Selection and Ordering data  Pressure transmitters for absolute pressure aus series pressure, SITRANS P DS III HART		Order No. 7 M F 4 2 3 3 -		Selection and Ordering data	Order No. 7) 7MF 4 2 3 3 -		
				Pressure transmitters for absolute pressure aus series pressure, SITRANS P DS III HART			
					- DO III HAKI		
Measuring cell filling Silicone oil Inert liquid 1)	Measuring cell clean- ing normal Grease-free	1 3		Display     Without indicator     Without visible digital indicator(concealed, setting: mA)	digital indicator >	0 1	
Measuring span 8.3 250 mbar a 43 1300 mbar a 0.16 5 bar a 1 30 bar a	(0.12 3.63 psi a) (0.62 18.9 psi a) (2.32 72.5 psi a) (14.5 435 psi a)	D F G H		With visible digital indicator     with customer-specific digital indicator as specified, Order Code "Y21" (quired)  Power supply units see Chap. 8 "S	or "Y22" re- Supplementary Co	omponents".	
Wetted parts materials Seal diaphragm	Process connection			<ul><li>Included in delivery of the device:</li><li>Brief instructions (Leporello)</li><li>CD-ROM with detailed documer</li></ul>			
Stainless steel Hastelloy Hastelloy Version for diaphragms	Stainless steel F Stainless steel F Hastelloy F seal <sup>2/3)4)</sup>	) <b>B</b>		<ol> <li>For oxygen application, add Orde</li> <li>Version 7MF4233-1DY only up to</li> <li>When the manufacture's certificat</li> </ol>	er code E10. o max. span 200 mb e (calibration certifi	icate) has to be	
Process connection  • Connection shank G½B to EN 837-1  • Female thread ½-14 NPT  • Stainless steel oval flange  - Mounting thread <sup>7</sup> / <sub>16</sub> -20 UNF to EN 61518  - Mounting thread M10 to DIN 19213  - Mounting thread M12 to DIN 19213  • Male thread M20 x 1.5  • Male thread ½ -14 NPT		0 1 2 3 4 5 6		ordered for transmitters with diapl is recommended only to order this phragm seals. The measuring acchere. If the acceptance test certific mounted diaphragm seals this ce respective remote seals.  4) If the acceptance test certificate mounted diaphragm seals this ce respective remote seals.  5) Not in conjunction with Electrical ("Han7D plug".	s certificate exclusicuracy of the total ocate 3.1.is ordered fortificate must also be 3.1.is ordered for the trificate must also be serviced for the trificate must also connection "Screwer and the trificate must also connection" Screwer and the trificate must also connection "Screwer and the trificate must also connection" Screwer and the trificate must also connection "Screwer and the trificate must also connection" of the trificate must also connection "Screwer and trificate must also connection" of the trificate must also connection the trificate must also connectio	clusively with the dia- al combination is certified red for the transmitter with so be ordered with the or the transmitter with lso be ordered with the	
Non-wetted parts mate  • Housing made of die-  • Housing stainless stee	cast aluminium		0	7) With enclosed cable gland EEx ia 8) Not in conjunction with types of p "Intrinsic safety" and "Explosion-p	a and blanking plug rotection "Explosior		
Version  • Standard versions  • International version, English label inscriptions, documentation in 5 languages on CD		_	1 2	<ul> <li>9) M12 delivered without cable sock</li> <li>F) Subject to export regulations AL:</li> </ul>	ket		
dust explosion prote Zone 1D/2D)" <sup>7)</sup> • With FM + CSA, Type	cia)" (ix d)"6) flameproof enclosure"  osion-proof enclosure and ection (EEx ia+ EEx d +		A B D P E R				
Electrical connection /     Screwed gland Pg 13.     Screwed gland M20x <sup>-</sup> Screwed gland ½-14 l     Han 7D plug (plastic h connector <sup>8)</sup> M12 connectors (metal	7 cable entry .5 <sup>8)</sup> 1.5 NPT nousing) incl. mating		A B C D				

Selection and Ordering		Order No.		Selection and Ordering data		
For absolute pressure (from the gauge pressure series)					For absolute pressure (from the gauge pressure series)	
•		F)	7 M F 4 2 3 4 -		SITRANS P DS III PA (PROFIBUS PA)	
SITRANS P DS III FF (I	FOUNDATION Fieldbus)	F)	7MF4235-		SITRANS P DS III FF (FOUNDATION Fieldbus)	
•	,				, , , , , , , , , , , , , , , , , , , ,	
Measuring cell filling	Measuring cell clean-				Display	
	ing				Without indicator	
Silicone oil	normal		1		Without visible digital indicator	
Inert liquid <sup>1)</sup>	Grease-free		3		(digital indicator concealed, setting: mA)	
Nominal measuring ra	nge				With visible digital indicator     with sustamer appoint digital indicator	
250 mbar a	(3.63 psi a)		D		<ul> <li>with customer-specific digital indicator (setting as specified, Order Code "Y21" or "Y22"</li> </ul>	
1300 mbar a	(18.9 psi a)		F		required)	
5 bar a	(72.5 psi a)		G		Included in delivery of the device:	
30 bar a	(435 psi a)		Н		Brief instructions (Leporello)	
Wetted parts materials Seal diaphragm Process connection					CD-ROM with detailed documentation	
		\			<ol> <li>For oxygen application, add Order code E10.</li> </ol>	
Stainless steel	Stainless steel	F)	A		<sup>2)</sup> Version 7MF4233-1DY only up to max. span 200 r	
Hastelloy	Stainless steel	F) F)	B C		3) When the manufacture's certificate (calibration cert	
Version as diaphragm s	Hastelloy seal <sup>2) 3) 4)</sup>	<i>-</i> )	Y		ordered for transmitters with diaphragm seals acco is recommended only to order this certificate exclu- phragm seals. The measuring accuracy of the total	
Process connection	D +- EN 007 4				here.	
• Connection shank G½B to EN 837-1			0		4) If the acceptance test certificate 3.1.is ordered for t	
<ul> <li>Female thread ½-14 N</li> <li>Stainless steel oval fla</li> </ul>			1		mounted diaphragm seals this certificate must also respective remote seals.	
- Mounting thread <sup>7</sup> / <sub>16</sub>			2		5) Without cable gland, with blanking plug.	
			3		Without cable grand, with blanking plug.     With enclosed cable gland EEx ia and blanking plu	
<ul><li>Mounting thread M10 to DIN 19213</li><li>Mounting thread M12 to DIN 19213</li></ul>			4		7) M12 delivered without cable socket	
Male thread M20 x 1.5			5		F) Subject to export regulations AL: 91999, ECCN: N.	
Male thread ½ -14 NP			6		Ty Subject to expert regulations (i.e. dieses, 2001). 14.	
Non-wetted parts mate		_				
Housing made of die-			0			
Housing stainless stee			3			
Version		_				
Standard versions				1		
<ul> <li>Standard versions</li> <li>International version, English label inscriptions,</li> </ul>				2		
documentation in 5 la	nguages on CD					
Explosion protection						
• None				Α		
• With ATEX, Type of pro	otection:					
- "Intrinsic safety (EEx	( ia)"			В		
- "Explosion-proof (EE				D		
- "Intrinsic safety and	flameproof enclosure"			P		
(EEx ia + EEx d)" <sup>(b)</sup>				_		
- "Ex nA/nL"	asian proof analogura and			E		
	osion-proof enclosure and ection (EEx ia + EEx d + for DS III FF)			R		
• With FM + CSA, Type						
- "Intrinsic Safe und E	xplosion Proof (is + xp)"5)			NC		
Electrical connection	/ cable entry					
• Screwed gland M20 x	•			В		
• Screwed gland ½-14 NPT				C		
• M12 connectors (metal) 7)				F		

F) 7MF4234-ON Fieldbus) F) 7 M F 4 2 3 5 -0 ng: mA)

Order No.

- code E10. max. span 200 mbar a (2.9 psi a).
- (calibration certificate) has to be ragm seals according to IEC 60770-2, it certificate exclusively with the dia-uracy of the total combination is certified
- 1.is ordered for the transmitter with ificate must also be ordered with the
- plug. and blanking plug.
- 1999, ECCN: N.

Selection and Ordering data Order code			Selection and Ordering data Order code			
Further designs		HART	PA	FF	Further designs HART F	A 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, 1 angle) made of:					Explosion protection "Explosion-proof" to NEPSI (China)  (only for transmitter 7MF4)	/ /
• Steel	A01	✓	✓	✓	Explosion-proof "Zone 2" to NEPSI (China) E57	, ,
<ul> <li>Stainless steel</li> </ul>	A02	✓	✓	✓	(only for transmitter 7MF4E)	
<ul><li>plug</li><li>Han 7D (metal, gray)</li><li>Han 8U (instead of Han 7D)</li></ul>	A30 A31	<b>4</b>			Two coats of lacquer on casing and cover (PU on epoxy) G10 ✓	/ /
Angled	A32	1			Additional data	
Han 8D (metal, gray)	A33	✓			Please add "-Z" to Order No. and specify	
Cable sockets for M12 connectors (metal)	A50	✓	✓	✓	Order code(s) and plain text.	
Rating plate inscription					Measuring range to be set Y01 ✓	
(instead of German)					Specify in plain text (max. 5 characters): Y01: up to mbar, bar, kPa, MPa, psi	
• English	B11	<b>√</b>	<b>1</b>	<b>1</b>		, ,
<ul><li>French</li><li>Spanish</li></ul>	B12 B13	1	<b>√</b>	<b>√</b>	Stainless steel tag plate (measuring point Y15 description)	•
• Italian	B14	1	1	<b>*</b>	Max. 16 characters, specify in plain text:	
English rating plate	B21	1	1	1	Y15:	
Pressure units in inH <sub>2</sub> 0 and/or psi					measuring point text	/ /
Quality inspection certificate (factory calibration) to IEC 60770-2 <sup>1)</sup>	C11	✓	✓	✓	Max. 27 characters, specify in plain text: Y16:  Entry of HART address (TAG)  Y17	
Inspection certificate <sup>2)</sup> Acc. to EN 10204-3.1	C12	✓	✓	✓	Entry of HART address (TAG)  Max. 8 characters, specify in plain text:  Y17:	
Factory certificate Acc. to EN 10204-2.2	C14	✓	✓	✓	Setting of pressure indication in pressure v21 vnits	/ /
"Functional safety (SIL2)" certificate	C20	✓			Specify in plain text (standard setting: bar):	
PROFIsafe certificate and protocol	C21		✓		Y21: mbar, bar, kPa, MPa, psi, Note:	
"Functional safety (SIL2/3)" certificate	C23	✓			The following pressure units can be selected:	
Setting of upper limit of output signal to 22.0 mA	D05	✓			bar, mbar, mm H <sub>2</sub> O <sup>*)</sup> , inH <sub>2</sub> O <sup>*)</sup> , ftH <sub>2</sub> O <sup>*)</sup> , mmHG, inHG, psi, Pa, kPa, MPa, g/cm <sup>2</sup> , kg/cm <sup>2</sup> , Torr, ATM or %	
Manufacturer's declaration acc. to NACE	D07	✓	✓	✓	*) ref. temperature 20 °C	
<b>Degree of protection IP68</b> (only for M20 x 1.5 and ½-14 NPT)	D12	✓	✓	✓	Setting of pressure indication in non-pressure units <sup>3)</sup> Y22 + ✓ Y01	
Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange	D37	✓	✓	✓	Specify in plain text: Y22: up to I/min, m <sup>3</sup> /h, m, USgpm, (specification of measuring range in pressure units "Y01" is essential, unit with max.	
Use in or on zone 1D/2D	E01	✓	✓	✓	5 characters)	
(only together with type of protection "Intrinsic safety (EEx ia)")					Preset bus address possible between 1 and 126	/
Oxygen application (In the case of oxygen measurement and inert liquid max. 120 bar a (1740 psi a) at 60°C	E10	<b>✓</b>	✓	✓	Specify in plain text: Y25:	
(140 °F))					Factory mounting of valve manifolds, see accessories.	
Explosion-proof "Intrinsic safety" to INMETRO (Brazil)	E25	✓	✓	✓	Only "Y01", "Y21", "Y22", "Y25" and "D05" can be factory preset $\checkmark$ = available	
(only for transmitter 7MF4B)  Ex Approval IEC Ex (EEx ia)	E45	1	✓	✓	1) When the manufacture's certificate (calibration certificate) has to ordered for transmitters with diaphragm seals according to IEC 6	0770-2, i
(only for transmitter 7MF4B)  Ex Approval IEC Ex (EEx id)	E46	1	✓	✓	is recommended only to order this certificate exclusively with the phragm seals. The measuring accuracy of the <u>total</u> combination i here.	s certified
(only for transmitter 7MF4D)  Explosion-proof "Intrinsic safety" to NEPSI (China)	E55	✓	✓	✓	2) If the acceptance test certificate 3.1 is ordered for the transmitte mounted diaphragm seals this certificate must also be ordered v respective remote seals.	with with the
(China) (only for transmitter 7MF4B)					3) Preset values can only be changed over SIMATIC PDM.	