Selection and Ordering	g data		Ord	dei	· N	0.					
Pressure transmitter for gauge pressure, SITRANS P DS III with HART						7 M F 4 0 3 3 -					
SITRANS P DS III WITH	MAKI				٠	-					
Measuring cell filling	Measuring cell clean-										
Silicone oil	ing normal		1								
Inert liquid <sup>1)</sup>	grease-free to		3								
·	cleanliness level 2										
Measuring span (min.	max.)										
0.01 1 bar	(0.15 14.5 psi)		В								
0.04 4 bar	(0.58 58 psi)		C								
0.16 16 bar 0.63 63 bar	(2.32 232 psi) (9.14 914 psi)		D								
1.6 160 bar	(23.2 2320 psi)		Ē								
4.0 400 bar	(58.0 5802 psi)		G								
7.0 700 bar	(102.010153 psi)	▶	J								
Wetted parts materials		П									
Seal diaphragm	Process connection										
Stainless steel	Stainless steel	▶		Α							
Hastelloy	Stainless steel			В							
Hastelloy	Hastelloy			С							
Version as diaphragm s	eal <sup>2) 3) 4) 3)</sup>			Y							
Process connection	D. EN 007 /										
• Connection shank G1/2					0						
• Female thread ½-14 N	nge with process connec-				1						
tion female thread 1/4-1	8 NPT										
	-20 UNF to IEC 61518				2						
- Mounting thread M1					3						
<ul> <li>Mounting thread M1.</li> </ul>					4						
<ul> <li>Male thread M20 x 1.5</li> </ul>					5						
• Male thread ½ -14 NP		_			6						
Non-wetted parts mate					_						
<ul><li>Housing made of die-</li><li>Housing stainless stee</li></ul>					3						
Version	precision easting	_			ŭ						
Standard versions						1					
<ul> <li>Standard versions</li> <li>International version, English label inscriptions,</li> </ul>						2	-				
documentation in 5 languages on CD											
(no order code selecta	able)										
Explosion protection											
• None							Α				
With ATEX, Type of pro     "Intringia sofety (Ex.)							ь				
<ul><li>- "Intrinsic safety (Ex is</li><li>- "Explosion-proof (Ex</li></ul>	d)" <sup>7</sup> )						B D				
- "Intrinsic safety and							P				
(Ex ia + Ex d)" <sup>8)</sup>											
<ul> <li>"Ex nA/ic (Zone 2)"<sup>9)</sup></li> </ul>							E				
- "Intrinsic safety, explo	osion-proof enclosure and	▶					R				
dust explosion prote Zone 1D/2D)"8)	Clion (Ex la + Ex a +										
• FM + CSA (is + ep) +	Ex ia + Ex d (ATEX)						s				
<ul> <li>With FM + CSA, Type</li> </ul>											
- "Intrinsic Safe und E	xplosion Proof (is + xp)"7)						NC				
Electrical connection /											
<ul> <li>Screwed gland Pg 13.</li> </ul>							Α				
Screwed gland M20 x		▶					В				
• Screwed gland ½-14 i							C				
<ul> <li>Han 7D plug (plastic h connector<sup>10)</sup></li> </ul>	iousing) inci. mating						D				
M12 connectors (stain	less steel)10)11)						F				
	,										

Selection and Ordering data	Order No.					
Pressure transmitter for gauge pressure,	7MF4033-					
SITRANS P DS III with HART						
Display						
Without display		0				
Without visible display (display concealed, setting: mA)		1				
• With visible display, setting: mA		6				
• with customer-specific display (setting as specified, Order Code "Y21" or "Y22" required)		7				

Available ex stock

Power supply units see Chap. 7 "Supplementary Components".

Included in delivery of the device:

- Brief instructions (Leporello)
  CD-ROM with detailed documentation
- 1) For oxygen application, add Order code E10. 2) When the manufacture's certificate (calibration certificate) has to be which the manufactures 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
- $^{3)}$  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 7MF403.-..Y..-... and 7MF4900-1...-.B
- 5) The standard measuring cell filling of configurations with remote seals (Y)
- 6) Not in conjunction with Electrical connection "Screwed gland Pg 13.5" and "Han7D plug".
- 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.
- <sup>10)</sup>Not in conjunction with types of protection "Explosion-proof" and "Ex nA", "Intrinsic safety" and "Explosion-proof".
- <sup>11)</sup>M12 delivered without cable socket

Selection and Ordering	g data	Or	der N	۱о.			
Pressure transmitter f	or gauge pressure						
SITRANS P DS III with	7 N	7 M F 4 0 3 4 -					
SITRANS P DS III with	FOUNDATION Fieldbus	7 N	7 M F 4 0 3 5 -				
(FF)							
Measuring cell filling	Measuring cell clean-			i		1	
weasuring cen mining	ing						
Silicone oil	normal	1					
Inert liquid <sup>1)</sup>	grease-free to cleanliness level 2	3					
Nominal measuring ra	nge						
1 bar	(14.5 psi)	E					
4 bar	(58 psi)	C					
16 bar	(232 psi)						
63 bar	(914 psi)	E					
160 bar	(2320 psi)	F					
400 bar 700 bar	(5802 psi) (10153 psi)	9					
Wetted parts materials							
Seal diaphragm	Process connection						
Stainless steel	Stainless steel		Α				
Hastelloy	Stainless steel		В				
Hastelloy	Hastelloy		С				
Version as diaphragm s	eal <1, 3), 4), 5)		Y				
Process connection • Connection shank G1/2	B to EN 837-1		0				
<ul> <li>Female thread ½-14 N</li> </ul>	IPT		1				
Stainless steel oval fla	nge with process connec-						
tion female thread 1/4-	inge with process connec- 18 NPT <sup>6)</sup>						
<ul> <li>Mounting thread <sup>7</sup>/<sub>16</sub></li> </ul>	<sub>5</sub> -20 UNF to IEC 61518		2				
<ul> <li>Mounting thread M1</li> </ul>	0 to DIN 19213		3				
- Mounting thread M1	2 to DIN 19213		4				
<ul> <li>Male thread M20 x 1.5</li> </ul>			5				
<ul> <li>Male thread ½ -14 NP</li> </ul>			6				
Non-wetted parts mate							
<ul><li>Housing made of die-</li><li>Housing stainless stee</li></ul>				0 3			
Version							
<ul> <li>Standard versions</li> </ul>					1		
	English label inscriptions,				2		
documentation in 5 la (no order code selecti							
Explosion protection					A		
None					^		
With ATEX, Type of prot	ection:				В		
"Intrinsic safety (Ex ia)"	7)				D		
"Explosion-proof (Ex d)" "Intrinsic safety and flan					P		
(Ex ia + Ex d)" <sup>8)</sup>					E		
"Ex nA/ic (Zone 2)" <sup>9)</sup>	on proof analogues and				R		
"Intrinsic safety, explosion dust explosion protection Zone 1D/2D)" <sup>8)</sup> (not for	on (Ex ia + Ex d +						
FM + CSA (is + ep) + E	x ia + Ex d (ATEX)				S		
With FM + CSA, Type of				N O			
"Intrinsic Safe und Explo					NC		
<ul> <li>Electrical connection/o</li> <li>Screwed gland M20 x</li> </ul>	•				В		
<ul> <li>Screwed gland M20 x</li> <li>Screwed gland ½-14 l</li> </ul>					C		
- 0016W64 41aH4 /2-14	INI I				U		
<ul> <li>M12 connectors (stair</li> </ul>	nless steel) <sup>10)</sup> 11) 12)				F		

Selection and Ordering data	Order No.			
Pressure transmitter for gauge pressure				
SITRANS P DS III with PROFIBUS PA (PA)	7 M F 4 0 3 4 -			
SITRANS P DS III with FOUNDATION Fieldbus (FF)	7 M F 4 0 3 5 -			
Display				
Without display	0			
<ul> <li>Without visible display (display concealed, setting: bar)</li> </ul>	1			
With visible display	6			
• with customer-specific display (setting as spec-	7			

Available ex stock

Included in delivery of the device:

ified. Order Code "Y21" required)

- Brief instructions (Leporello)
- CD-ROM with detailed documentation
- 1) For oxygen application, add Order code E10.
- 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
- 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 7MF403.-.Y..-... and 7MF4900-1...-.B
- 5) The standard measuring cell filling of configurations with remote seals (Y) is silicone oil.
- 6) M10 fastening thread: Max. span 160 bar (2320 psi) 7/16-20 UNF and M12 fastening thread: Max. span 400 bar (5802 psi)
- 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.
- <sup>10)</sup>M12 delivered without cable socket
- <sup>11)</sup>Not available with protection type "Ex d" bestellbar (Options D, P, N and R)
- 12) Not with protection types "Explosion-proof" and protection type "Ex nA", "Intrinsic safe" and "Explosion proof".

Selection and Ordering data	Order	code			Selection and Ordering data	Order	code		
Further designs	Oradi	HART	PA	FF	Further designs	Oradi	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, 1 angle) made of:					Explosion-proof "Intrinsic safety" to NEPSI (China)	E55	✓	✓	✓
• Steel	A01	✓	✓	1	Explosion protection "Explosion-proof" to NEPSI (China)	E56	✓	✓	✓
Stainless steel	A02	✓	✓	✓	(only for transmitter 7MF4D)				
Plug  • Han 7D (metal, gray)	A30	1			Ex protection "Zone 2" to NEPSI (China)	E57	✓	✓	✓
• Han 8U (instead of Han 7D)	A31	1			(only for transmitter 7MF4				
• Angled	A32	1			"Intrinsic safety" and "Explosion-proof" explosion protection acc. to Kosha (Korea)	E70	✓	✓	✓
<ul> <li>Han 8D (metal, gray)</li> <li>Cable sockets for M12 connectors</li> </ul>	A33 A50	<b>√</b>	1	1	(only for transmitter				
(stainless steel)	7.00				7MF4[B, D]Z + E11)	G10	<b>√</b>		<b>√</b>
Rating plate inscription (instead of German)			1	1	Two coats of lacquer on casing and cover (PU on epoxy)	GIU	· ·	•	•
<ul><li>English</li><li>French</li></ul>	B11 B12	<b>✓</b>	<b>v</b>	<b>√</b>					
• Spanish	B13	1	1	1					
• Italian	B14	✓	✓	✓					
English rating plate	B21	✓	✓	✓					
Pressure units in inH <sub>2</sub> 0 and/or psi									
Quality inspection certificate (Five-step factory calibration) to IEC 60770-2 <sup>1)</sup>	C11	<b>4</b>	✓	1					
Inspection certificate <sup>2)</sup> Acc. to EN 10204-3.1	C12	✓	✓	✓					
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	✓							
<b>Device passport Russia</b> (For price request please contact the technical support	C99	✓	✓	✓					
www.siemens.com/automation/support-request)	Dos								
Setting of upper limit of output signal to 22.0 mA	D05	<b>√</b>							
Manufacturer's declaration acc. to NACE	D07	✓	✓	✓					
<b>Degree of protection IP65/IP68</b> (only for M20x1.5 and ½-14 NPT)	D12	✓	✓	✓					
Supplied with oval flange (1 item), PTFE packing and screws in thread of oval flange	D37	1	✓	✓					
Use in or on zone 1D/2D  (only together with type of protection "Intrinsic safety"  (transmitter 7MF4B. Ex ia)")	E01	<b>√</b>	✓	✓					
Oxygen application	E10	1	1	1					
(In the case of oxygen measurement and inert liquid max. 100 bar (1450 psi) at 60°C (140 °F))		·	•	·					
Export approval Korea	E11	✓	✓	✓					
Explosion-proof "Intrinsic safety" (Ex ia) to INMETRO (Brazil)	E25	✓	✓	✓					
(only for transmitter 7MF4B)									
"Flameproof" explosion protection according to INMETRO (Brazil) (only for transmitter 7MF4D)	E26	✓	✓	✓					
Explosion-proof "Intrinsic safety" (Ex ia +	E28	1	1						
Explosion-proof "intrinsic safety" (Ex la + Ex d) to INMETRO (Brazil)  (only for transmitter 7MF4P)	LZO	•	•						

(only for transmitter 7MF4...-......P..)

(only for transmitter 7MF4...-.....

Ex Approval IEC Ex (Ex ia)
(only for transmitter 7MF4...-....-.B..)
Ex Approval IEC Ex (Ex id)

E45

E46

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 (max. 5 characters): Y01: up to mbar, bar, kPa, MPa, psi	Y01	<b>√</b>					
Stainless steel tag plate (measuring point description) Max. 16 characters, specify in plain text: Y15:	Y15	✓	✓	<b>√</b>			
Measuring point text Max. 27 characters, specify in plain text: Y16:	Y16	✓	✓	✓			
Entry of HART address (TAG)	Y17	✓					
Max. 8 characters, specify in plain text: Y17:							
Setting of pressure indication in pressure units Specify in plain text (standard setting: bar): Y21: mbar, bar, kPa, MPa, psi, Note: The following pressure units can be selected:	Y21	•	✓	✓			
bar, mbar, mm H <sub>2</sub> O*), inH <sub>2</sub> O*), ftH <sub>2</sub> O*), mmHG, inHG, psi, Pa, kPa, MPa, g/cm <sup>2</sup> , kg/cm <sup>2</sup> , Torr, ATM or % *) ref. temperature 20 °C							
Setting of pressure indication in non-pressure units <sup>3</sup> ) 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. 5 characters)	Y22 + Y01	<b>√</b>					
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 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 <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) Preset values can only be changed over SIMATIC PDM.