explosion-proof (EExd) 'Intrinsic safety and flan (EEx ia + EEx d)"5) 'Ex nA/nL (Zone 2)" 'Intrinsic safety, explosion	" "4) neproof enclosure" on-proof enclosure and on (EEx ia + EExd + Zone				D P	
With ATEX, Type of prot 'Intrinsic safety (EEx ia) 'Explosion-proof (EExd) 'Intrinsic safety and flan (EEx ia + EEx d)*5) 'Ex nA/nL (Zone 2)" 'Intrinsic safety, explosidust explosion protectic 1D/2D)*6) (not for DS III With FM + CSA, Type o	neproof enclosure" on-proof enclosure and on (EEx ia + EExd + Zone FF) if protection:				D P E R	
With ATEX, Type of prot 'Intrinsic safety (EEx ia) 'Explosion-proof (EExd) 'Intrinsic safety and flan (EEx ia + EEx d)" ⁵⁾ 'Ex nA/nL (Zone 2)" 'Intrinsic safety, explosidust explosion protectic 1D/2D)" ⁶⁾ (not for DS III	neproof enclosure" on-proof enclosure and on (EEx ia + EExd + Zone FF) if protection:				D P	
With ATEX, Type of prot "Intrinsic safety (EEx ia) "Explosion-proof (EExd) "Intrinsic safety and flan (EEx ia + EEx d)"5) "Ex nA/nL (Zone 2)" "Intrinsic safety, explosion dust explosion protectic 1D/2D)"6) (not for DS III With FM + CSA, Type of "Intrinsic Safe und Explo Electrical connection of	neproof enclosure" on-proof enclosure and on (EEx ia + EExd + Zone FF) frortection: osion Proof (is + xp)"5) cable entry				D P E R	
With ATEX, Type of prot 'Intrinsic safety (EEx ia) 'Explosion-proof (EExd) 'Intrinsic safety and flan (EEx ia + EEx d)"5) 'Ex nA/nL (Zone 2)" 'Intrinsic safety, explosin dust explosion protectic 1D/2D)"6) (not for DS III With FM + CSA, Type of 'Intrinsic Safe und Explosion Electrical connection in Screwed gland M20 x	neproof enclosure and on (EEx ia + EExd + Zone FF) if protection: cosion Proof (is + xp)*5) Cable entry 1.5				D P E R N C	
With ATEX, Type of prot "Intrinsic safety (EEx ia) "Explosion-proof (EExd) "Intrinsic safety and flan (EEx ia + EEx d)"5) "Ex nA/nL (Zone 2)" "Intrinsic safety, explosion dust explosion protectic 1D/2D)"6) (not for DS III With FM + CSA, Type of "Intrinsic Safe und Explo Electrical connection of	neproof enclosure" on-proof enclosure and on (EEx ia + EExd + Zone FF) f protection: osion Proof (is + xp)" ⁵⁾ cable entry 1.5 NPT				D P E R	

Selection and Ordering data	Order No.			
Pressure transmitter for gauge pressure				
SITRANS P DS III PA (PROFIBUS PA)	7 M F 4 0 3 4 -			
SITRANS P DS III FF (FOUNDATION Fieldbus)	7 M F 4 0 3 5 -			
Display				
Without indicator	0			
 Without visible digital indicator(digital indicator concealed, setting: bar) 	1			
With visible digital indicator	6			

Included in delivery of the device: Brief instructions (Leporello) CD-ROM with detailed documentation

1) For oxygen application, add Order code E10.

 with customer-specific digital indicator (setting as specified, Order Code "Y21" required)

- 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) Without cable gland, with blanking plug.
- 5) With enclosed cable gland EEx ia and blanking plug.
- 6) 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
Stainless steel	A02	✓	✓	✓
plug		_		
Han 7D (metal, gray) Han 9LL (instead of Han 7D)	A30 A31	1		
Han 8U (instead of Han 7D)Angled	A32	*		
• Han 8D (metal, gray)	A33	✓		
Cable sockets for M12 connectors (metal)	A50	✓	✓	✓
Rating plate inscription				
(instead of German) • English	B11	1	1	1
• French	B12	V	1	1
Spanish	B13	✓	✓	✓
• Italian	B14	✓.	✓	✓
English rating plate	B21	✓	✓	1
Pressure units in inH ₂ 0 and/or psi	C11	1	1	-/
Quality inspection certificate (factory calibration) toIEC 60770-2 ¹⁾	C11	•	•	•
Inspection certificate ²⁾ Acc. to EN 10204-3.1	C12	✓	✓	✓
Factory certificate	C14	✓	✓	✓
Acc. to EN 10204-2.2	Can			
"Functional safety (SIL2)" certificate PROFIsafe certificate and protocol	C20 C21	•	./	
"Functional safety (SIL2/3)" certificate	C21	1	•	
Setting of upper limit of output signal to	D05	-/		
22.0 mA	D03	·		
Manufacturer's declaration acc. to NACE	D07	✓	✓	✓
Degree of protection IP68 (only for M20x1.5 and ½-14 NPT)	D12	✓	✓	✓
Supplied with oval flange	D37	✓	✓	✓
(1 item), PTFE packing and screws in thread of oval flange				
Use in or on zone 1D/2D	E01	✓	1	✓
(only together with type of protection "Intrinsic safety (EEx ia)")				
Oxygen application	E10	✓	✓	1
(In the case of oxygen measurement and inert liquid max. 120 bar G (1740 psi G) at 60°C (140 °F))				
Explosion-proof "Intrinsic safety" to	E25	1	1	1
INMETRO (Brazil) (only for transmitter 7MF4B)				
Ex Approval IEC Ex (EEx ia)	E45	✓	✓	1
(only for transmitter 7MF4B) Ex Approval IEC Ex (EEx id)	E46	1	✓	✓
(only for transmitter 7MF4D) Explosion-proof "Intrinsic safety" to NEPSI	E55	1	1	1
(China) (only for transmitter 7MF4				
Explosion protection "Explosion-proof" to NEPSI (China)	E56	✓	✓	✓
(only for transmitter 7MF4D)				
Ex protection "Zone 2" to NEPSI (China) (only for transmitter 7MF4	E57	✓	✓	✓
Two coats of lacquer on casing and cover (PU on epoxy)	G10	1	✓	✓
(1 O OII epoxy)				

Selection and Ordering data	Order code					
Additional data Please add "-Z" to Order No. and specify Order code(s) and plain text.	0.00.	HART	PA	FF		
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)	Y17	1				
Max. 8 characters, specify in plain text: Y17:						
Setting of pressure indication in pressure	Y21	✓	✓	✓		
units Specify in plain text (standard setting: bar): Y21: mbar, bar, kPa, MPa, psi, Note: The following pressure units can be selected: bar, mbar, mm H ₂ O [*]), inH ₂ O [*]), ftH ₂ O [*]), mmHG, inHG, psi, Pa, kPa, MPa, g/cm ² , kg/cm ² , Torr, ATM or % *) ref. temperature 20 °C						
Setting of pressure indication in non-pressure units ³) Specify in plain text: Y22: up to //min, m³/h, m, USgpm, (specification of measuring range in pressure units "Y01" is essential, unit with max. 5 characters)	Y22 + Y01	✓				
Preset bus address possible between 1 and 126 Specify in plain text: Y25:	Y25		✓			

Factory mounting of valve manifolds, see accessories.

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

✓ = available

ordering example

Item line: 7MF4033-1EA00-1AA7-Z

B line: A01 + Y01 + Y21

C line: Y01: 10 ... 20 bar (145 ... 290 psi)

C line: Y21: bar (psi)

- When the manufacture's certificate (calibration certificate) has to be ordered for transmitters with diaphragm seals according to IEC 60770-2, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the total combination is certified here.
- 2) If the acceptance test certificate 3.1.is ordered for the transmitter with mounted diaphragm seals this certificate must also be ordered with the respective remote seals.
- 3) Preset values can only be changed over SIMATIC PDM.