

Selection and Ordering data		Order No.	
<b>SITRANS P pressure transmitters for absolute pressure, from the pressure series DS III HART</b>		<b>7 MF 4 2 3 3 -</b>	
<b>Measuring cell filling</b>	<b>Measuring cell cleaning</b>		
Silicone oil	Standard	1	
Inert liquid <sup>1)</sup>	Grease-free	3	
<b>Span</b>			
8.3 ... 250 mbar a	(0.12 ... 3.63 psi a)	D	
43 ... 1300 mbar a	(0.62 ... 18.9 psi a)	F	
0.16 ... 5 bar a	(2.32 ... 72.5 psi a)	G	
1 ... 30 bar a	(14.5 ... 435 psi a)	H	
<b>Wetted parts materials</b>			
Seal diaphragm	Process connection		
Stainless steel	Stainless steel	A	
Hastelloy	Stainless steel	B	
Hastelloy	Hastelloy	C	
Version for diaphragm seal <sup>2)3)4)</sup>		Y	
<b>Process connection</b>			
• Connection shank G 1/2 A to EN 837-1		0	
• Female thread 1/2-14 NPT		1	
• Oval flange made of stainless steel			
- Mounting thread 7/16-20 UNF to EN 61518		2	
- Mounting thread M10 to DIN 19213		3	
• Male thread M20 x 1,5		5	
• Male thread 1/2-14 NPT		6	
<b>Non-wetted parts materials</b>			
• Housing made of die-cast aluminium		0	
• Housing stainless steel precision casting <sup>5)</sup>		3	
<b>Version</b>			
• Standard version		1	
• International version, English label inscriptions, documentation in 5 languages on CD		2	
<b>Explosion protection</b>			
• Without		A	
• With ATEX, Type of protection:			
- "Intrinsic safety (EEx ia)"		B	
- "Explosion-proof (EEx d)" <sup>6)</sup>		D	
- "Intrinsic safety and explosion-proof enclosure (EEx ia + EEx d)" <sup>7)</sup>		P	
- "Ex nA/nL (zone 2)"		E	
- "Intrinsic safety, explosion-proof enclosure and dust explosion protection (EEx ia + EEx d + Zone 1D/2D)" <sup>7)</sup>		R	
• With FM + CSA, Type of protection:			
- "Intrinsic safety and explosion-proof (is + xp)" <sup>6)</sup>		NC	
<b>Electrical connection / cable entry</b>			
• Screwed gland Pg 13.5 <sup>8)</sup>		A	
• Screwed gland M20x1.5		B	
• Screwed gland 1/2-14 NPT		C	
• Han 7D plug (plastic housing) incl. mating connector <sup>8)</sup>		D	
• Plug M12 (metal) <sup>9)</sup>		F	
<b>Display</b>			
• Without (digital indicator hidden, setting: mA)		1	
• With visible digital indicator		6	
• With customer-specific digital indicator (setting as specified, Order code "Y21" or required)		7	

Power supply units see "SITRANS I power supply units and isolation amplifiers".

Factory-mounting of shut-off valves and valve manifolds see page 2/133.

Included in delivery of the device:

- Brief instructions (Leporello)
- CD-ROM with detailed documentation

- 1) For oxygen application, add Order code E10.
  - 2) Version 7MF4233-1DY... only up to max. span 200 mbar a (2.9 psi a)
  - 3) When the manufacture's certificate M (calibration certificate) has to be ordered for transmitters with diaphragm seals, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the total combination is certified here.
  - 4) Whe the acceptance test certificate 3.1 for transmitters with direct-connected diaphragm seals is ordered, this certificate must also be ordered with the corresponding seals.
  - 5) Not together with Electrical connection „Screwed gland Pg 13.5“ and „Han7D plug“.
  - 6) Without cable gland, with blanking plug.
  - 7) With enclosed cable gland EEx ia and blanking plug.
  - 8) Not together with type of protection "Explosion-proof" and type of protection "Ex nA".
  - 9) Not together with types of protection "Explosion-proof" or "Intrinsic safety and explosion-proof"
- F) Subject to export regulations AL: 91999, ECCN: N.



Selection and Ordering data	Order code			
<b>Further designs</b>		HART	PA	FF
Add "-Z" to Order No. and specify Order code.				
<b>Pressure transmitter with mounting bracket made of:</b>				
• Steel	A01	✓	✓	✓
• Stainless steel	A02	✓	✓	✓
<b>Plug</b>				
• Han 7D (metal, gray)	A30	✓		
• Han 8U (instead of Han 7D)	A31	✓		
<b>Cable sockets for M12 connectors (metal)</b>	A50	✓	✓	✓
<b>Rating plate inscription</b> (instead of German)				
• English	B11	✓	✓	✓
• French	B12	✓	✓	✓
• Spanish	B13	✓	✓	✓
• Italian	B14	✓	✓	✓
<b>English rating plate</b> Pressure units in inH <sub>2</sub> O or psi	B21	✓	✓	✓
<b>Manufacturer's test certificate M (calibration certificate)<sup>1)</sup></b> To DIN 55350, Part 18 and to ISO 8402	C11	✓	✓	✓
<b>Acceptance test certificate<sup>2)</sup></b> To EN 10204-3.1	C12	✓	✓	✓
<b>Factory certificate</b> To EN 10204-2.2	C14	✓	✓	✓
<b>"Functional Safety (SIL)" certificate</b>	C20	✓		
<b>"PROFIsafe" certificate and protocol</b>	C21		✓	
<b>Setting of upper limit of output signal to 22.0 mA</b>	D05	✓		
<b>Manufacturer's declaration acc. to NACE</b>	D07	✓	✓	✓
<b>Type of protection IP68</b> (not together with Han 7D / Han 8U plug, Pg 13.5 screwed gland)	D12	✓	✓	✓
<b>Digital indicator alongside the input keys</b> (only together with the devices 7MF4233-....0-.A..6 or -.A..7-Z, Y21 or Y22 + Y01).	D27	✓	✓	✓
<b>Supplied with oval flange</b> (1 item), PTFE packing and screws in thread of oval flange	D37	✓	✓	✓
<b>Use in or on zone 1D/2D</b> (only together with type of protection "Intrinsic safety (EEx ia)")	E01	✓	✓	✓
<b>Use on zone 0</b> (only together with type of protection "Intrinsic safety (EEx ia)")	E02	✓	✓	✓
<b>Oxygen application</b> (max. 160 bar a (2320 psi a) with oxygen measurement and inert liquid)	E10	✓	✓	✓
<b>Explosion-proof "Intrinsic safety" to INMETRO (Brazil)</b> (only for transmitter 7MF4...-.....-B..)	E25	✓	✓	✓
<b>Explosion-proof "Intrinsic safety" to NEPSI (China)</b> (only for transmitter 7MF4...-.....-B..)	E55	✓	✓	✓
<b>Explosion protection "Explosion-proof" to NEPSI (China)</b> (only for transmitter 7MF4...-.....-D..)	E56	✓	✓	✓
<b>Explosion-proof "Zone 2" to NEPSI (China)</b> (only for transmitter 7MF4...-.....-E..)	E57	✓	✓	✓

Selection and Ordering data	Order code			
<b>Additional data</b>		HART	PA	FF
Add "-Z" to Order No. and specify Order code.				
<b>Measuring range to be set</b> Specify in plain text (max. 5 digits): Y01: ... up to ... mbar, bar, kPa, MPa, psi	Y01	✓		
<b>Measuring point number (TAG No.)</b> Max. 16 characters, specify in plain text: Y15: .....	Y15	✓	✓	✓
<b>Measuring point text</b> Max. 27 characters, specify in plain text: Y16: .....	Y16	✓	✓	✓
<b>Entry of HART address (TAG)</b> Max. 8 characters, specify in plain text: Y17: .....	Y17	✓		
<b>Setting of pressure indication in pressure units</b> Specify in plain text (standard setting: mA): Y21: mbar, bar, kPa, MPa, psi, ... Note: The following pressure units can be selected: 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 oder % ) ref. temperature 20 °C	Y21	✓	✓	✓
<b>Setting of pressure indication in non-pressure units</b> Specify in plain text: Y22: ..... up to ..... l/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>Preset bus address</b> Specify in plain text: Y25: .....	Y25		✓	

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

✓ = available

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